

**UNIVERSITY OF NEBRASKA BOARD OF REGENTS
BOARD OF REGENTS MEETING
REGENTS' ITINERARY**

FRIDAY, APRIL 29, 2011

8:00 a.m.

BUSINESS AFFAIRS COMMITTEE [60 MINUTES]

Topic: Universitywide Budget Strategies

Strategic Framework Report: Faculty Merit Compensation [2-a-i]

Presenter: Chris Kabourek, Assistant Vice President for Business and Finance and Director of Budget

Topic: Legislative Update

Presenter: Ron Withem, Associate Vice President and Director of Governmental Relations

9:00 a.m. (approximate)

Break

9:10 a.m. (approximate)

ACADEMIC AFFAIRS COMMITTEE [45 MINUTES]

Topic: UNO Metropolitan Advantage Program (MAP) Expansion

Presenter: Chancellor John Christensen, University of Nebraska at Omaha

Topic: UNMC College of Public Health Tuition Proposal

Presenter: Ayman El-Mohandes, Dean, College of Public Health, University of Nebraska Medical Center

Topic: UNL Differential Tuition Proposals

Presenter: Chancellor Harvey Perlman, University of Nebraska-Lincoln

10:00 a.m.

Board of Regents Meeting

**AGENDA
THE BOARD OF REGENTS
OF THE UNIVERSITY OF NEBRASKA
Varner Hall
Friday, April 29, 2011
10:00 a.m.**

I. CALL TO ORDER

II. ROLL CALL

III. APPROVAL OF MINUTES AND RATIFICATION OF ACTIONS TAKEN ON MARCH 25, 2011

IV. KUDOS

*UNL, Karen Underwood, Project Manager, Office of Research, University of Nebraska-Lincoln
UNO, Katie Sup Rezac, Advisor, Division of Continuing Studies Degree Programs, University of Nebraska at Omaha*

*UNK, Jenny Holen, Office Associate Multi-Cultural Affairs, University of Nebraska at Kearney
UNMC, Curtis Phillips, ITS Customer Support Services, University of Nebraska Medical Center*

V. PUBLIC COMMENT

The Standing Rules of the Board provide that any person who gives 24 hours notice to the Corporation Secretary of the Board may speak to any item that is not on the agenda. In addition, any person may appear and address the Board of Regents on any item on the agenda for this meeting. Each person will be given up to five minutes to make his or her remarks. Public comment will be limited to a period of 30 minutes.

VI. RESOLUTIONS

VII. HEARINGS

VIII. UNIVERSITY CONSENT AGENDA

A. ACADEMIC AFFAIRS

1. President's Personnel Recommendation Addendum VIII-A-1

B. BUSINESS AFFAIRS

1. Approve the acceptance of the single audit of the University of Nebraska Addendum VIII-B-1
2. Approve the President to execute a contract relating to the University of Nebraska at Kearney's Food Service Contract for the ten years July 1, 2011 to June 30, 2021 Addendum VIII-B-2
3. Approve the purchase of a trailer mounted Magnetic Resonance Imaging System by the University of Nebraska Medical Center Addendum VIII-B-3

IX. UNIVERSITY ADMINISTRATIVE AGENDA

A. ACADEMIC AFFAIRS

1. Approve the University of Nebraska at Omaha Bachelor of Science in Public Health Addendum IX-A-1
2. Approval is requested to establish the Professional Certificate in Emergency Preparedness in the College of Public Health at the University of Nebraska Medical Center Addendum IX-A-2

3. Approval is requested to establish the Professional Certificate in Infectious Disease Epidemiology (IDE) in the College of Public Health at the University of Nebraska Medical Center Addendum IX-A-3
4. Approval is requested to create a Bachelor of Science degree program in Microbiology at the University of Nebraska-Lincoln Addendum IX-A-4

B. BUSINESS AFFAIRS

University of Nebraska

1. Approve the selection of the four year Architect/Engineer firms for term contracts from May 1, 2011, to April 30, 2015 Addendum IX-B-1
2. Approve the purchase of SciQuest E-Procurement Software and related implementation Addendum IX-B-2

University of Nebraska-Lincoln

3. Approve an early start to selected portions of the East Stadium Improvements at the University of Nebraska-Lincoln Addendum IX-B-3
4. Approve the Fund B University Program and Facilities Fees (UPFF) 2011-12 Allocation for the University of Nebraska-Lincoln Addendum IX-B-4

University of Nebraska at Omaha

5. Approve the Fund B, University Program and Facilities Fees (UPFF) 2011-12 Allocation for the University of Nebraska at Omaha Addendum IX-B-5

University of Nebraska at Kearney

6. Approve the Fund B, University Program and Facilities Fee (UPFF) 2010-11 Allocation for the University of Nebraska at Kearney Addendum IX-B-6

University of Nebraska Medical Center

7. Approve the Fund B, University Program and Facilities Fee (UPFF) 2011-12 Allocation for the University of Nebraska Medical Center Addendum IX-B-7
8. Approve the attached Resolution relating to the Truhlsen Eye Institute Project at the University of Nebraska Medical Center which (1) approves the issuance of not to exceed \$20,400,000 principal amount of Lease Rental Revenue Bonds, Series 2011 (UNMC Eye Institute Project) by The University Nebraska Facilities Corporation pursuant to a Trust Indenture, and (2) authorizes the execution and delivery of a Site Lease, if appropriate, Lease-Purchase Agreement, a Continuing Disclosure Agreement, a Tax Compliance Agreement, an Inducement Letter and a Preliminary Official Statement in connection with the sale of such Series 2011 Bonds, (3) authorizes the sale of such Series 2011 Bonds at a negotiated sale pursuant to a Bond Purchase Agreement and authorizes the Vice President for Business and Finance to determine interest rates (not to exceed a true interest cost of 4.00%), principal amounts, principal maturities and redemption provisions of such Series 2011 Bonds, and (4) approves the preparation and use of a final Official Statement Addendum IX-B-8

C. FOR INFORMATION ONLY

1. University of Nebraska Strategic Planning Framework Addendum X-C-1
2. University of Nebraska Strategic Framework Accountability Measures Addendum X-C-2
3. Calendar of establishing and reporting accountability measures Addendum X-C-3
4. University of Nebraska Strategic Dashboard Indicators Addendum X-C-4
5. Board of Regents agenda items related to the University of Nebraska Strategic Framework Addendum X-C-5

D. REPORTS

1. Laboratory, Student, and Miscellaneous Fees for 2011-2012 Addendum IX-D-1
2. Revisions to the rules and regulations for faculty and student self-government organizations Addendum IX-D-2

3. Change the name of the UNL College of Law L.L.M. degree program in Space and Telecommunications Law to Space, Cyber and Telecommunications Law Addendum IX-D-3
4. Bids and Contracts Addendum IX-D-4
5. Intermediate Design reports – Truhlsen Eye Institute and Eppley Cancer Institute Addendum IX-D-5
6. Naming of men’s basketball practice court the “Bus Whitehead Court” at the University of Nebraska-Lincoln Addendum IX-D-6
7. Naming of areas in Mammel Hall at the University of Nebraska at Omaha Addendum IX-D-7
8. Licensure report Addendum IX-D-8
9. Strategic Framework report on Entrepreneurship Addendum IX-D-9
10. Strategic Framework report on Workforce Opportunities and Academic Program Alignment Addendum IX-D-10

X. ADDITIONAL BUSINESS

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University of Nebraska-Lincoln

New Appointment

Timothy Wei, Dean (Special) College of Engineering, Professor (Continuous) Mechanical Engineering; effective 06/01/2011, \$275,000, FY, 1.00 FTE. Salary includes College of Engineering Professorship for \$15,000.

University Administration

Adjustment

Carmen K. Maurer, Interim Corporation Secretary (Special), Associate General Counsel (Special), \$133,357 FY, (includes \$124,357 FY base salary and \$750 stipend per month) 1.0 FTE. Add Interim Corporation Secretary title and \$750 stipend per month effective 04/06/2011 until permanent replacement is hired.

University of Nebraska Medical Center

Adjustment

Jennifer L. Larsen, Vice Chancellor for Research (Special), Office of the Vice Chancellor for Research; Professor (Continuous), Internal Medicine, and Louise and Morton Degen Professor of Internal Medicine (Special), College of Medicine; effective 07/01/2011, \$270,000 FY, 1.00 FTE. Add title of Vice Chancellor for Research. End title of Associate Vice Chancellor for Clinical Research. Change salary from \$208,800 (including \$11,000 administrative stipend).

TO: The Board of Regents Addendum VIII-B-1
Business Affairs

MEETING DATE: April 29, 2011

SUBJECT: Financial Statements and related Auditors' Report for the University of Nebraska

RECOMMENDED ACTION: Approve the acceptance of the single audit of the University of Nebraska.

PREVIOUS ACTION: January 28, 2011 – The Board approved the acceptance of the Basic Financial Statements of the University of Nebraska.

EXPLANATION: Approval of this item will accept the following audit of the University of Nebraska for the year ended June 30, 2010:
Single Audit of Federal Funds under the OMB Circular A-133
These statements have been reviewed and accepted by the Audit Committee.
Members of the public and news media may obtain a copy of the report in the Offices of the University Corporation Secretary or the Vice President for Business & Finance, 3835 Holdrege Street, Lincoln, Nebraska 68583, between the hours of 8:00 a.m. and 5:00 p.m., Monday through Friday, except University holidays.

SPONSORS: David E. Lechner
Vice President for Business and Finance
James B. Milliken
President

RECOMMENDED: Jim McClurg, Chair
Audit Committee

DATE: April 7, 2011

TO: The Board of Regents Addendum VIII-B-2

Business Affairs

MEETING DATE: April 29, 2011

SUBJECT: University of Nebraska at Kearney Dining Services Contract

RECOMMENDED ACTION: Approve the President to execute a contract relating to the University of Nebraska at Kearney's Food Service Contract for the ten years July 1, 2011 to June 30, 2021.

PREVIOUS ACTION: April 24, 2004 – the Board approved the University of Nebraska at Kearney's food service contract with Chartwells for the seven year period from July 1, 2004 to June 30, 2011.

EXPLANATION: A Request for Proposal was issued on December 23, 2010. As has been the practice of the University in awarding service contracts where compensation or other consideration is received by the campuses, a three phase procurement process was followed. The phased process is designed to obtain a market-competitive package and control costs while simultaneously obtaining the optimal level of service and support for the students, faculty and staff of the campus.

From responses received, Chartwells was the most responsive respondent based on a multitude of elements identified by UNK selection committee members. The contract would commence on July 1, 2011 for a period of 10 years with option of two additional five-year extensions.

Highlights are as follows (consideration paid to UNK):

- \$0 - \$300,000 gross sales 10%
- \$300,001 - \$500,000 gross sales 15%
- \$500,001 and Above 17%
- \$4,129,520 for renovation and remodeling of the dining facilities
 - \$250,000 in year two for technology upgrades
 - \$250,000 corporate scholarship gift to University Foundation
 - \$100,000 annual facilities license fund
 - \$200,000 annual facilities enhancement fund
 - \$10,000 annual scholarship gift to University Foundation
 - \$21,890 annual allowance for pre-season student meals
 - \$80,000 annual allowance for administrative catering support
 - \$25,000 annual allowance for student catering support

The highlights are in addition to the provision of high quality food service to the students and faculty at competitive rates.

While the essential elements of the contract have been agreed-upon, the contract is not final. As the renovation and remodeling must commence soon and be complete before the start of the fall semester, Board approval now versus the June meeting is critical. Accordingly, this item, if approved, will authorize President Milliken to execute the contract

once the Office of the General Counsel is satisfied with the form of contract.

The proposed award has been reviewed by and is recommended for approval by the Business Affairs Committee.

SPONSOR: Barbara L. Johnson
Vice Chancellor for Business and Finance

RECOMMENDED: Douglas A. Kristensen, Chancellor
University of Nebraska at Kearney

DATE: April 6, 2011

TO: The Board of Regents Addendum VIII-B-3
Business Affairs

MEETING DATE: April 29, 2011

SUBJECT: Purchase of a trailer mounted Magnetic Resonance Imaging System by the University of Nebraska Medical Center in Omaha (UNMC).

RECOMMENDED ACTION: Approve the purchase of a trailer mounted Magnetic Resonance Imaging System by the University of Nebraska Medical Center.

PREVIOUS ACTION: None.

EXPLANATION: The proposed equipment will be used for funded research by the Department of Cardiology in the UNMC College of Medicine, with expanded usage for research in neurological diseases, cancer and other fields. A Request for Proposal was sent to four Magnetic Resonance Imaging unit manufacturers, Toshiba, Siemens, GE and Philips Healthcare. Three bid proposals were received, and after evaluation Philips Healthcare was the only vendor able to provide the required equipment in the needed configuration and in the time allowable to meet the needs of an active NIH grant.

PROJECT COST: \$1,675,000

SOURCE OF FUNDS: Private Donations

SPONSOR: Donald S. Leuenberger
Vice Chancellor for Business & Finance

RECOMMENDED: Harold M. Maurer, Chancellor
University of Nebraska Medical Center

DATE: April 11, 2011

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TO: The Board of Regents Addendum IX-A-1

Academic Affairs

MEETING DATE: April 29, 2011

SUBJECT: Approve the University of Nebraska at Omaha (UNO) Bachelor of Science in Public Health

RECOMMENDED ACTION: Approve the University of Nebraska at Omaha (UNO) Bachelor of Science in Public Health

PREVIOUS ACTION: None

EXPLANATION: The proposed B.S. in Public Health in the School of Health, Physical Education and Recreation at UNO is a degree program designed to enable students from Nebraska and the region to develop competencies necessary to function in entry level positions in public health. They will fill positions in: public health departments; voluntary health agencies such as the American Cancer Society, the American Lung Association; community health centers; outreach programs from hospitals and other medical facilities; and with non-governmental community based programs. They will have developed basic competencies in health education, health policy, health administration, and leadership. Many of the new health departments in Nebraska are staffed by individuals who have no background in public health. This program will help to address that void by providing a pool of graduates who have been professionally prepared.

This program is also designed to be an excellent choice for students planning to continue their education beyond the bachelor's degree to a Masters in Public Health or a Doctorate in Public Health, advanced degrees offered by the College of Public Health at the University of Nebraska Medical Center. The coursework related to this degree program will provide the students with a strong and broad base from which to choose a more specific topical masters or doctoral program in the field of Public Health.

The proposed B.S. in Public Health is the only bachelor's degree in public health offered in the state of Nebraska.

No new resources are required to offer these programs. Existing resources are sufficient to offer the program.

This proposal has been reviewed by the Council of Academic Officers.

PROJECT COST: \$380,051

SOURCE OF FUNDS: Reallocation of Existing College Funds

SPONSORS:

John Christensen, Chancellor
University of Nebraska Omaha

Linda R. Pratt, Executive Vice President and Provost
University of Nebraska

RECOMMENDED:

James B. Milliken, President
University of Nebraska

DATE:

April 14, 2011

Degree Proposal

For a BS in Public Health

Descriptive Information

- Name of Institution: University of Nebraska at Omaha
- Major: Public Health
- Bachelors of Science (BS)
- Other program in this field offered by this institution: None
- CIP Code: 51.2201
- Administrative Units for the Program: Health Education Program in School of Health, Physical Education and Recreation in the College of Education
- Proposed Delivery Site: On the campus of the University of Nebraska at Omaha
- Date Approved by Governing Board:
- Proposed Date the Program will be Initiated: August 2011

1. Description and Purpose of the Proposed Program:

The proposed BS in Public Health in the School of Health, Physical Education and Recreation at UNO is a degree program designed to enable students from Nebraska and the region to develop competencies necessary to function in entry level positions in public health. They will fill positions in: public health departments (of which there are many newly developed ones in Nebraska – see #4 below); voluntary health agencies such as the American Cancer Society, the American Lung Association; community health centers; outreach programs from hospitals and other medical facilities; and with non-governmental community based programs. They will have developed basic competencies in health education, health policy, health administration, and leadership.

Many of the new health departments in Nebraska are staffed by individuals who have no background in public health. This program will help to address that void by providing a pool of graduates who have been professionally prepared.

This program is also designed to be an excellent choice for students planning to continue their education beyond the bachelor's degree to a Masters in Public Health or a Doctorate in Public Health, advanced degrees offered by the College of Public Health at the University of Nebraska Medical Center. The coursework related to this degree program will provide the students with a strong and broad base from which to choose a more specific topical masters or doctoral program in the field of Public Health.

The proposed BS in Public Health is the only bachelor's degree in public health offered in the state of Nebraska. The closest bachelor's degree in public health that we could find is located at Indiana University, Bloomington. We could not find a bachelors degree in public health offered in any state contiguous to Nebraska.

2. Program of Study:

Admission requirements for the BS in Public Health are the same as admission to the University of Nebraska at Omaha. Once students are admitted to the BS in Public Health they will be in the College of Education and will be required to maintain a cumulative college GPA of 2.5/4.0 scale and grades of C or better in the public health core courses to remain in good standing in the College of Education.

The Curriculum of the BS in Public Health at the University of Nebraska at Omaha is heavily invested in the School of Health Physical Education and Recreation and the College of Education at UNO and aligns with the mission, vision and values of these academic units.

The 120 credit hour curriculum is composed of four component parts. They include: A.) The University General Education Requirements, B.) The Public Health Program Requirements That Can Meet General Education Requirements, C.) the Public Health Core Courses, and D.) The Complementary Electives. The program of study includes 41-47 hours of general education requirements, 17 hours of public health program requirements that also meet general education requirements, 54 hours of public health core requirements, and complementary electives to meet the 120 credit hours for degree completion. The Public Health Core is larger than a normal undergraduate core because public health is a broad area of study. We are providing our students with the basic courses needed to understand the breadth of public health and provide them with the skills necessary to enter the public health workforce as a generalist or the background necessary to choose a specialization for the MPH degree available at UNMC.

A. University General Education Requirements (41-47 credit hours)

Fundamental Academic Skills (15 hours)

English 1150 (3 credit hours)

English 1160 (3 credit hours)

Math 1310 (3 credit hours)

Public Speaking 1120, 2120 (3 credit hours)

Additional three hour writing course relevant to student's college/major

Distribution Requirements (26 credit hours)

Natural & Physical Sciences (minimum 8 credit hours from at least two different disciplines and with at least one laboratory course)

Humanities and Fine Arts (9 credit hours taken from at least two different disciplines/curriculum designations)

Social and Behavioral Sciences (9 credit hours taken from at least two different disciplines/curriculum designations)

Diversity (6 credit hours)

Diversity in the U.S. (minimum 3 credit hours)

Global Diversity (minimum 3 credit hours)

B. Public Health Program Requirements That Can Meet General Education Requirements
(17credit hours)

UNO is in process in approving courses for the general education requirements. Some of these courses have been approved. Others are not yet approved. If any of these courses are not approved we will remove them from this category and they will become part of the required core.

- SPCH 2410 Small Group Communication (3 credit hours)
- PE 2880 Basic Physiology and Anatomy for HPER (5 credit hours)
- BIOL 1330 Environmental Biology (3 credit hours)
- JOUR 1500 Introduction to Mass Communication (3 credit hours)
- HED 4700 Women's Health and Issues of Diversity (3 credit hours)

C. Required Public Health Core Courses (54 Cr.)

- HED 1500 Foundations in Public Health - 3Cr.
- HED 4280 Social Marketing in Public Health - 3 Cr. (New)
- HED 4880 Health Policy - 3 Cr. (New)
- HED 4050 Research Design in Public Health - 3 Cr. (New)
- PA 2170 Introduction to Public Administration – 3Cr.
- HED 4650 Global Health – 3 Cr. (New)
- HED 3600 Community Health – 3 Cr.
- PE 3900 Motivation for Physical Activity 3 Cr.
- HED 4420 Public Health Informatics – 3 Cr. (New)
- HED 4000 Methods and Materials 3 Cr.
- HED 4040 Epidemiology and Prevention of Disease (Revised) 3 Cr.
- HED 4550 Health Aspects of Aging – 3 Cr.
- HED 4060 School Health Programs – 3 Cr.
- HED 4400 Health Literacy - 3 Cr. (New)
- HED 4950 Public Health Leadership and Advocacy – 3 Cr.
- HED 4960 Public Health Planning and Organization – 3 Cr.
- HED 4990 Internship in Public Health – 6 Cr.

D. Electives (as needed to meet 120 hour minimum for degree)

Complementary Electives

General Electives

Students may choose elective courses to meet the 120 credit hour minimum for degree completion. Approved courses include: all Allied Health courses and selected courses with a prefix of BIOL, ENV, HED, HPER, JOUR, MGMT, NAMS, PA, PE, PSCI, RLS, and SOC. Please check with an academic advisor.

3. Faculty Staff, and other Resources:

The College of Education and the School of Health, Physical Education, & Recreation have been supportive in providing faculty, staff, facilities, and equipment for the Health Education Program. The staffing not only meets academic requirements for this proposed degree, but also addresses the needs for the current graduate degree in Health Education and service courses provided to the general student population of UNO. The Health Education faculty teaching advanced courses in the joint MPH

program will be available to teach the courses in the BS in Public Health as UNO transitions out of the MPH. Additionally, full time faculty from other programs in the School of HPER teach courses required for this degree. Part time faculty teaching courses required for the degree are a mix of individuals employed full time at UNO in other areas (i.e., student health), employed full time at UNMC (i.e., Child Health, College of Public Health, Donate Life Services) or employed in the community. Many have consistently taught courses for the School of HPER for many years. Graduate assistants from other graduate programs in Health Education assist with courses and may teach a course during their second year. A list of faculty teaching courses in this proposed degree follows:

Full Time HED Faculty:

Jason Coleman, PhD
David Corbin, PhD
Richard Stacy, PhD

Full Time HPER Faculty Teaching Courses in the Program

Sara Myers, ABD
John Noble, PhD

Full Time UNO and UNMC Employees Teaching Courses in the Program

Marcia Adler
Katie Brandert
Brandon Grimm

Part Time Faculty:

Rita Correll
Connie Marinovic
Michelle Merrill
Rebecca Jackson
Denise Kreski
Jeff Kuhr
Douglas Wagner
Mary Watson

Graduate Assistants:

Aja Kniep
Shandalee Ramet

Physical Facilities/ Equipment.

Classrooms for the BS in Public Health program are located in the Health, Physical Education and Recreation building on the UNO campus. The 215,000 square foot building serves as the major facility supporting the programs in the School of HPER. Besides classrooms, the HPER building boasts an exercise physiology lab, a 50 meter indoor pool, a biomechanics lab, a movement analysis lab, motor development lab and health education lab as well as numerous gymnasiums and activity areas. Classrooms in the HPER building are scheduled by the School of HPER. All classrooms contain equipment and technology necessary for didactic instruction.

Instructional Aids

All academic courses in the School of HPER utilize instructional aides and equipment. Numerous training aids and models are available for student and instructor use. Computer access is readily available for both students and faculty. All classrooms used for Health Education courses in the HPER building are “high tech” classrooms, meaning they have computers and LCD projectors, VCR, televisions, internet access, and digital overhead projectors (ELMO). The College of Education and the School of HPER place a high priority on providing their programs with the latest equipment, training aids and supplies for educational purposes. Therefore, nearly all Health Education program equipment and supply requests have been approved and purchased.

All students in Health Education courses have equal access to video, software, models, specimens, health assessment equipment, and demonstration aids through faculty and staff. Software programs used in the Health Education courses have been loaded on computers in the HPER computer laboratory. Annual equipment and supply requests are made to the director of the School of HPER in the fall semester. At the end of the budget year allocations are made to each program respectively through the School of HPER and College of Education’s budget.

Budget

The School of HPER operating budget is adequate for the current and projected programs. The expenses for this proposed degree come from the faculty, graduate assistants and support staff whom are required to teach the courses as well as the standard operating costs. We currently have three full time faculty in the HED program which will teach these courses. We currently average 35 part-time faculty per year teaching HED related courses. We have two graduate assistants assigned to the HED program. These graduate assistants will continue to provide support for the faculty teaching HED courses. Current support staff for the School of HPER are adequate to support this degree.

Revenue sources for the for the BS in Public Health will come from reallocation of resources formerly used for the joint MPH degree which is now fully supported by the College of Public Health at UNMC. We anticipate we will attract additional students with this degree which will result in additional tuition and fees over time.

4. Evidence of Need and Demand; Enrollment Projections.

- **Need for the Program**

According to *A Strategic Plan to Strengthen and Transform Public Health in Nebraska: A Revision* (2008) The demand for public health professionals in Nebraska has increased dramatically over the past ten years and this demand will continue for many years in the future. The Bureau of Labor Statistics indicates the demand for Medical and Health Services Managers and Health Education Workers is growing faster

than average and the job outlook is good or favorable. Public Health advocates and the Nebraska Unicameral wisely saw the need to use the Tobacco Settlement dollars to enhance the public health infrastructure across the state. As a result all counties in the state are served by a local health department. This proposed degree will help fill the need for qualified individuals to work in those local health departments.

Some of the major concerns expressed in this document include: (1) inadequate number of workers; (2) future shortage of experienced workers because a large number of current workers are approaching retirement age, without enough replacements prepared; (3) workers insufficiently prepared for their jobs through education and training, relying more on experience and on-the-job trial and error. A study conducted by the Association of Schools of Public Health (2008) has estimated that by the year 2020 there will be a need 250,000 new public health professionals in the U.S. In Nebraska, over fifty percent of state level public health workers are age 50 and above, which indicates that the state will lose a large number of experienced workers to retirement in the not too distant future. (Nebraska Department of Health and Human Services, 2007). Again this proposed degree will help mitigate these circumstances.

A bachelor's degree will prepare our students for an entry level in public health and/or position them for graduate work in public health. Although bachelor's degrees are not as commonplace as masters of public health programs, they are offered by universities such as: University of Arizona and Indiana University. New York University inaugurated a BS in public health in the fall of 2010. There are no BS in Public Health Programs available in Nebraska or its bordering states.

- **Employment and Educational Advancement Opportunities for Graduates:**

The College of Public Health at the University of Nebraska Medical Center offers a Master of Public Health with five concentrations (Public Health Administration, Community Health Education, Epidemiology, Biostatistics, and Environmental, Agricultural, and Occupational Health). Three doctoral programs are also available in Health Promotion and Disease Prevention Research, Health Services Research, Administration and Policy and Environmental Health, Occupational Health and Toxicology are also available.

- **Number of Students Expected to Enroll in the Program and Basis for the Estimate**

The number of students expected to enroll in the program is 15 per year initially with greater numbers being interested after the program is initiated and information about the program is spread. The School of HPER undergraduate advising office receives five to seven inquires each year from students interested in an undergraduate degree in public health. The MPH office at UNMC regularly receives inquires about an undergraduate degree in public health. There are currently courses offered in the Community Health Education curriculum that attract many non-majors who have an interest in public health. These courses include Community Health, Prevention and Control of Disease, General Safety and many others. The College of Public Health is

targeting an increase in admissions to at least 100 students per year. This will provide a direct opportunity for more students to access a well recognized graduate program locally. Discussion is also underway for an integrated BS to MPH program where senior level undergraduates can be admitted to the MPH program and complete some of the required coursework as undergraduates, allowing them to complete the MPH at in the COPH at UNMC one year after the BS. This program will help attract additional undergraduate students.

- **Minimum Number of Students Required to Make this Program Viable**

Five to 10 students each year will provide a minimum number to make the program viable. Considerably more students are expected.

5. Partnerships with Business

The Health Education Program and the School of Health, Physical Education and Recreation have developed strong partnerships with local businesses and agencies that have a public health focus. We have provided interns and capstone students to a variety of local business. Faculty in the Health Education Program have a long history of providing service to community businesses and agencies with need for expertise in a variety of areas from programming to grant and contract development .

American Cancer Society
American Lung Association
Lead Safe Omaha
Omaha Asthma Alliance
Nebraska Department of Health and Human Services
Con Agra
Chicano Awareness Center
Charles Drew Health Center
Douglas County Health Department
Millard Public Schools
Union Pacific Railroad
American Heart Association
Lincoln Lancaster Health Department
Metropolitan Omaha Tobacco Action Coalition
American Diabetes Association
Diabetes Education Center of the Midlands
Planned Parenthood of Omaha and Council Bluffs
Council Bluffs (Iowa) Health Department
Wellness Council of the Midlands
University of Nebraska at Omaha Student Health Services
Girls' Inc.
Boys and Girls club of Omaha
American Red Cross
Safety and Health Council of Greater Omaha

Maternity Services of Midlands Hospital
Public Health Solutions Health Department
Two Rivers Health Department
Four Corners Health Department

6. Collaboration within the University

Faculty and students will collaborate with other entities on campus in teaching, research, and service. The nature of the Public Health curriculum lends itself to interaction with faculty, staff, and students in many departments of the College of Public Affairs and Community Service (especially Gerontology and Social Work), the Environmental Science Faculty, other faculty in the College of Education, and of course faculty in all departments of the College of Public Health at the University of Nebraska Medical Center. Currently, two faculty from the Health Education Program and three additional faculty from the School of Health, Physical Education and Recreation hold appointments in the College of Public Health at the University of Nebraska Medical Center. Each of the five faculty members either teaches courses in the MPH program, collaborates on research grants, or provides departmental service to the College of Public Health.

7. Collaboration with Higher Education Institutions and Agencies External to the University

The faculty in the Health Education program has a long history of collaboration with virtually all health related agencies in the Omaha area and the state of Nebraska as well. These collaborations will be magnified when the Public Health degree is implemented. The types of collaborations include grant writing, serving on joint task forces and coalitions, engaging in community based participatory research, consulting, placing students for internships, and advocacy. One faculty member taught classes at Creighton University as an emergency fill in and collaborated with Creighton University faculty members and students in a diabetes project at the Omaha Reservation at Macy.

8. Centrality to Role and Mission of the Institution

The UNO Mission: As Nebraska's metropolitan University, UNO is characterized by its strong academic foundations and creative community relationships that transform and improve the lives of constituents, the region, and the nation. The proposed BS in Public Health will promote the mission of the University by striving to attain several objectives identified in its mission statement.

“Curricula will provide a strong academic foundation.”

The BS in Public Health will provide a strong foundation for students to transition into the job market or be prepared for the Masters in Public Health degree.

“UNO students will measurably benefit from the opportunities in and interaction with the metropolitan environment.”

Students in this program will have access to the largest and most complex health department in the state. They will also have access to the resources of the UNMC College of Public Health. They will also have opportunities for clinical and training

opportunities in the many and varied companies and agencies located in metropolitan Omaha.

“Increase the percentage of UNO enrollments in comparison with all higher education enrollments in the metropolitan area.”

This will be the only BS degree in Public Health in the metropolitan area. Students interested in public health will be able to select this program rather than go out of the area and out of the state.

“Create a learning environment incorporating outreach, cooperative, and community engagement activities into academic programs for all students.”

Many of the courses in the BS in Public Health will have a service learning or outreach component that will help the students develop with their public health environment.

“Increase its capacity to meet the continuing educational, training, enrichment, and service needs of its varied constituencies”

Students graduating from this program will provide a public health workforce for the Omaha area and the State of Nebraska.

9. Consistency with the University of Nebraska Strategic Framework

The proposed BS in Public Health will promote the University of Nebraska Strategic Framework by striving to attain several objectives identified in its mission statement.

- “Increase enrollment, consistent with quality imperatives, to serve Nebraska’s goals for increased educational attainment.”

Adding this attractive bachelor’s degree will provide the high school graduates from Nebraska with a high quality degree program to attract them to UNO.

- “Campuses are encouraged to collaborate to achieve overall university goals.”

UNMC College of Public Health is interested in BS to MPH joint degree programs in at least two areas.

- “Increase enrollment of nonresident undergraduate students at UNL, UNO and UNK.”

With a small number of BS degrees in Public Health in the region this program should be attractive to students from outside the State of Nebraska.

- “Analyze areas of future workforce demand, including job and self-employment opportunities in non-growth rural communities and economically disadvantaged

urban areas, and strengthen or develop curricula and programs appropriate to the university in alignment with those areas.”

This curriculum will add a new dimension to the opportunity for students to get a degree and pursue job opportunities in public health in both urban and rural environments.

10. Avoidance of Unnecessary Duplication

There are no bachelor degree programs in Public Health in the State of Nebraska. The proposed program will be the only undergraduate degree program in Public Health in the State of Nebraska. Therefore there is no duplication.

11. Consistency with the Comprehensive Statewide Plan for Postsecondary Education:

The BS degree in Public Health matches the statewide goals for education in the following ways:

- Meeting the needs of students: This student-centered bachelor’s degree program will emphasize matching the specific career outcomes desired by each student. The program will have core classes but will also allow for considerable selection of elective classes to meet professional goals formally established early in the program.
- Meeting the needs of the state: This bachelor’s degree in Public Health is aimed at meeting the state and regional need for those with basic training in the discipline. Persons trained in this program will interface with health professionals in local, state, and regional health agencies. Their state of training will enhance their ability to influence the quality of health information provided by health agencies and the quality of health care provided in the work place.
- Meeting needs by building exemplary institutions: This proposed program enhances the mission of the University of Nebraska at Omaha in contributing to the health needs of the state. The effects of the program will be demonstrated through improved education of the public to meet the significant health challenges imposed by physical inactivity. Increasing the ability of the university to affect overall health of the population will elevate the reputation of the university.
- Meeting educational needs through partnerships and collaboration: Numerous collaborations were cited in a previous section. This bachelor’s degree program will be highly integrated with various sectors of the community. The specializations offered in the program largely have as their primary focus the work place, hospitals, and universities. Consequently, the students will come from a wide array of work sites and organizations. The topics they address for

training in research, for example, will typically relate to a specific occupation and site. Students trained in this program, therefore will be able to deliver the highest possible service to a broad segment of institutions and work places in the state.

- Facilities planning to meet educational needs: Existing facilities in the School of HPER and other sites on the UNO campus are adequate to meet the needs of the proposed program. Students will also have access to facilities on the UNMC campus and collaborating organizations identified elsewhere in this proposal.

TABLE 1: PROJECTED EXPENSES - BACHELOR OF SCIENCE IN PUBLIC HEALTH DEGREE PROPOSAL

Personnel	(FY 2010) Year 1		(FY 2011) Year 2		(FY 2012) Year 3		(FY 2013) Year 4		(FY 2014) Year 5		Total	
	FTE	Cost	FTE	Cost	FTE	Cost	FTE	Cost	FTE	Cost	FTE	Cost
Faculty ¹	11.75	\$294,496	11.75	\$303,331	11.75	\$312,431	11.75	\$321,804	11.75	\$331,458	11.75	\$1,563,520
Professional ²	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
Graduate assistants ³	2	\$23,842	2	\$24,557	2	\$25,294	2	\$26,053	2	\$26,835	2	\$126,581
Support staff ⁴	0.4	\$11,100	0.4	\$11,433	0.4	\$11,776	0.4	\$12,129	0.4	\$12,493	0.4	\$58,931
Subtotal	14.15	\$329,438	14.15	\$339,321	14.15	\$349,501	14.15	\$359,986	14.15	\$370,786	14.15	\$1,749,032
Operating												
General Operating ⁵		\$8,765		\$8,765		\$8,765		\$8,765		\$8,765		\$43,825
Equipment ⁶		\$500		\$500		\$500		\$500		\$500		\$2,500
New or renovated space ⁷		\$0		\$0		\$0		\$0		\$0		\$0
Library/Information Resources ⁸		\$0		\$0		\$0		\$0		\$0		\$0
Other ⁹		\$0		\$0		\$0		\$0		\$0		\$0
Subtotal		\$9,265		\$9,265		\$9,265		\$9,265		\$9,265		\$46,325
Total Expenses	14.15	\$338,703.00	14.15	\$348,586.00	14.15	\$358,766.00	14.15	\$369,251.00	14.15	\$380,051.00	14.15	\$1,795,357.00

¹ The proposed degree would not require any additional faculty; we currently have 3 full time HED faculty and average 35 part time HED faculty, @ \$2500 per course, on staff which meets the needs of the proposed academic degree. Years 2-5 assume a 3% raise in base salary per year.

² The proposed degree would not require any professional staff.

³ The proposed degree would not require any new graduate assistants. The two graduate assistants serving the program would be sufficient for the proposed program.

⁴ The proposed degree would not require any additional support staff. HPER employs one administrative assistant (Rebecca Scronce) who provides approximately 0.25 FTE to the Health Education program (25% of her base salary for 2009-10=\$5,850.00) and one professional advisor (Molly Handke) who provides approximately .15 of her time to advising HED students (15% of her base salary for 2009-10 = 5250. Therefore, the total expenditure is 0.40 FTE, or \$11,100.00 when calculated from each staff's salary. The staffing currently in place for the HPER Department and College of Education meet the needs of the degree program. Years 2-5 assume a 3% raise in base salary per year.

⁵ The current budget allowances for these expenses via the College of Education are sufficient for our needs. No additional funds are required to support this proposed academic degree. Expenditures represent approximately 20% of the total operating budget for the School of Health, Physical Education, and Recreation (as our faculty represent approximately 20% of the department in each area). There has been no increase in general operating budget for the past several years, therefore we anticipate no additional budget allocations for FY 2011-14.

⁶ The current budget allowances for these expenses via the College of Education are sufficient for our needs. No additional equipment or supply expenses are required to support this proposed academic degree. Expenditures were calculated on the average allocation of equipment monies to the Health Education program over the past 4 years.

⁷ The current facilities (HPER classrooms for academic instruction) meet the needs of the proposed academic degree. No additional facilities are required. No increase in allocations are expected for FY 2011-14.

⁸ There are no necessary expenses for library or information resources.

⁹ There are no additional expenditures for this proposed academic degree.

NOTE: All items requiring explanation may be included on this page or in the proposal narrative.

TABLE 2: REVENUE SOURCES FOR PROJECTED EXPENSES - BACHELOR OF SCIENCE IN PUBLIC HEALTH

	FY(2010) Year 1	(FY2011) Year 2	(FY2012) Year 3	(FY2013) Year 4	(FY2014) Year 5	Total
Reallocation of Existing Funds ¹	\$338,703	\$348,586	\$358,766	\$369,251	\$380,051	\$1,795,357
Required New Public Funds ²	\$0	0	0	0	\$0	\$0
1. State Funds	\$0	0	0	0	0	\$0
2. Local Tax Funds (community colleges)	\$0	0	0	0	0	\$0
Tuition and Fees ³	\$0	\$58,800	\$91,727	\$125,973	\$161,587	\$438,087
Other Funding ⁴	\$0	\$0	\$0	\$0	\$0	\$0
1						\$0
2						\$0
3						\$0
Total Revenue ⁵	\$338,703	\$407,386	\$450,493	\$495,224	\$541,638	\$2,233,444

¹ The current College of Education funding for faculty, staff and operating is adequate to provide the BS in Public Health. Adjustments in assignments will allow all courses to be covered. Annual increases are projected increases in salaries.

² No additional public funds are required for this program, as it is currently fully-funded by the College of Education and we have no additional expenditures.

³ Calculated as 10 new full-time (12 credit hours) students per FY, multiplied by resident tuition and fees and increased 4% per year. We anticipate increasing enrollment and adding five additional students to the program every year, beginning in FY 2012. We believe the ability to offer this degree will increase interest in our Public Health program and increase applications each year.

⁴ There are no additional sources of funding required for this program.

⁵ **Revenues are expected to exceed expenses.**

NOTE: Where appropriate, show calculations and/or formulas that were used to project new revenue; e.g. number of new students projected multiplied by tuition and fees.

TO: The Board of Regents Addendum IX-A-2
Academic Affairs

MEETING DATE: April 29, 2011

SUBJECT: Establishment of the Professional Certificate in Emergency Preparedness

RECOMMENDED ACTION: Approval is requested to establish the Professional Certificate in Emergency Preparedness in the College of Public Health at the University of Nebraska Medical Center

PREVIOUS ACTION: April 16, 2010 – The Board approved the transfer of the Master of Public Health from the Graduate College to the College of Public Health
May 19, 2001 – The Board approved the Master of Public Health

EXPLANATION: The College of Public Health (CoPH) proposes the Professional Certificate in Emergency Preparedness as a direct response to the expressed need of the existing health professional workforce in Nebraska. This certificate is in full alignment with Section 3 of the University of Nebraska’s Strategic Planning Framework, to “play a critical role in building a talented, competitive workforce.” Ninety-five percent of the current public health workforce in the state has not received any formal training in public health. The region has witnessed a rapid expansion in departments of health (18) over the past few years, leading to a substantial need within the structure to expand and strengthen the basic skills and training of the existing workforce. The CoPH is best equipped to respond directly to this expressed need. This certificate will help fulfill the strategic goals in Section 3.h. by offering health professionals an opportunity to engage in professional training specific to their field, thereby enhancing their skills in serving the needs of the state population. The CoPH aims to offer this certificate both on-site and via distance learning technologies to facilitate access by an extended audience, which is aligned with Sections 1.d. and e. of the Strategic Planning Framework. No new courses are required to offer this certificate.

This proposal has been reviewed by the Council of Academic Officers.

PROJECT COST: \$38,809

SOURCE OF FUNDS: Reallocation of existing College of Public Health resources

SPONSORS: David Crouse, PhD
Interim Vice Chancellor for Academic Affairs
Harold M. Maurer, MD, Chancellor
University of Nebraska Medical Center
Linda R. Pratt
Executive Vice President and Provost

RECOMMENDED: James B. Milliken, President
University of Nebraska

DATE: April 14, 2011

Certificate in Emergency Preparedness

Sponsoring departments in the College of Public Health

Epidemiology
Health Promotion, Social and Behavioral Health

Date of Submission

January 1, 2011

Recommended Program Start Date

August 22, 2011

Certificate Title

Certificate in Emergency Preparedness

Executive Summary

The Center for Biopreparedness Education is located in the College of Public Health at the University of Nebraska Medical Center. The Center has been operational since 2002. The Center's mission is to enhance preparedness skills and knowledge in the areas of medical preparedness, first responder preparedness, public health preparedness, and business/industry preparedness through affordable, needs-based training; customized organizational assistance; and comprehensive resources. In 2002, in response to Federal and State initiatives to establish and improve the public health system's response to biological events, Nebraska Health and Human Services commissioned the state's two medical schools - Creighton University Medical Center and University of Nebraska Medical Center - to join forces to form The Center for Biopreparedness Education, which is under the direction of the Chiefs of the Infectious Disease Departments at both medical centers and a multi-agency consortium.

The next logical phase of organizational growth is the creation of a professional Certificate program in Emergency Preparedness, to complement the new and expanding College of Public Health. The Center's 8 years of experience in the design and development of educational material geared for the adult learner in addition to an extensive collection of educational material from past programs, positions it well to design, develop and deliver academic courses to students in the College of Public Health. As a regional leader in the field of Preparedness, the Center has already embarked on a variety of research projects, creating a specialized niche for students seeking academic mentors for further research.

A professional certificate program in Emergency Preparedness is the Center for Biopreparedness Education's newest product to be launched in the fall of 2011. The Center's eight year collection of educational material from past programs will serve as the basis for the design, development and delivery of emergency preparedness-related curricula. The Federal Department of Homeland Security's (DHS) core focus areas will form the structural basis for all course development and are as follows: Prevent, Protect, Respond and Recover.

Evidence of Need:

Introduction:

The United States is part of a global community responding to disasters that may be man-made (terrorism) or natural in origin. Although the response is often tailored to the event characteristics, basic concepts are common to all disasters. Given the changing landscape for a secure and prosperous nation, the citizens of this country look to experts in the fields of disaster and emergency preparedness for leadership and guidance in difficult times. A well prepared nation minimizes the impact of such disasters and recovers more quickly and effectively. Leadership that is well equipped with the knowledge and experience to respond to such events is lacking both globally and in this country. Research to establish evidence-based knowledge is also lacking. Academic institutions have a responsibility to fill this void and the University of Nebraska Medical Center's College of Public Health, already renowned for its expertise in Biopreparedness and Biosecurity is emerging as a leader in the endeavor.

Background:

All existing academic preparedness programs across the country were studied to determine the strengths and weaknesses of existing curricula. Needs assessment data were collected to determine the educational gaps that the Center would fill with its program structure and a curriculum outline was designed, using expertise from Center staff and faculty, in addition to regional experts in emergency preparedness content and delivery. Experience was drawn from the Center's piloted course in the fall of 2009 entitled: Epidemiology of Biopreparedness, Biosecurity and Emerging Infectious Diseases, which attracted 20 students from both Masters and PhD level programs

Program Description:

The product is a professional certificate program in Emergency Preparedness requiring 18 credits to complete. The Center's eight year repertoire of educational programs will serve as the basis for the design, development and delivery of emergency preparedness-related curricula. The Federal Department of Homeland Security's (DHS) core focus areas will form the structural basis for all course development and are as follows: Prevent, Protect, Respond and Recover.

The key preparedness content material will be structured and delivered through four (4) core courses based on the above essential core areas. The final products will be a professional Certificate in Emergency Preparedness -and an eventual Master of Science program.

Description of courses

Curriculum - The program requires completion of 18 credit hours. This can be accomplished in as few as two consecutive semesters (fall and spring) for full time students in this program. No new courses are required to offer this certificate.

Required Courses: CPH 550, CPH 631, CPH 553, and CPH 554

Select 2 courses from the following: CPH 504, CJUS 8800, and CPH 500

Required Courses (all courses are 3 credit hours)

CPH 550 – Emergency Preparedness: Prevention

CPH 631 – Emergency Preparedness: Protection

Semester offered

Fall

Fall

CPH 553 – Emergency Preparedness: Response	Spring
CPH 554 – Emergency Preparedness: Response and Recovery	Spring

Elective Courses

CPH 500 – Foundations of Public Health	Fall/Summer
CPH 504 – Epidemiology Theory & Applications	Fall/Spring
CJUS 8800 – Terrorism <i>(this is a UNO course subject to name and number changes)</i>	Summer (5 weeks)

Total credits: 18

Duration/Scheduling of the Program - The recommended duration for the certificate program is two academic semesters (fall and spring). All credits must be earned within a two year period. Extensions for good cause may be granted by permission of the Curriculum Committee.

Learning

Scholarship Requirements - to maintain good standing, students are required to maintain a grade point average of at least a B (3.00) in their program of study. A grade of C (2.00) may be accepted for no more than one course; receipt of two grades of C or any grade below C is not acceptable for credit and may result in dismissal from the program.

A student who fails to maintain a minimum grade point average of B (3.00) will automatically be on academic probation and may not continue his/her program of study without the permission of Curriculum Committee. In order to secure this permission, the student, in conjunction with his/her academic advisor, must submit a plan of remediation for approval to the Curriculum Committee at least two (2) calendar weeks prior to the next scheduled Curriculum Committee meeting (Instructions for Developing a Plan of Remediation for Academic Standing-see CoPH Student Handbook for more details). The Curriculum Committee will review the student’s status and plan of remediation. To continue in the certificate program, the student must remove the probationary status (i.e., return to an overall 3.00 or above grade point average) within the next twelve (12) months.

Need for Diverse Student Group

The certificate program in Emergency Preparedness will follow the UNMC guide for its student diversity, which promotes equal educational and employment opportunities in the academic and work environment. It shall not discriminate against students and employees, and campus visitors (for example, applicants for educational programs, employment applicants, volunteers, and vendors) based on race, age, color, disability, religion, sex, national origin, marital status, genetic information or Veteran status.

Market Analysis Summary

A 2005 public health workforce study in six different states concluded that several factors will influence the marketing of this program. The results cited the lack of advanced education as a barrier to upgrading staff and programs. Emergency response is a relatively new field, so an argument can be made that this program provides the opportunity for professionals in the field

to acquire advance education in a rapidly advancing arena. Lack of partnerships with local public health and emergency response agencies also contribute to a lack of collaboration between academic institutions and local agencies. Senior staff members in both public health and emergency management are being lost to retirement in a rapidly aging workforce, creating another opportunity for younger professionals to acquire the specialized advanced education provided by this program.

Marketing a program for a discipline that is relatively new will have both advantages and challenges. Professionals already in the field have learned through experience and are known to be actively interested in new educational opportunities at the continuing education level. Recruiting them to an advanced degree program will be a focus, as they can certainly appreciate the intricacies of the field and the increasing frequency of opportunities that advanced education will offer. Other professions and students completing undergraduate programs will be less familiar with such opportunities and will need to be apprised of a growing number of career fields that are emerging. Media coverage of both man-made (terrorism) and natural disasters have certainly made the response community more visible to the general population and should provide a baseline from which to start discussions.

The overall target audience for this academic program will be drawn from two arenas. The public health work force will comprise the largest pool of professionals from which to attract future students. Current undergraduate students will be the additional sector. Marketing approaches will differ between the two populations and strategies will need to be tailored to optimize access to prospective students and contain compelling evidence to support their decision to pursue this academic program.

Strategy and Implementation Summary

Marketing for students to enroll in the full program will be paramount to a successful beginning. Curriculum development is equally important. Four core courses and a strong list of selective (elective) courses is paramount to attracting and retaining students. Distance learning considerations are also important as the market for recruiting grows to a global scale.

Competitive Edge

The Center for Biopreparedness Education is a highly respected organization providing comprehensive programs across the state of Nebraska and throughout the region. Center educational programs have been recognized nationally with awards such as the Telly® Award for Innovative Educational Videos. Center staff have presented nationally at conferences that range from Emergency Management to specialized clinical venues. Invitations for training in international setting have also been attributed to the excellent reputation gained by the Center in the 8 years of operation.

This repertoire of educational material, coupled with advanced training in the principles of adult learning and engagement, has positioned the Center as a leader in Emergency Preparedness education. It has also provided a compilation of educational content from which to draw comprehensive academic curriculum.

Marketing Strategy

Currently practicing healthcare providers will comprise an important target audience in both rural and urban settings. Physicians, nurses, and other allied health professionals have the clinical background to appreciate the need for comprehensive education in this area. Hospital accrediting bodies have added Emergency Preparedness as a requirement for continued recognition and often make federal funding contingent on successful reviews. Many facilities have added Emergency Response personnel to accommodate this requirement. Business and industry has also recognized the importance of planning for emergencies in their own environment to ensure continuity of operations, and have consequently added positions to prepare their organizations accordingly.

Marketing to this group will be through continuing education venues. The Center conducts an annual Preparedness Symposia Series that will be the primary target for aggressive recruiting to the program. This conference series is attended by most current professionals in the Emergency Response roles. In Nebraska, few have advanced degrees as programs in this area are scarce. Other conferences attended by this audience will be pivotal to accessing these professionals and will be forums for exhibiting and promoting the program. Professional organizations for nurses, physicians and other allied health professions also welcome presentation for educational recruitment.

Equally important will be the strategies to attract new professionals to the field. As new career opportunities arise for professionals in Emergency Preparedness, it will be imperative to recruit from both science-based and non-traditional backgrounds among the current student population. Access to this population will be through career fairs at existing undergraduate institutions and information sent to career offices in regional and national undergraduate program.

Adequacy of Resources

Faculty/Staff - There will be some need for additional faculty members' time to teach the courses proposed. Although some of the Center staff has partial appointments in the College of Public Health, this will need to increase in the future as a reallocation of resources. Some faculty time will be needed for an Admission and Program Committee to run the program efficiently. The Program Committee will be comprised of one (1) Epidemiology and one (1) Health Promotion, Social and Behavioral Health faculty member and one (1) student. Some staff time will be required for handling the admission process and student advising and mentoring. Dr Philip Smith and Sharon Medcalf will be the primary instructors for this program.

Program Administration- The Program will be administered by the Program Director along with support from the CoPH Office of Educational Services. Philip Smith, MD, Department of Epidemiology, will serve as Program Director.

Library- All resource materials for Emergency Preparedness topics are currently housed with the Center for Biopreparedness Education but cataloged with UNMC's McGoogan library and easily accessible to all students

Physical Facilities- There will be no need for an additional physical facility to offer this program. CoPH and the UNMC existing facilities will be sufficient.

Instructional equipment- No additional equipment is necessary for the proposed program.

Budget projections- Budget requirements for the program will consist of additional Center faculty time to be determined in the future by the Dean's office. There will be minimal supplies and mailing costs, which the Epidemiology and Health Promotion, Social and Behavioral Health departments can manage through their departmental budgets. With regard to tuition, the usual College of Public Health tuition rates and fees shall apply.

Admission and Awarding of the Certificate

Requirement for Admission: Minimum requirement: Bachelor's degree from an accredited college or university with at least one college-level biology or equivalent course, college algebra, or a more advanced mathematics course, taken within the 5 years of program application with at least a B (or 3.00) grade is required, and a strong record of academic performance. International students whose first language is not English will require at least the following TOEFL score:

Paper base test score = 550

Computer base test score = 231

Internet based test score = 80

Application Deadline: Fall Semester Admission - June 1 for domestic students and April 1 for International students. Spring Semester Admission – October 1 for domestic students and August 1 for international students

Number of Students Anticipated: The program anticipates admitting 5-8 students each semester for the initial year with admission taking place in both the Fall and Spring. The program anticipates that once established approximately 20 students will be enrolled in the program at any given time.

Awarding of the Certificate: Completion of 18 credits of prescribed course work with a minimum 3.0 GPA.

UNIVERSITY OF NEBRASKA BOARD OF REGENTS
 AGENDA SUPPORT MATERIALS
 PROPOSAL TITLE: **Emergency Preparedness Certificate**

TABLE 1: PROJECTED INCREMENTAL PROGRAM EXPENSES

(INDICATE THE NET CHANGE--INCREASE OR DECREASE-- EACH YEAR COMPARED TO PREVIOUS YEAR)										
STAFF	(FY12) Year 1		(FY13) Year 2		(FY14) Year 3		(FY15) Year 4		(FY16) Year 5	
	FTE	COST	FTE	COST	FTE	COST	FTE	COST	FTE	COST
<i>Staffing:</i>										
<i>Faculty</i> ¹	0.20	\$ 29,672.00	0.20	\$ 30,562.16	0.20	\$ 31,479.02	0.20	\$ 32,423.40	0.20	\$ 33,396.10
<i>Non-Teaching Staff</i> ²										
<i>Administrative</i>	0.05	\$ 3,750.00	0.05	\$ 3,862.50	0.05	\$ 3,978.38	0.05	\$ 4,097.73	0.05	\$ 4,220.66
<i>Professional</i>										
<i>Support</i>	0.10	\$ 4,886.50	0.10	\$ 5,033.10	0.10	\$ 5,184.09	0.10	\$ 5,339.61	0.10	\$ 5,499.80
<i>Sub-Total of Personnel Expenses</i>	0.35	\$ 38,308.50	0.35	\$ 39,457.76	0.35	\$ 40,641.49	0.35	\$ 41,860.73	0.35	\$ 43,116.55
<i>Incremental Program Budget:</i>										
<i>General Operating Expense</i> ³		\$ 500.00		\$ 505.00		\$ 510.05		\$ 515.15		\$ 520.30
<i>Equipment</i>										
<i>Facilities</i>										
<i>Additional Library Resources</i>										
<i>Additional Other Expenses</i>										
<i>Sub-Total of Program Budget</i>		\$ 500.00		\$ 505.00		\$ 510.05		\$ 515.15		\$ 520.30
Total Proposed Program Expenses		\$ 38,808.50		\$ 39,962.76		\$ 41,151.54		\$ 42,375.88		\$ 43,636.86

These course offerings expand the MPH elective course offerings in the domain of emergency preparedness.

- 1. Faculty: This represents 0.15 FTE for Sharon Medcalf and 0.05 FTE for Dr. Philip Smith with a yearly increase of 3%
- 2. Non-Teaching Staff: This represents 0.05 FTE of Jessica Tschirren, Director of Education Services and 0.10 FTE for Beckie McCaw, administrative support with a yearly increase of 3%.
- 3. General Operating Expenses: General operating expenses are incremented at 1% per year.

UNIVERSITY OF NEBRASKA BOARD OF REGENTS
 AGENDA SUPPORT MATERIALS
 PROPOSAL TITLE: **Emergency Preparedness Certificate**

TABLE 2: REVENUE SOURCES FOR PROJECTED INCREMENTAL EXPENSES

REVENUE	(FY12) Year 1	(FY13) Year 2	(FY14) Year 3	(FY15) Year 4	(FY16) Year 5
<i>REALLOCATION OF EXISTING FUNDS¹</i>	\$ 38,808.50	\$ 39,962.76	\$ 41,151.54	\$ 42,375.88	\$ 43,636.86
<i>REQUIRED NEW PUBLIC FUNDS</i>					
1. <i>STATE FUNDS</i>					
2. <i>LOCAL FUNDS</i>					
<i>TUITION AND FEES REVENUES</i>					
<i>OTHER FUNDING</i>					
1.					
2.					
3.					
4.					
5.					
*TOTAL REVENUE	\$ 38,808.50	\$ 39,962.76	\$ 41,151.54	\$ 42,375.88	\$ 43,636.86

* Total Revenue should match the total expenses projected on Table 1

1. This represents the amount of salary and benefits that the College of Public Health will reallocate from its budget to support this program.
 The primary source of funds is POE dollars already part of the CoPH budget.

TO: The Board of Regents Addendum IX-A-3

Academic Affairs

MEETING DATE: April 29, 2011

SUBJECT: Establishment of the Professional Certificate in Infectious Disease Epidemiology

RECOMMENDED ACTION: Approval is requested to establish the Professional Certificate in Infectious Disease Epidemiology in the College of Public Health at the University of Nebraska Medical Center

PREVIOUS ACTION: April 16, 2010 – The Board approved the transfer of the Master of Public Health from the Graduate College to the College of Public Health

May 19, 2001 – The Board approved the Master of Public Health

EXPLANATION: The College of Public Health (CoPH) proposes the Professional Certificate in Infectious Disease Epidemiology as a direct response to the expressed need of the existing health professional workforce in Nebraska. This certificate is in full alignment with Section 3 of the University of Nebraska’s Strategic Planning Framework, to “play a critical role in building a talented, competitive workforce.” Ninety-five percent of the current public health workforce in the state has not received any formal training in public health. The region has witnessed a rapid expansion in departments of health (18) over the past few years, leading to a substantial need within the structure to expand and strengthen the basic skills and training of the existing workforce. The CoPH is best equipped to respond directly to this expressed need. This certificate will help fulfill the strategic goals in Section 3.h. by offering health professionals an opportunity to engage in professional training specific to their field, thereby enhancing their skills in serving the needs of the state population. The CoPH aims to offer this certificate both on-site and via distance learning technologies to facilitate access by an extended audience, which is aligned with Sections 1.d. and e. of the Strategic Planning Framework. No new courses are required to offer this certificate.

This proposal has been reviewed by the Council of Academic Officers.

PROJECT COST: \$29,776

SOURCE OF FUNDS: Reallocation of existing resources in the College of Public Health

SPONSORS: David Crouse, PhD
Interim Vice Chancellor for Academic Affairs

Harold M. Maurer, MD, Chancellor
University of Nebraska Medical Center

Linda R. Pratt
Executive Vice President and Provost

RECOMMENDED: James B. Milliken, President
University of Nebraska

DATE: April 14, 2011

**Proposal for a new professional certificate program
Infectious Diseases Epidemiology (IDE) Professional Certificate**

Sponsoring department

Epidemiology, College of Public Health

Date of Submission

January, 2011

Recommended Program Start Date

Fall, 2011

Certificate Title

Infectious Diseases Epidemiology (IDE) Professional Certificate

Description of the Program:

The professional certificate program offers instruction on the concepts, methods, and application of epidemiological principles related to infectious diseases. With the growing challenges resulting from the global spread of infectious diseases, practitioners of public health have a greater need for epidemiological tools to identify and control infectious diseases when they appear. This certificate will provide public health practitioners with knowledge and understanding of infectious disease epidemiology, including study design, data collection, analyses, and interpretation of data findings.

Centrality to Role and Mission:

The goal of the IDE certificate program is to educate and train high quality infectious disease professionals and students to meet the challenges of the emerging and existing infectious disease in the world; which is consistent with the mission of the College of Public Health (CoPH). The college is a principal provider of both professional and continuing education for the public health workforce for Nebraska and the region. The IDE program will prepare experts in infectious disease epidemiology to serve in Nebraska, the nation and the world. The IDE certificate program will be an inter-departmental endeavor at the college in the area of infectious disease. Consistent with the college's mission, the proposed program will seek highly quality students and professionals from Nebraska, the nation and the world. Ultimately, the IDE certificate program will provide an opportunity for collaboration and partnership with programs around the globe.

Rationale for a New Certificate:

Infectious diseases are increasingly recognized as national and global priorities, with potentially serious impacts on human health and economies. We have been able to control most of the infectious diseases in developed countries due to advanced medical and public health systems but it is still the major cause of morbidity and mortality in developing countries. In addition, emerging diseases such as SARS, avian, and H1N1 influenza virus infections are arising with increasing frequency and diseases caused by multi-drug resistant pathogens such as malaria, tuberculosis, and bacterial pneumonias are evolving. The global threat from infectious agents demands expertise in infectious disease epidemiology in the U.S., with an even greater demand in developing countries. A certificate program in infectious disease epidemiology will help address these needs and assist in meeting the demand for expertise in this area by training health professionals. It makes sense to develop a rigorous and focused program targeted to public health professionals. Such a program's should be housed within the College of Public Health at UNMC, because of its increasing emphasis in global health and its experience in distance education.

This professional certificate program is intended for graduate students, public health professionals, laboratory professionals, physicians, nurses, veterinarians, and other health professionals who seek graduate level training in infectious diseases epidemiology.

Consistency with the Comprehensive Plan:

Program of Study

The program of study is guided by the Department of Epidemiology. This is a professional certificate program in which a prospective student is expected to have a bachelor's degree from an accredited college or university. This proposal for a Certificate in Infectious Diseases Epidemiology is a response to the need of the existing health professional workforce in Nebraska, the nation, and the world. This certificate is in full alignment with Section 3 of the University of Nebraska's Strategic Planning Framework, to "play a critical role in building a talented, competitive workforce". The CoPH being the academic leader of the region is fully equipped to respond to this growing need for public health professional trained in IDE. This certificate will help fulfill the strategic goals in Section 3.h. by offering health professionals an opportunity to engage in professional training specific to IDE, thereby enhancing their skills in serving the needs of the state population as well as the population of the world. Furthermore, new collaborations between the CoPH and other global educational institutions will allow the college to engage new students globally, expanding our visibility and competitiveness among other academic institutions. The CoPH aims to offer this certificate both on-site and via distance learning technologies to facilitate access to an extended audience, which is aligned with the UNMC Strategic Planning Framework, Sections 1.d. and e., referring to expanding lifelong educational opportunities and to promote adequate student preparation for success.

The curriculum of the IDE certificate is consistent with UNMC professional level education. The courses included in the certificate are existing UNMC graduate/professional courses. The IDE certificate program will consist of 18 semester credit hours of coursework. The initial list of

courses required for this certificate program is given in the next section and are routinely offered by the CoPH. The list of courses may be amended as approved by the sponsoring departments and the Admission and Academic Committee. The certificate program will offer two options for enrollment in the program as full-time or part-time student status. The program completion timeline differs based on the enrollment status options.

Option-1: Full-time student status expects completing the program in two consecutive semesters (fall and spring). Extensions for good cause may be granted by permission of the Admission and Academic Committee (AAC), the certificate oversight committee. Students may request an extension from AAC and required to graduate within 2 years after the extension is granted.

Option-2: Part-time and full-time student status requires enrollment in at least 3 credits hours in each semester with no gap in the academic year (summer is exempt). Students should graduate in 3 years.

Description of courses

Curriculum - The program requires completion of 18 credit hours in two consecutive semesters (fall and spring) for full time students.

Required Courses: CPH 504, CPH 621, CHP 506, and CPH 650

Select 2 courses from the following: CPH 623, CPH 624, and CPH 622

Course (all courses are 3 credit hours)	Semester offered
CPH 504 – Epidemiology Theory and Application	Fall
CPH 506 – Biostatistics I	Fall
CPH 622 – Epidemiology of Biopreparedness and Emerging Infectious Diseases	Fall
CPH 650 – Biostatistics II	Spring
CPH 621 – Epidemiology Advanced Design and Methods	Spring
CPH 623 – Infectious Disease Epidemiology	Spring
CPH 624 – Advanced Infectious Disease Epidemiology	Spring

Total credits: 18

Duration/Scheduling of the Program - The recommended duration for the certificate program is two academic semesters (fall and spring). For Option 1, all credits must be earned within two years period and for Option 2 all credits must be earned within three years period. Extensions for good cause may be granted by permission of the AAC.

Learning

Scholarship Requirements - to maintain good standing, IDE certificate students are required to maintain a grade point average of at least a B (3.00) in their program of study. A grade of C

(2.00) may be accepted for no more than one course; receipt of two grades of C or any grade below C is not acceptable for professional/graduate credit and may result in dismissal from the program.

A student who fails to maintain a grade point average of B (3.00) or above will automatically be on academic probation and may not continue his/her program of study without the permission of AAC. In order to secure this permission, the student, in conjunction with his/her academic advisor, must submit a plan of remediation for approval to the AAC at least two (2) calendar weeks prior to the next scheduled AAC meeting (Instructions for Developing a Plan of Remediation for Academic Standing-see MPH handbook for more details). The AAC will review the student's status and plan of remediation. To continue in the certificate program, the student must remove the probationary status (i.e., return to an overall 3.00 or above grade point average) within the next twelve (12) months.

Completion of 18 credits of prescribed course work with a minimum 3.0 GPA is required. At least 15 of these credits must be completed at the CoPH. Three transfer credits are permitted. Students who wish to receive transfer credit must submit a copy of the course syllabus to the AAC for recommendation.

Need for Diverse Student Group

The IDE certificate program will follow the UNMC guide for its student diversity, which promotes equal educational and employment opportunities in the academic and work environment. It shall not discriminate against students and employees, and campus visitors (for example, applicants for educational programs, employment applicants, volunteers, and vendors) based on race, age, color, disability, religion, sex, national origin, marital status, genetic information or Veteran status.

Evidence of Need

In 1988 and 2002 the Institute of Medicine report on the Future of Public Health indicated a consistent demand for focused efforts that address the infrastructure and core services of public health. The threat of terrorism renewed calls for strengthening the public health infrastructure. The U.S. Department of Health and Human Services has emphasized the need for a closely linked, nationwide public health network of local, regional, and state health resources. Epidemiologists in state and territorial health departments are essential to the monitoring of chronic conditions and diseases and the rapid detection and reporting of infectious disease outbreaks, whether or not related to terrorism. In addition, a survey conducted by the Council of State and Territorial Epidemiologists (CSTE) showed that as of 2006, 46% of epidemiologists working in state and territorial health departments had no formal training in epidemiology. CSTE recommended that 80% of the state and territorial epidemiology workforce should have formal training in epidemiology. Infectious disease epidemiology is the major public health function of the state health department. According to CSTE 35% of the epidemiologists are assigned to infectious disease epidemiology programs and an estimated 34% more epidemiologists than are currently employed are needed to carry out essential functions. To address this need and fill the

gap in educational programs available to practitioners, the Department of Epidemiology of the CoPH, UNMC is proposing the Certificate in Infectious Disease Epidemiology.

Adequacy of Resources

Faculty/Staff - There will be no need for additional faculty member's time for teaching because the certificate program is designed in such a way that all the required classes for the program are offered during the regular academic calendar year. Some faculty time will be needed for Admission and Academic Committee (AAC) to run the program efficiently. The AAC will be comprised of 2 epidemiology and 1 biostatistics faculty members and one student. Some staff time will be required for handling the admission process and student advising and mentoring. The Department of Epidemiology can handle these program requirements with its existing staff at the initial stage of the program.

Program Administration-The Program Director along with support from the epidemiology department faculty and staff can administer the program. Monirul Islam, MD, PhD, Assistant Professor, Department of Epidemiology, will serve as Program Director.

Library-No need for a special library, the UNMC library and its academic resources will be sufficient for this program.

Physical Facilities- There will be no need for an additional physical facility to run this program. CoPH and the UNMC existing facilities will be sufficient.

Instructional equipment- No equipment is necessary for the proposed program.

Budget projections- No specific budget is required for the program at this time. There will be minimal supplies and mailing costs, which the epidemiology department can manage through its departmental budget. With regard to tuition, the usual College of Public Health tuition rates and fees shall apply

Admission and Awarding of the Certificate

Requirement for Admission: Minimum requirement: Bachelor's degree from an accredited college or university with at least one college-level biology or equivalent course, college algebra, or a more advanced mathematics course, taken within the 5 years of program application with at least a B (or 3.00) grade is required, and a strong record of academic performance.

Foreign students whose first language is not English will require at least the following TOEFL score:

Paper base test score = 550

Computer base test score = 231

Internet based test score = 80

Application Deadline: June 1 for domestic students and April 1 for International students.

Number of Students Anticipated: The program will admit 5-8 students in each fall for the initial 2 years. A maximum of 16 students will be admitted to the program. The number of admissions may be increased if additional resources are secured after the second year.

Awarding of the Certificate: Completion of 18 credits of prescribed course work with a minimum 3.0 GPA.

Counting Credits toward Certificate and Degree Programs

Students earning credits for one or more certificates who are later accepted into a CoPH degree program may apply their certificate credits to the extent that they are applicable for that degree. Any limit on internal transfer credits applicable to the degree shall apply.

Students earning credits in a CoPH degree program (or in non-matriculated status) who leave prior to earning a degree, may apply to be admitted to a certificate program within two years of separation and, if accepted, may apply their previous earned, applicable credits (Grade B or better) to the certificate.

UNIVERSITY OF NEBRASKA BOARD OF REGENTS
 AGENDA SUPPORT MATERIALS
 PROPOSAL TITLE: **Infectious Diseases Epidemiology (IDE) Certificate**

TABLE 1: PROJECTED INCREMENTAL PROGRAM EXPENSES

(INDICATE THE NET CHANGE--INCREASE OR DECREASE-- EACH YEAR COMPARED TO PREVIOUS YEAR)

STAFF	(FY12) Year 1		(FY13) Year 2		(FY14) Year 3		(FY15) Year 4		(FY16) Year 5	
	FTE	COST	FTE	COST	FTE	COST	FTE	COST	FTE	COST
<i>Staffing:</i>										
<i>Additional Faculty</i> ¹	0.20	\$ 21,925.35	0.20	\$ 22,583.11	0.20	\$ 23,260.60	0.20	\$ 23,958.42	0.20	\$ 24,677.17
<i>Non-Teaching Staff</i> ²										
<i>Administrative</i>	0.05	\$ 3,750.00	0.05	\$ 3,862.50	0.05	\$ 3,978.38	0.05	\$ 4,097.73	0.05	\$ 4,220.66
<i>Professional</i>										
<i>Support</i>	0.10	\$ 3,601.10	0.10	\$ 3,709.13	0.10	\$ 3,820.41	0.10	\$ 3,935.02	0.10	\$ 4,053.07
<i>Sub-Total of Personnel Expenses</i>	0.35	\$ 29,276.45	0.35	\$ 30,154.74	0.35	\$ 31,059.39	0.35	\$ 31,991.17	0.35	\$ 32,950.90
<i>Incremental Program Budget:</i>										
<i>General Operating Expense</i> ³		\$ 500.00		\$ 505.00		\$ 510.05		\$ 515.15		\$ 520.30
<i>Equipment</i>										
<i>Facilities</i>										
<i>Additional Library Resources</i>										
<i>Additional Other Expenses</i>										
<i>Sub-Total of Program Budget</i>		\$ 500.00		\$ 505.00		\$ 510.05		\$ 515.15		\$ 520.30
Total Proposed Program Expenses		\$ 29,776.45		\$ 30,659.74		\$ 31,569.44		\$ 32,506.32		\$ 33,471.20

These course offerings expand the MPH elective course offerings in the domain of epidemiology.

1. Additional Faculty: This represents 0.10 FTE of Monirul Islam, MD, PhD, Program Director, 0.05 FTE Peter Iwen, PhD, Epidemiology Faculty, and 0.05 FTE Gleb Haynatzk PhD, Biostatistics Faculty with a yearly increase of 3%.
2. Non-Teaching Staff: This represents 0.05 FTE of Jessica Tschirren, Director of Education Services and 0.10 FTE for Robin Jaeckel, administrative support with a yearly increase of 3%.
3. General Operating Expenses: General operating expenses are incremented at 1% per year.

UNIVERSITY OF NEBRASKA BOARD OF REGENTS
 AGENDA SUPPORT MATERIALS
 PROPOSAL TITLE: **Infectious Diseases Epidemiology (IDE) Certificate**

TABLE 2: REVENUE SOURCES FOR PROJECTED INCREMENTAL EXPENSES

REVENUE	(FY12) Year 1	(FY13) Year 2	(FY14) Year 3	(FY15) Year 4	(FY16) Year 5
<i>REALLOCATION OF EXISTING FUNDS¹</i>	\$ 29,776.45	\$ 30,659.74	\$ 31,569.44	\$ 32,506.32	\$ 33,471.20
<i>REQUIRED NEW PUBLIC FUNDS</i>					
1. <i>STATE FUNDS</i>					
2. <i>LOCAL FUNDS</i>					
<i>TUITION AND FEES REVENUES</i>					
<i>OTHER FUNDING</i>					
1.					
2.					
3.					
4.					
5.					
*TOTAL REVENUE	\$ 29,776.45	\$ 30,659.74	\$ 31,569.44	\$ 32,506.32	\$ 33,471.20

* Total Revenue should match the total expenses projected on Table 1

1. This represents the amount of salary and benefits that the College of Public Health will reallocate from its budget to support this program.
 The source of funds for this reallocation is comprised of POE and state-aided funds.

TO: The Board of Regents Addendum IX-A-4
Academic Affairs

MEETING DATE: April 29, 2011

SUBJECT: Create a Bachelor of Science degree program in Microbiology at the University of Nebraska-Lincoln (UNL).

RECOMMENDED ACTION: Approval is requested to create a Bachelor of Science degree program in Microbiology at UNL.

PREVIOUS ACTION: None

EXPLANATION: This proposes a Bachelor of Science degree program in Microbiology. This microbiology degree program will be the only one offered in the State of Nebraska and few undergraduate microbiology programs exist in states that belong to the Midwestern Higher Education Compact.

The knowledge that the students obtain in this undergraduate degree program will prepare them for entry into professional/graduate schools or for employment in government, academic, or industrial positions. The development of the degree program will facilitate the interactions of existing faculty across departments and campuses.

This proposal has been reviewed by the faculty in all the contributing disciplinary areas, the dean of the College of Agricultural Sciences and Natural Resources, the dean of the College of Arts and Sciences, the UNL Academic Planning Committee, and the Council of Academic Officers.

PROGRAM COSTS: The creation of the undergraduate program in Microbiology will be made possible through use of existing faculty and reallocation of existing funds of \$43,920.

SPONSORS: Ellen Weissinger
Senior Vice Chancellor for Academic Affairs

Ronnie Green
Vice Chancellor, Institute of Agriculture and Natural Resources

Harvey Perlman, Chancellor
University of Nebraska-Lincoln

Linda R. Pratt
Executive Vice President and Provost

RECOMMENDED: James B. Milliken, President
University of Nebraska

DATE: April 14, 2011

UNDERGRADUATE PROGRAM IN MICROBIOLOGY

I. DESCRIPTIVE INFORMATION

Institution Proposing the Program	University of Nebraska-Lincoln
Program Name	Degree Program in Microbiology
Degree to be Awarded	Bachelor of Science in Microbiology (College of Agricultural and Sciences and Natural Resources) Bachelor of Science (College of Arts and Sciences)

Other Programs Offered in this Field by this Institution

Currently, there are no programs in this area. Although, some microbiology courses are offered in the School of Biological Sciences and the Departments of Agronomy and Horticulture, Biochemistry, Food Science and Technology, Plant Pathology, and Veterinary and Biomedical Sciences.

CIP Code: 26.0505

Administrative Units for the Program

College of Agricultural Sciences and Natural Resources (CASNR)

Department of Biochemistry

Department of Food Science and Technology

Department of Plant Pathology

Department of Veterinary and Biomedical Sciences

College of Arts and Sciences (CAS)

School of Biological Sciences (SBS)

Other departments that would like to participate would be considered by the advisory committee (See below)

Proposed Delivery Site

University of Nebraska-Lincoln campus

Proposed date (term/year) the Program will be initiated

Fall semester 2012

Date approved by Governing Board

To be announced

Description and Purpose of the Proposed Program

This program will empower students with a world-class education befitting of the University of Nebraska-Lincoln. Students will have the opportunity to acquire the knowledge and skills they need to succeed in an increasingly complex, diverse, interconnected and changing world. They will learn how to acquire new knowledge, form their own well-grounded opinions and beliefs. These abilities will prepare them for a variety of careers in a quick-changing and diverse workplace.

Microbiology, the study of microscopic organisms and viruses, is comprised of sub-disciplines including physiology, biochemistry, genetics, diversity, ecology and evolution. The science of microbiology revolves around two general themes: 1) understanding basic life processes, and 2) application of our understanding of microbiology for the benefit of mankind. Microbes play a central role in human activities and the web of life on Earth. Although microbes are small, collectively they constitute the largest mass of living material on Earth, and the diversity of microbial life exceeds that of plants and animals. Humans, plants and animals are intimately linked to microbial activities for the recycling of key nutrients and for degrading organic matter. Most animal and plant diseases are caused by microorganisms. They play a major role in soil fertility and domestic animal production. Many large-scale industrial processes such as antibiotic and biofuel production depend on microorganisms. Thus microorganisms are an excellent model for understanding biology at many levels and these concepts are strongly represented in our required microbiology courses. The beneficial and detrimental effects of microorganisms constitute an important knowledgebase that will prepare our students to participate in Life Sciences in the 21st century.

Microbiology is unusual in the life sciences because there are several distinct careers that a student can pursue directly after acquiring an undergraduate degree in microbiology. These include careers in the food industry, clinical microbiology, and biotechnology. A microbiology major is also an excellent major to prepare students for graduate school or professional schools such as medical, pharmacy or dental school.

A secondary benefit of establishing an inter-college inter-departmental microbiology degree program at UNL is that it will help coordinate existing microbiology curricula on campus and it should facilitate interactions between faculty across departments and campuses. It would also lead to closer interactions with the new School of Public Health at UNMC. Finally, establishing a microbiology degree program at UNL would provide trained microbiologists who will likely be needed in positions at UNL Innovation Park and in other biotechnology companies in Nebraska.

Structure and Operation

The program will be governed by a director and an advisory committee. The founding director will be elected by the advisory committee from faculty nominees and will serve for a five-year term. The founding advisory committee was formed by the Heads and Director of the initial participating Departments and School. The current members of the advisory committee and the Departments and School to which they belong are as follows: Jim Alfano (Co-chair), Dept. of Plant Pathology; Audrey Atkin (Co-chair), School of Biological Sciences; Paul Blum, School of Biological Sciences; Bob Hutkins, Dept. of Food Science and Technology; Rod Moxley; Dept. of Veterinary and Biomedical Sciences; Bob Sprietzer, Dept. of Biochemistry; and Luwen Zhang, Nebraska Center for Virology and School of Biological Sciences.

The microbiology program will be housed in the Beadle Center because of its central location, the large number of life science students, and because it is where the microbiology teaching laboratories are located. We have requested funds from CASNR and CAS to support an academic advisor, as well as funds for webpage construction and maintenance, Beadle Business Center support, program assessment and an administrative supplement for the Director.

The Director will consult with the advisory committee prior to making major decisions regarding the microbiology program. However, decisions regarding the microbiology program will ultimately rest with the Director. The Director will interact with the Department Heads and the Director of the SBS to insure that the microbiology courses are regularly offered. The Director will report directly to the Deans of CASNR and CAS.

Proposed Curriculum

The goal of the microbiology program is to offer a field of study for students who are interested in microbiology. Our curriculum meets requirements in both the CAS and the CASNR and it closely follows the recommendations of the American Society for Microbiology. The core curriculum requirements are similar to those for Biochemistry, Plant Biology and Biological Sciences which is consistent with the recommendation for a core curriculum for the life sciences in the Life Science Proposals from the Chancellor's State of the University Address, September 10, 2009. The curriculum is unique because it takes advantage of the rich expertise in microbiology at UNL by coordinating the elective microbiology courses currently taught by microbiology faculty in different departments. The electives are deliberately flexible because the potential careers in microbiology are so diverse and increasingly interdisciplinary. This enables microbiology students to develop a custom program of studies to best meet their personal goals. We recognize that quality advising is key for the students to best meet their goals in a flexible program and for that reason have requested funds for a full-time advisor. It also meets the educational requirement for Professional Certification as a Registered Microbiologist ([RM]NRCM) by the National Registry of Certified Microbiologists (NRCM) (Appendix 3)]. Importantly, at least initially, we are not proposing any new courses and all the courses within the curriculum are regularly offered and will remain in their individual academic units.

Learning Outcomes with Selected Objectives

Upon graduation, Microbiology undergraduate students will:

1. Demonstrate a sound working knowledge of the field of microbiology.
2. Demonstrate a competency of the skills necessary to perform effectively and safely in a microbiology laboratory.
 - a. Master the basic techniques essential to sound laboratory practice.
 - b. Ask pertinent questions about microbiology, formulate hypotheses based on those questions, and design experiments to test those hypotheses.
 - c. Apply deliberate and thorough observational skills to conduct experiments and collect data.
 - d. Know how to organize and summarize data and present them in a way that is accurate and comprehensible in both verbal and visual modes.
 - e. Interpret data and draw conclusions that either support or refute hypotheses and make a case for alternative hypotheses
3. Understand, manage and apply information about microbiology from both scholarly and popular sources.
 - a. Demonstrate the professionalism expected of the roles that they may serve in society.
 - b. Work in a collaborative manner.
 - c. Communicate technical scientific information clearly and coherently to professional colleagues as well as the general public in written or verbal formats.

- d. Characterize and value ethical behavior in conducting research, application of biotechnology and communicating scientific knowledge.
- e. Understand the importance of the ethical, legal and environmental dimensions of complex problems and issues facing biomedical, agricultural and natural resource professionals.

Requirements for the Degree Program/Major in Microbiology

The details of the curriculum are outlined in Appendix 2. Briefly, students majoring in microbiology would take essentially the same courses whether they were pursuing their degree from CASNR or CAS. They would take core Microbiology, natural science and general education courses.

Required Microbiology Courses (13-14 hours)

- BIOS 312 Fundamentals of Microbiology
- BIOS 313 Molecular Microbiology Laboratory (2 hours) or BIOS314 Microbiology Laboratory (1 hour)
- BIOS 440 Microbial Physiology
- BIOS 420 Molecular Genetics
- BIOS 443 Immunology

Elective microbiology courses (12-18 hours at the 300 level or above)

Natural Science Requirements (45-46 hours)

- BIOS 102, 103, 206
- CHEM 109, 110 (or 113, 114, 116), 251, 253 (or 261, 263)
- MATH 106 (or CAS students could substitute this with MATH 106B)
- STAT 218 (or one of EDPS 459, ECON 215, STAT380)
- PHYS 141, 142 (or 211, 212)
- BIOC 431 (or 321, 321L)

College Distribution Requirements

ACE Learning Outcomes (30 hours)

Students majoring in microbiology will be able to choose from a list of microbiology elective courses to fill out their course work and focus it on the area of microbiology that interests them. They would be able to develop strengths in the following areas:

1. General Microbiology
2. Clinical and Veterinary Microbiology
3. Food Microbiology
4. Biotechnology and Industrial Microbiology
5. Applied, Environmental, and Plant Microbiology

It is important to note that the degree earned will not state the area of specialization. As the degree program matures, this may be a consideration in the future.

For the microbiology program to be successful, access to undergraduate advising is critical. Thus, we plan on having a full time undergraduate advisor to insure that our students are well advised to help them reach their career goals.

II. REVIEW CRITERIA

A. Centrality to Role and Mission

The University of Nebraska-Lincoln has a tripartite mission of teaching, research and public service. The 2020 Vision is that UNL become one of the leading public research universities in the nation and be ranked among the strongest state universities in academic quality. An important component of that vision is development of strong undergraduate programs. In order to accomplish that goal, teaching must be of the highest quality and integrate research. *UNL has a dynamic and diverse microbiology faculty with productive research programs in diverse areas spanning the depth and breadth of microbiology.* The faculty members are distributed in a variety of departments, but their research and graduate training expertise is coordinated through the Microbiology Initiative at UNL (<http://microbiology.unl.edu>). These faculty have begun an effort to extend this coordination to undergraduate education through an NSF funded Research Experiences for Undergraduates (REU) in Bioenergy Systems and a summer research opportunities programs (SROP) in Virology. A Microbiology major would better leverage the teaching expertise of this interdisciplinary group of faculty, coordinate existing and future microbiology curriculum, and facilitate engagement of undergraduate students with faculty who have diverse microbiology research programs. The result will be scholars who have the critical thinking skills and quest for knowledge necessary to enter the work force and enrich Nebraska's economy.

Historically, UNL had a microbiology department and it was merged with the departments of Botany and Plant Pathology and Zoology to create the School of Biological Sciences in 1975. The merging of microbiology departments with other departments was a trend across college campus in the 1970s. Interestingly, there is a trend now for establishing microbiology programs and/or departments across the country. Additionally, even at that time there were microbiologists in other departments at UNL. Currently, there are 53 faculty members belonging to the Microbiology Initiative at UNL that view themselves as microbiologists. This initiative was formed to coordinate interdepartmental research and training in microbiology and received a Program of Excellence from UNL in 2008 to further support its goals. There have been at least a couple recent attempts to establish a microbiology degree program. The Plant Pathology Department was asked in 2008 to establish an interdepartmental intercampus microbiology degree program. At the same time the School of Biological Sciences Microbiology and Molecular Biology faculty were discussing development of an emphasis in microbiology. These recent activities brought the five participating academic units together with much momentum to establish an undergraduate microbiology program.

B. Evidence of Need and Demand

1. Need for the Program

There are national trends that predict a great need for microbiologists in the future. For example, the national goal on developing biofuels will likely lead to jobs for

microbiologists. Currently, one of the most promising biofuels areas is the development of technologies trying to use algal microorganisms to make oil, and studying and implementing these technologies will require many microbiologists. Another national trend which will likely lead to a great need for microbiologists nationwide and also in Nebraska, is in improving food safety and enhancing gut health. Microbiology is unusual in the life sciences in that there are many distinct career tracks one can take with an undergraduate degree in microbiology. These include careers in clinical microbiology, food technology, industrial microbiology, environmental microbiology, and biotechnology. There are no microbiology degree programs in the State of Nebraska. This illustrates the great need for this program at UNL. At the moment, Nebraskans that are interested in microbiology programs need to leave our State to receive this training. This is doubly frustrating since the courses are being offered at UNL but they are not centralized enough for them to reach the students in a coherent manner.

2. Current Demand for the Program

The student demand for a microbiology program would be high. Nationwide microbiology departments generally have 50-200 undergraduate students. Within the first two years we anticipate about 100 undergraduate students majoring in microbiology. Within the first five years the total enrollment in the program may level off at about 150 students, with about 37 students joining the major each year.

3. Anticipated Demand for the Program

We believe the demand for this program will increase in the future. The State of Nebraska Department of Labor website predicts that from 2006 to 2016 there will be an increase of 31% in healthcare practitioners and technical occupations, and a 19.7% increase in life, physical, and social science occupations. Many of the positions within these categories would be microbiologists. UNL's own Innovation Park will require many research technicians within the next five years that could derive from an undergraduate microbiology degree program.

C. Required Resources

1. Faculty and Staff Resources

The program will require a Director and an Academic Advisor.

*The Director will be responsible for administration of the program in consultation with the advisory committee and they will directly supervise the Academic Advisor.

*The Academic Advisor will be responsible for academic advising of students, recruitment of new students and coordinating program assessment.

*General administrative support for the program will be provided by the Beadle Business Center.

*No additional faculty positions are anticipated at this time.

These costs will be shared equally by CAS and CASNR.

2. Physical Facilities

UNL has adequate physical facilities to support the proposed program.

3. Instructional Equipment and Informational Resources

No additional instructional equipment and informational resources will be needed at this time. However, if the program is successful we would likely need funding for laboratory courses, which would also require additional teaching assistants.

4. Budget Projections

We request an administrative supplement and release from teaching for the Director. We also request funds for an Academic Advisor to help run the Microbiology Program. Funds are requested for administrative support by the Beadle Business Center, and the general operating needs of the Academic Advisor. The general operating needs of the Academic Advisor include phone access and computational equipment. We request funds for website creation and regular maintenance. Routine updates to the website will be provided by the Beadle Business Center, however we anticipate that we will require a professional website designer periodically to update the website. Finally, we request funds for program assessment.

D. Avoidance of Unnecessary Duplication

No other institution in Nebraska offers programs to earn an undergraduate degree in microbiology. There are not many other undergraduate microbiology programs in states that belong to the Midwestern Higher Education Compact (IL, IA, MI, MN, MO, IN, KS, OH, SD, ND, WI, and NE). If there are microbiology programs in these other states they tend to be offered through their Biology Departments or Microbiology Departments. For example, the University of Kansas and Indiana University offer B.S. degrees in Microbiology through their Biology Departments. The University of Iowa and the University of Minnesota offer B.S. degrees in Microbiology from the Microbiology Department in their medical schools. Iowa State University does offer a B.S. degree in Microbiology from the Departments of Plant Pathology and Animal Science. However, since our proposed program includes several more departments we feel that our program will offer a more diverse education in microbiology.

E. Consistency with the Comprehensive Statewide Plan for Postsecondary Education

The proposed Microbiology Program is consistent with the Comprehensive Plan for Postsecondary Education. It is in line with the main goals of this plan in that it proposes to implement a program that addresses an educational need of the State of Nebraska. Additionally, by offering this program in an interdepartmental manner it will efficiently utilize the available resources and avoid duplication of microbiology programs at UNL. The program will offer Nebraska students a high quality education in microbiology and it will likely attract students from neighboring states. There is a great need in Nebraska and across the United States for students trained in microbiology and this need will only increase in the future. UNL is committed to training students to become leaders that will enhance and promote Nebraska's role in state, national, and global economies.

TABLE 1: PROJECTED EXPENSES – NEW INSTRUCTIONAL PROGRAM

	2011		2012		2013		2014		2015		Total	
	Year 1		Year 2		Year 3		Year 4		Year 5			
	FTE	Cost	FTE	Cost	FTE	Cost	FTE	Cost	FTE	Cost		
Personnel												
Faculty ¹	0.2	10,000	0.2	10,400	0.2	10,816	0.2	11,249	0.2	11,699	0.2	54,163
Professional ²	0.5	20,000	0.5	20,800	0.75	32,448	1	44,995	1	46,794	1	165,037
Graduate Assistants	0	0	0	0	0	0	0	0	0	0	0	0
Support staff	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	0.7	30,000	0.7	31,200	0.95	43,264	1.2	56,243	1.2	58,493	1.2	219,200
Operating												
General Operating ³		10,920		11,357		11,811		12,284		12,775		59,146
Equipment ⁴		2,000		500		520		541		562		4,123
New or renovated space		0		0		0		0		0		0
Library/information resources		0		0		0		0		0		0
Other ⁵		1,000		1,040		1,082		1,125		1,170		5,416
Subtotal		13,920		12,897		13,413		13,949		14,507		68,686
Total Expenses	0.7	43,920	0.7	44,097	0.95	56,677	1.2	70,192	1.2	73,000	1.2	287,886

¹The \$10,000/year is an estimated administrative supplement for the Program Director. The proposed administrative supplement is 10% of the Program Directors base salary adjusted to a 12 month appointment.

²Salary for the Academic Advisor based on \$40,000/year at 1 FTE. This is comparable to the salary of the Department of Biochemistry Academic Advisor.

³Beadle Business Center support for the Director and Academic Advisor (\$10,000/year), and \$920/year in general operating expenses for the Academic Advisor.

⁴The \$2,000 in year 1 is for design of a webpage. In subsequent years, funds are requested to maintain and update the webpage.

⁵Program assessment costs

Projected Expenses are increased by 4% per year to account for inflation.

TABLE 2: REVENUE SOURCES FOR PROJECTED EXPENSES - NEW INSTRUCTIONAL PROGRAM

	2011	2012	2013	2014	2015	Total
	Year 1	Year 2	Year 3	Year 4	Year 5	
Reallocation of Existing Funds ¹	\$43,920	\$44,097	\$56,677	\$70,192	\$73,000	\$287,886
Required New Public Funds						\$0
1. State Funds						\$0
2. Local Tax Funds (community colleges)						\$0
Tuition and Fees						\$0
Other Funding						\$0
1						\$0
2						\$0
3						\$0
Total Revenue ¹	\$43,920	\$44,097	\$56,677	\$70,192	\$73,000	\$287,886

¹ The total projected expenses for the Undergraduate Program in Microbiology from Table 1.

Appendix 1

Assessment for the Undergraduate Degree Program in Microbiology

A. Learning Outcomes and Expected Results

Students majoring in Microbiology will understand basic principals relating to molecular, cellular and organismal biology. In addition these students will exhibit proficiency in selected empirical laboratory skills, develop knowledge of contemporary research using the scientific method and demonstrate competence in oral and written communication. This background of knowledge and experience will prepare the students for entry into professional/graduate school or for employment in government, academic or industrial positions. Our students will demonstrate a sound working knowledge of the field of microbiology, a competency of the skills needed for sound laboratory practice, be able to understand, manage, and apply information about microbiology from both scholarly and popular sources, and they will be able to demonstrate the professionalism expected of the roles that our students may serve in society.

Specifically, student learning outcomes include proficiency in:

1. The physiology, biochemistry and genetics of bacteria and other microorganisms including cell structure, function, diversity, metabolism and the genetics of metabolic regulation.
2. The immune response and disease-causing microorganisms including aspects of the humoral, cell-mediated and non-specific immune responses, as well as the molecular basis for pathogenesis.
3. Taxonomic, ecological, evolutionary, and genetic relationships among microorganisms including nutrient cycling, microbial diversity and the biotechnological application of microorganisms to solve environmental problems.
4. The scientific method of investigation and hypothesis testing including the development of theoretical and practical skills in the design and execution of experiments as well as the development of oral and writing skills necessary for the effective communication of experimental results and/or scientific principles.

B. Assessment Methods

1. **Exit survey.** Graduating students will be required to answer questions in an exit questionnaire. These questions will be aimed at determining the strengths and weaknesses of the undergraduate program. Specifically students will be asked to comment on how well prepared they feel at this point in their development to enter the workplace or to pursue further study at the professional/graduate school level. Some of those completing the exit questionnaire will be interviewed informally to determine if the questionnaire needs improvements.
2. **Observation of skills in the design and execution of experiments.** All students majoring in Microbiology are required to take an introductory microbiology laboratory (BIOS 313 or 314). In addition to this initial laboratory course, each student must fulfill an

advanced laboratory course requirement. Student laboratory skills are evaluated by faculty members on the basis of successful completion and understanding of experimental protocols. Faculty responsible for teaching the laboratory courses will identify strengths and areas that need improvement for meeting the stated learning outcomes.

3. **Writing samples.** Students are required to submit written and in some cases oral reports of experimental results in the laboratory courses. A sample of the written reports will be submitted by the faculty members in charge of these courses to the faculty as a group. These reports will be used to determine if the stated learning outcomes are being met.
4. **Research projects.** Students may conduct a research project that utilizes the scientific method, skills in experimental design and execution, and writing skills necessary for the effective communication of results. Samples of written research papers will be used to evaluate these learning outcomes. In addition, faculty who supervise student research projects will assess the degree to which these learning outcomes are being achieved.
5. **Preparation for professional and graduate work.** The success of recently graduated majors will be tracked by determining acceptance rates for students entering professional/graduate schools.
6. **Alumni surveys.** Surveys of recent graduates will be conducted to determine how well the program prepared them for employment or for post-baccalaureate education. In these surveys, alumni will be asked to evaluate the strengths and weaknesses of the major, and recommend improvements.
7. **Exam scores.** Students will be tested on specific principles within the stated learning outcomes in selected courses.
8. **Case studies.** Students apply principles that they have learned to resolve case studies that they have not seen before.

C. Faculty involvement

Faculty who teach the core Microbiology courses will collect the data that will be used for analysis by an Undergraduate Affairs Committee. The committee will consist of 4-5 faculty appointed by the Director and advisory committee. The committee will analyze data once each year and make recommendations for improvements to learning outcomes and assessment methods. Results and recommendations will be presented to the faculty for review and revision before being submitted to the next administrative level in the college.

D. Analysis of data

Random, representative data samples will be collected from faculty each semester using the assessment methods described above. The Undergraduate Affairs Committee will determine the sample size needed to reasonably assess the extent to which the Microbiology undergraduate majors are attaining the learning outcomes. The committee will use the following

procedures each spring semester to analyze data and determine the extent to which the learning outcomes are being achieved:

1. Establish or review criteria for determining success in achieving each learning outcome. For example, *a learning outcome is obtained if the average evaluation of the data collected from multiple assessment measures indicates good to excellent performance.*
2. Establish or review a set of criteria that will be used to evaluate the success or failure of each learning outcome for each student. Each criterion will be measured with a 1 to 5 scale for each of the collected data (1, poor; 2, fair; 3, good; 4, very good; 5, excellent). An average score of each criterion will be reported and used to determine the extent to which each learning outcome has been obtained.
3. Establish or review criteria for determining success or failure of each learning outcome based on data collected outside of student coursework. This would include the exit survey, alumni survey, and preparation for professional and graduate work. For example, *these data might be analyzed by comparing the placement of students from our program into professional and graduate programs with graduates from other universities.* If insufficient data are generated from these assessment methods to provide relevant information, the surveys and/or procedures used to collect these data will be reviewed.
4. Collectively evaluate the data as a committee and determine if each learning outcome has been obtained based on the criteria in step 1.
5. The committee will present preliminary results to the participating departments and SBS and identify learning outcomes that need to be discussed further. The committee will also identify strengths and weaknesses of the assessment methods and make suggestions for improvements.
6. The teaching faculty will have an opportunity to respond to the committee's report.
7. The committee will review the comments from the faculty, reevaluate the data if necessary, and present their findings and suggestions for improvement in the assessment and program practices.

E. Use of assessment results

All assessment results will be assembled and summarized by the Undergraduate Affairs Committee and will be communicated to the participating departments and SBS by the Director. The results will be used by faculty to modify existing course offerings, to develop new course offerings and to change degree requirements as necessary so as to meet the expected learning outcomes for the major. Lack of data to accurately assess particular learning outcomes will provide an indication that improvement of assessment practices is necessary.

Appendix 2

Curriculum for the Microbiology Program

College of Arts and Sciences

Microbiology

Steering Committee: Jim Alfano (Co-chair), Dept. of Plant Pathology; Audrey Atkin (Co-chair), School of Biological Sciences; Paul Blum, School of Biological Sciences; Bob Hutkins, Dept. of Food Science and Technology; Rod Moxley, Dept. of Veterinary and Biomedical Sciences; Robert Sprietzer, Dept. of Biochemistry; and Luwen Zhang, Nebraska Center for Virology and School of Biological Sciences

Academic Advisor: TBA

Website: TBA

The microbiology major offers educational opportunities in various areas of Microbiology leading to a Bachelor of Science degree in microbiology. The training offered is suitable for a professional career in microbiology, which may lead to employment in the food industry, clinical microbiology, biotechnology, and pharmaceuticals; or federal agencies such as the Food and Drug Administration, US Department of Agriculture, US Public Health Service, and Environmental Protection Agency. The program is also suitable as preparation for graduate studies leading to academic careers and professional careers in medicine, dentistry, veterinary medicine, pharmacy, and health-related fields.

Students interested in majoring in microbiology are advised to make an appointment with the Academic Advisor.

Requirements for the Major in Microbiology:

Required Microbiology Courses (13-14 hours)

BIOS 312 Fundamentals of Microbiology

BIOS 313 Molecular Microbiology Laboratory (2 hours) or BIOS314 Microbiology Laboratory (1 hour)

BIOS 440 Microbial Physiology

BIOS 420 Molecular Genetics

BIOS 443 Immunology

Elective microbiology courses (12-18 hours, a minimum of 12 hours at the 300 level or above)

AGRO 469 Soil Microbiology

BIOS 302 Advanced Cell Structure and Function

BIOS 326 Biology of Viruses

BIOS 477 Bioinformatics and Molecular Evolution

BIOS 487 Field Parasitology

BIOS 479 Field Epidemiology

BIOS 497 Environmental Microbiology

BIOS 444 Geomicrobiology

FDST 406 Food Microbiology

FDST 455 Microbiology of Fermented Foods

FDST455L Microbiology of Fermented Foods Laboratory
PLPT 370 Biology of Fungi
VBMS 424 Basic Molecular Infectious Diseases
VBMS 441 Pathogenic Microbiology

Within the same subject matter area, students may request substitution for an elective course.

Note: BIOS 207 Ecology and Evolution is also recommended for students specializing in Applied, Environmental, and Plant Microbiology or who are interested in epidemiology.

Additional required courses

Natural Sciences Requirements (45-46 hours)
BIOS 102 Cell Structure and Function
BIOS 103 Organismic Biology
BIOS 206 Genetics
CHEM 109, 110 General Chemistry I and II (or 113, 114, 116)
CHEM 251, 253 Organic Chemistry and Lab (or 261, 263)
MATH 106 Analytical Geometry and Calculus I
STAT 218 Introduction to Statistics (or one of EDPS 459, ECON 215, STAT 380)
PHYS 141, 142 Elementary General Physics I and II (or 211, 212)
BIOC 431 Biomolecules and Metabolism (or 321, 321L)

College Distribution Requirements (19-25 hours)
ACE Learning Outcomes (30 hours)

Pass/No Pass. Students majoring in microbiology may not take any of the courses required for the major in microbiology as Pass/No Pass except for courses involving independent study, research, and seminars.

Program Assessment: To gauge the effectiveness of the program, majors within their senior year will be required to complete selected assessment activities. Results of participation in this assessment activity will in no way impact a student's GPA or graduation.

Students concerned about their preparation for college-level biology should take BIOS 101 and 101L prior to BIOS 102. Please consult your adviser if in doubt.

College of Agricultural Sciences and Natural Resources

Microbiology

Steering Committee: Jim Alfano (Co-chair), Dept. of Plant Pathology; Audrey Atkin (Co-chair), School of Biological Sciences; Paul Blum, School of Biological Sciences; Bob Hutkins, Dept. of Food Science and Technology; Rod Moxley, Dept. of Veterinary and Biomedical Sciences; and Bob Sprietzer, Dept. of Biochemistry; and Luwen Zhang, Nebraska Center for Virology and School of Biological Sciences.

Academic Advisor: TBA

Website: TBA

The microbiology major offers educational opportunities in various areas of Microbiology leading to a Bachelor of Science degree in microbiology. The training offered is suitable for a professional career in microbiology, which may lead to employment in the food industry, clinical microbiology, biotechnology, and pharmaceuticals; or federal agencies such as the Food and Drug Administration, US Department of Agriculture, US Public Health Service, and Environmental Protection Agency. The program is also suitable as preparation for graduate studies leading to academic careers and professional careers in medicine, dentistry, veterinary medicine, pharmacy, and health-related fields.

Students interested in majoring in microbiology are advised to make an appointment with the Academic Advisor. Students concerned about their preparation for college-level biology should take BIOS 101 and 101L prior to BIOS 102. Please consult your adviser if in doubt.

Pass/No Pass. Students majoring in microbiology may not take any of the courses required for the major in microbiology as Pass/No Pass except for courses involving independent study, research, and seminars.

Program Assessment: To gauge the effectiveness of the program, majors within their senior year will be required to complete selected assessment activities. Results of participation in this assessment activity will in no way impact a student's GPA or graduation.

Requirements for the Major in Microbiology:

The core courses and 12-18 hours of elective microbiology courses (a minimum of 12 hours at the 300 level or above) must be completed.

	Hours
College Integrative Courses	3
AGRI/NRES 103 Intro to Agricultural & Natural Resource Systems	3
Biological Sciences	25-26
BIOS 102 Cell Structure & Function	4
BIOS 103 Organismic Biology	4
AGRO 315 or BIOS 206 Genetics	4
BIOS 312 Fundamentals of Microbiology	3
BIOS 313 Molecular Microbiology Laboratory (2 hr) or BIOS314 Microbiology Laboratory (1 hr)	

BIOS 440 Microbial Physiology	3
BIOS 420 Molecular Genetics	3
BIOS 443 Immunology	3
Natural Sciences	26
BIOC 431 Biomolecules and Metabolism or BIOC 321 & 321L Elements of Biochemistry & Lab	4
CHEM 109 & 110 General Chemistry I & II or CHEM 113, 114 and 116	8
CHEM 251 & 253L Organic Chemistry & Lab or CHEM 261 and 263	4
PHYS 141 and 142 Elementary General Physics I and II or PHYS 321 and 321L	10
Mathematical and Statistics	8
MATH 106 or 106B Analytical Geometry & Calculus I	5
STAT 218 Intro to Statistics or one of EDPS 459, ECON 215, Stat 380	3
Communication	9
Written Communication <i>Select from:</i> ENGL 150, 151, 254; JGEN 120, 200, 300	3
Oral Communication <i>Select from:</i> COMM 109, 209, or 286	3
Communication and Interpersonal Skills elective <i>Select from:</i> ENGL 101, 150, 151, 252, 253, 254; ALEC 102; JGEN 120, 200, 300; COMM 109, 209, 212 or 286	3
Economics	3
ECON 211 or 212 or AECN 141	3
Humanities and Social Sciences	12
<i>Select one course each from ACE outcomes 5, 7, 8, and 9 as Humanities & Social Sciences electives.</i>	
Electives	38-39
12-18 hours must be in elective microbiology courses with a minimum of 12 hrs at the 300 level or above.	
Minimum Requirements for Graduation	125
Elective microbiology courses	
AGRO 469 Soil Microbiology	
BIOS 302 Advanced Cell Structure and Function	
BIOS 326 Biology of Viruses	
BIOS 477 Bioinformatics and Molecular Evolution	
BIOS 487 Field Parasitology	
BIOS 479 Field Epidemiology	
BIOS 497 Environmental Microbiology	
BIOS 444 Geomicrobiology	

FDST 406 Food Microbiology
FDST 455 Microbiology of Fermented Foods
FDST455L Microbiology of Fermented Foods Laboratory
PLPT 370 Biology of Fungi
VBMS 424 Basic Molecular Infectious Diseases
VBMS 441 Pathogenic Microbiology

Within the same subject matter area, students may request substitution for an elective course.

Note: BIOS 207 Ecology and Evolution is also recommended for students specializing in Applied, Environmental, and Plant Microbiology or who are interested in epidemiology.

Appendix 3

Registered Microbiologist and Conditional Registrant Requirements

These requirements apply to the RM: Pharmaceutical and Medical Device and RM: Food exams.

Eligible candidates must demonstrate one of the following:

1. A minimum of a baccalaureate degree with 20 semester hours or 30 quarter hours of course work in microbiology AND one year of full-time work experience (gained within the last three years) in a microbiology laboratory related to the specialty area in which you are seeking certification.
2. A minimum of a baccalaureate degree AND three years of full-time work experience (gained within the last five years) in a microbiology laboratory related to the specialty area in which you are seeking certification.

Conditional Registrant candidates may apply in their final semester of coursework as long as, upon receipt of their degree, they will have met the same educational requirements as RM candidates applying under option 1. Exam results will not be released until the final transcript, showing receipt of the baccalaureate degree, has been received. When the exam is passed, Conditional Registrant status is granted. Conditional Registrants then have two years in which to complete the one-year, full-time laboratory work experience requirement.

Education

Appropriate academic courses must be completed and verified by submission of official transcripts; photocopies will not be accepted. Relevant courses emphasize the study of microorganisms. The following course titles are approved:

- Applied bacteriology
- Bacteriology
- Cell biology
- Cell physiology
- Diagnostic bacteriology
- Epidemiology
- Fermentation
- Genetics
- Immunology
- Infectious diseases
- Medical microbiology
- Metabolism
- Microbial aerosols
- Microbial genetics
- Microbial physiology
- Microbial toxins
- Molecular biology
- Mycology
- Parasitology

Recombinant DNA
Rickettsiology
Tissue culture
Virology

Courses with the word "microbiology" in the title may also be acceptable (e.g., dairy microbiology, applied microbiology, diagnostic microbiology, industrial microbiology, and soil microbiology)

If credit is claimed for a course not specifically listed above, a copy of the course description verifying the course content claimed for microbiology credit must be mailed to the NRCM at:

National Registry of Certified Microbiologists
American Society for Microbiology
1752 N Street, N.W.
Washington, DC 20036-2904

A description from the course catalog or another official source is sufficient.

Academic credit will be given for workshop attendance. Up to four semester credit hours may be awarded for participation in workshops sponsored by ASM, the Accreditation Council for Continuing Medical Education (ACCME), the American Society for Clinical Pathology (ASCP), the Accreditation Council for Pharmacy Education (ACPE), or the International Association for Continuing Education and Training (IACET). One-half semester credit is awarded for each eight hours of participation. To claim credit, candidates must mail a copy of the certificate of attendance to the NRCM at the above address.

Work Experience

The candidate must have experience relevant to the area in which certification is being sought. Relevant experience is experience in which a significant majority of the candidate's duties is in the area in which he/she is seeking certification. The reference form(s) must specifically document the functions associated with the candidate's position that relate to the area in which certification is being sought.

Paid student work experience in a microbiology laboratory may be considered as partial fulfillment of the work experience requirement. Teaching and/or graduate study does not fulfill the experience requirement. Partial credit may be given for the microbiology portion of a formal laboratory training program.

Specialist Microbiologist Requirements

These requirements apply to the SM: Biological Safety and SM: Pharmaceutical and Medical Device exams.

Eligible candidates must demonstrate one of the following:

1. Master's degree or doctorate with 30 semester hours or 45 quarter hours in microbiology AND four years of full-time, postbaccalaureate work experience within the past seven years in the appropriate exam specialty area.
2. Bachelor's degree (BS or BA) with 20 semester hours or 30 quarter hours of microbiology AND seven years of full-time, postbaccalaureate work experience within the past 10 years in the appropriate exam specialty area.
3. Bachelor's degree (BS or BA) AND ten years of full-time, postbaccalaureate work experience within the past 15 years in the appropriate exam specialty area.

Education

Appropriate academic courses must be completed and verified by submission of official transcripts; photocopies will not be accepted. Relevant courses emphasize the study of microorganisms. The following course titles are approved:

Applied bacteriology
Bacteriology
Cell biology
Cell physiology
Diagnostic bacteriology
Epidemiology
Fermentation
Genetics
Immunology
Infectious diseases
Medical microbiology
Metabolism
Microbial aerosols
Microbial genetics
Microbial physiology
Microbial toxins
Molecular biology
Mycology
Parasitology
Recombinant DNA
Rickettsiology
Tissue culture
Virology

Courses with the word "microbiology" in the title may also be acceptable (e.g., dairy microbiology, applied microbiology, diagnostic microbiology, industrial microbiology, and soil microbiology)

If credit is claimed for a course not specifically listed above, a copy of the course description verifying the course content claimed for microbiology credit must be mailed to the NRCM at:

National Registry of Certified Microbiologists
American Society for Microbiology
1752 N Street, N.W.
Washington, DC 20036-2904

A description from the course catalog or another official source is sufficient.

Academic credit will be given for workshop attendance. Up to four semester credit hours may be awarded for participation in workshops sponsored by ASM, the Accreditation Council for Continuing Medical Education (ACCME), the American Society for Clinical Pathology (ASCP), the Accreditation Council for Pharmacy Education (ACPE), or the International Association for Continuing Education and Training (IACET). One-half semester credit is awarded for each eight hours of participation. To claim credit, candidates must mail a copy of the certificate of attendance to the NRCM at the above address.

Work Experience

The candidate must have experience relevant to the area in which certification is being sought. Relevant experience is experience in which a significant majority of the candidate's duties is in the area in which he/she is seeking certification. This experience must contribute to the candidate's ability to supervise the effective operation of a microbiology laboratory. For biological safety applicants, the reference form(s) must specifically document the biological safety functions associated with the candidate's position.

Paid graduate student experience in a microbiology laboratory may be considered as partial fulfillment of the work experience requirement.

Teaching and/or graduate study does not fulfill the experience requirement.

Appendix 4: Sample Microbiology Course Schedule Planning Document (Arts and Sciences)

Freshman Year	
Fall Semester (14 hrs): BIOS 102 Cell Structure & Function (ACE4, 4 hrs) CHEM 109 or CHEM 113 Gen. Chem. I (ACE4, 4 hrs) 2 CDR or ACE requirements	Spring Semester (16 hrs): BIOS103 Organismic Biology (ACE4, 4 hrs) CHEM 110 or CHEM 114 Gen. Chem. II (ACE4, 4 hrs) MATH 106 Analytical Geometry and Calculus I (ACE3, 5 hrs) 1 CDR or ACE requirements
Sophomore Year	
Fall Semester (14-17 hrs): BIOS 206 Genetics (4 hrs) CHEM 251 Organic Chem.I & CHEM 253 Organic Chemistry Lab (4 hrs) 2-3 CDR or ACE requirements	Spring Semester (14-17 hrs): *CHEM 252 Organic Chem.II & CHEM 254 Organic Chemistry Lab (4 hrs) PHYS 141 Gen. Physics I (ACE4, 4 hrs) STAT 218 Introduction to Statistics (ACE3, 3 hrs) 1-2 CDR or ACE requirements
Junior Year	
Fall Semester (15 hrs): BIOS 312 & 314 Microbiology (4 hrs) PHYS 142 Gen. Physics II (5 hrs) 2 CDR or ACE requirements	Spring Semester (14-17 hrs): *BIOC 431 Biomolecules and Metabolism (4 hrs) BIOS 326 Biology of viruses (3 hrs) BIOS385 Parasitology (3 hrs) BIOS 498 Undergrad. Research (1 hr) 1-2 CDR or ACE requirement
Senior Year	
Fall Semester (13-16 hrs): BIOS 440 Microbial Physiology (3 hrs) BIOS 443 Immunology (3 hrs) BIOS 498 Undergrad. Research (1 hr) 2-3 CDR or ACE requirements <u>or additional microbiology electives</u>	Spring Semester (16 hrs): BIOS 420 Molecular Genetics (3 hrs) VBMS 441 Pathogenic Microbiology (3 hrs) BIOS 498 Undergrad. Research (1 hr) 3 CDR or ACE requirements <u>or additional microbiology electives</u>

Note: *CHEM 252 Organic Chem.II & CHEM 254 & Organic Chemistry Lab (4 hrs) only required for students who select BIOC431 Biomolecules and metabolism

ACE Requirements also needed (24 hrs.)		College Distribution Requirements (CDR) also needed:
ACE1		CDR A - Written communication (3 hrs) to be selected from ACE1 approved courses
ACE2		CDR C - Humanities (6 hrs) from two different departments, select from classics*, english, history, modern languages and literatures*, philosophy, and religious studies* *Language courses numbered 210 or below apply only for the foreign language requirement
ACE5		CDR D - Social Sciences (3 hrs) select from anthropology, communication studies, geography, political sciences, psychology or sociology
ACE6		CDR E - Languages Classical and Modern (0-6 hrs, can be up to 16 hrs for students who place in SPAN101) Fulfilled by completion of the 6 hr second year sequence in a single foreign language in one of the following departments: Classics and religious studies, modern languages and literatures, or anthropology.
ACE7		
ACE8		
ACE9		
ACE10	Capstone course	

TO: The Board of Regents Addendum IX-B-1

Business Affairs

MEETING DATE: April 29, 2011

SUBJECT: Four Year Architect/Engineer Selection 2011 - 2015

RECOMMENDED ACTION: Approve the selection of the four year Architect/Engineer firms for term contracts from May 1, 2011, to April 30, 2015.

PREVIOUS ACTION: April 20, 2007 – The Board approved the selection of four year Architect/Engineer firms for term contracts from May 1, 2005, to April 30, 2011.

EXPLANATION: As allowed for in *Neb. Rev. Stat.* §§ 81-1712 through 81-1715 of the Consultants' Competitive Negotiation Act and the University's Four-Year Selection Procedure, qualifications-based selection processes are conducted every four years for architectural and engineering firms on projects ranging from \$40,000 to \$400,000 in fees. This process was reviewed with the business affairs committee in March. The qualifications phase has been completed and this item, if approved, establishes the four year firms for the period May 1, 2011 through April 30, 2015.

As dictated by the foregoing policy, the University solicited prospective candidates by advertising in major newspapers and sent letters to the American Institute of Architects and the National Society of Professional Engineers. In addition, all architectural and engineering firms certified to work for the University of Nebraska received e-mails with information and instructions. The University received 106 Statements of Qualifications from interested firms.

Project Evaluation Boards consisting of representatives from each campus and an equal number of representatives from outside the University reviewed the Statements of Qualifications from respondents. The Director of Facilities Planning and Management at Central Administration chaired each Project Evaluation Board. Following review of the Statements of Qualifications, and based upon the established selection criteria and processes, the Boards recommend the following consultants for projects where consultant fees range between \$40,000 and \$400,000.

Alley Poyner Macchietto Arch., P.C.	Holland Basham Architects
Alvine Engineering	Kenneth Hahn Architects, Inc.
Beringer Ciaccio Dennell Mabrey Inc.	Lamp, Rynearson &
Carlson West Povondra Architects	Associates, Inc.
Davis Design	LEO A. DALY
DLR Group, Inc.	Lutz, Daily & Brain, L.L.C.
Encompass Architects, P.C.	Morrissey Engineering Inc.
HDR Architecture, Inc.	Olsson Associates

RDG Planning & Design
Sinclair Hille Architects
Specialized Engineering
Solutions
The Clark Enersen Partners

The Schemmer Associates Inc.
Wiss, Janney, Elstner Associates,
Inc.
Wilkins Hinrichs Stober Arch.,
L.L.C.

SPONSORS:

Rebecca H. Koller
Assistant Vice President for Business & Finance
Director of Facilities Management and Planning

David E. Lechner
Vice President for Business and Finance

RECOMMENDED:

James B. Milliken
President

DATE:

April 7, 2011

TO: The Board of Regents Addendum IX-B-2

Business Affairs

MEETING DATE: April 29, 2011

SUBJECT: Purchase of SciQuest E-Procurement Software

RECOMMENDED ACTION: Approve the purchase of SciQuest E-Procurement Software and related implementation

PREVIOUS ACTION: None.

EXPLANATION: In fall of 2010, President Milliken instituted an efficiencies effort to address budgetary constraints, challenge cost structures, and streamline business processes. Among the business committees was a committee addressing procurement practices and methodologies. This agenda item, if approved, will allow the implementation of the first of the efficiency measures brought forth by the business committees.

The Procurement Efficiency Committee has recommended the purchase and implementation of software from SciQuest, a leading provider in the higher education space for purchasing solutions, including a significant percentage of major research institutions.

SciQuest's on-demand e-procurement software gives users greater control and visibility to help them spend money more wisely. The process streamlines catalogue management, directs spend to preferred vendors, drives higher compliance with contracts, tightens control and increases visibility throughout the entire source-to-settle process. SciQuest specializes in e-procurement solutions for higher education, public sector, healthcare, and life sciences organizations.

In practice, the proposed solution provides a number of vendor catalogues pre-populated with prices negotiated by University procurement. A departmental user simply goes on-line, identifies products, chooses them from the catalogue, inserts the same into a shopping cart, and proceeds to check-out. The accounting and banking behind the transaction is done without further input from the department. The product operates with the University's SAP software, with most of the first-year cost being associated with implementation and integration with SAP.

At peer institutions, gains from directing spend to strategic vendors has achieved up to a five percent savings on purchases. Assuming that the University can achieve 75% spend compliance (a figure offered by a peer who has undergone the same process), this would yield an annual savings of approximately \$1.8 million. A majority of savings achieved by peers have been in research expenditures.

Initial, one-time implementation costs will approximate \$525,000, with annual licensure costs approximating \$450,000.

PROJECT COST: \$525,000

ON-GOING FISCAL
IMPACT: \$450,000

SOURCE OF FUNDS: Cash funds

SPONSORS:

Christine A. Jackson
UNL Vice Chancellor for Business & Finance

Donald S. Leuenberger
UNMC Vice Chancellor for Business & Finance

Barbara L. Johnson
UNK Vice Chancellor for Business & Finance

William E. Conley
UNO Vice Chancellor for Business & Finance

David E. Lechner
Vice President for Business & Finance

RECOMMENDED: James B. Milliken
President

DATE: April 14, 2011

TO: The Board of Regents Addendum IX-B-3

Business Affairs

MEETING DATE: April 29, 2011

SUBJECT: Early construction of East Stadium Improvements at the University of Nebraska-Lincoln

RECOMMENDED ACTION: Approve an early start to selected portions of the East Stadium Improvements at the University of Nebraska-Lincoln (UNL)

PREVIOUS ACTION: March 11, 2011 – The Board of Regents approved a revised budget and scope for the East Stadium Improvements at UNL.

December 2, 2010 – The Board of Regents approved the selection of Clark Enersen Partners to provide design services for the East Stadium Improvements at UNL.

October 15, 2010 – The Board of Regents approved the program statement and budget for East Stadium Improvements at UNL.

EXPLANATION: The University has been working with the architect and construction manager (CM) to design and plan the construction of the project. Presentation of the Guaranteed Maximum Price (GMP) to the Business Affairs Committee (BAC) is not scheduled until June. Waiting for June BAC approval results in the loss of approximately 6 weeks of construction season before the first football game (September 3, 2011).

In light of several economic factors and construction issues, the project team has determined that early site work and early purchase of structural steel could avoid approximately \$365,000 in inflationary and remobilization costs. Early work includes modification of walks and ramps to the northeast of the project, utilities, and foundations. If work cannot begin until after the GMP is determined followed by BAC approval, the CM will lose one third of the available construction season as shifting work into the winter means construction conditions are less favorable. The campus recognizes the risk of committing construction funds prior to receipt of the GMP and believes adjustments can be made to ensure the project remains within the budget. All proposed early work must be done regardless of final design or schedule.

The early start has been reviewed and recommended for approval by the Business Affairs Committee.

Proposed start of construction May 2011
Proposed completion of construction July 2013

PROJECT COST: \$63,500,000

ON-GOING FISCAL Estimated Operating and Maintenance \$870,000

IMPACT:	1% Assessment	N/A
SOURCE OF FUNDS:	Current Budget	\$63,500,000
SPONSORS:	Tom Osborne Athletic Director	
	Christine A. Jackson Vice Chancellor for Business and Finance	
RECOMMENDED:	Harvey Perlman, Chancellor University of Nebraska-Lincoln	
DATE:	April 7, 2011	

TO: The Board of Regents Revised Item
Addendum IX-B-4

Business Affairs

MEETING DATE: April 29, 2011

SUBJECT: Fund B, University Program and Facilities Fees (UPFF):
2011-12 Allocation for the University of Nebraska-Lincoln.

RECOMMENDED ACTION: Approve the Fund B University Program and Facilities Fees (UPFF)
2011-12 Allocation for the University of Nebraska-Lincoln.

UPFF Fund B <u>Category</u>	Approved Allocation <u>2010-2011</u>	Recommended Allocation <u>2011-12</u>	
Facilities:			
Recreation	\$886,000	\$916,000	
Existing Debt			
Service	1,845,626	1,845,626	
Nebraska Unions	4,069,153	4,144,068	
Campus Recreation	5,253,025	5,522,628	
Health Center	5,771,887	5,926,627	
Transit Services	<u>442,005</u>	<u>412,000</u>	
Subtotal	18,247,696	18,766,969	
Proposed Recreation			
Facilities		<u>922,464</u>	
Total	<u>\$18,247,696</u>	<u>\$19,689,433</u>	
Cost/Student			<u>Increase</u>
Per Semester	\$441.30	\$460.25	\$18.95/4.3%

PREVIOUS ACTION: April 16, 2010 – The Board of Regents approved the 2010-11 Fund B allocation.

EXPLANATION: General policies governing the administration of University Program and Facilities Fees are set forth in § 5.9 of the Board of Regents' Policies of the University of Nebraska. This recommended allocation received appropriate student and administrative reviews as directed by Board of Regents policy. The proposed allocations are based on UPFF fees to be collected in 2011-12.

This fee increase includes two components: (1) the annual program allocation of funds and (2) a proposed new assessment for renovating UNL's campus recreation facilities. (UNL will present this capital project to the Board for its recommended approval in June 2011.)

While the 2011-12 recommended allocation amount in total represents a 5.9% increase, a UNL student's increased cost per semester is 4.3% because of anticipated higher enrollment. This increase is the first \$22 of a three-year series of increases, accumulating to \$60 per semester in Fall, 2013, to allow funding of a proposed recreation facilities enhancement

project that was approved by 72% of the students voting in an October 2010 campus-wide referendum.

Without the proposed new recreation facilities and a salary increase, the full-time student Fund B fee would have resulted in a decrease of \$11.55 per semester (-2.6%).

The portion of fee increase related to the student recreation facility enhancement has been reviewed by and is recommended for approval by the Business Affairs Committee.

PROJECT COST:	None
SOURCE OF FUNDS:	None
SPONSORS:	Juan N. Franco Vice Chancellor for Student Affairs Christine A. Jackson Vice Chancellor for Business & Finance
RECOMMENDED:	Harvey Perlman, Chancellor University of Nebraska-Lincoln
DATE:	April 7, 2011

TO: The Board of Regents Addendum IX-B-5

Business Affairs

MEETING DATE: April 29, 2011

SUBJECT: Fund B, University Program and Facilities Fees (UPFF):
2011-12 Allocation for the University of Nebraska at Omaha

RECOMMENDED ACTION: Approve the Fund B, University Program and Facilities Fees (UPFF) 2011-12 Allocation for the University of Nebraska at Omaha (UNO).

UPFF Fund B Category	Approved Allocation <u>2010-11</u>	Recommended Allocation <u>2011-12</u>	
Campus Recreation	\$1,071,166	\$1,152,847	
Student Organizations & Leadership Programs	374,372	394,598	
Milo Bail Student Center	559,784	587,773	
Milo Bail Student Center Bond Issue	1,013,231	1,013,564	
HPER Addition & Renovation Bond Issue	3,208,566	3,209,625	
Men's Athletics	637,116	668,972	
Women's Athletics	498,203	523,113	
Musical Groups	62,252	64,563	
Health Services	649,678	688,659	
Facilities	262,367	260,975	
Intercampus Shuttle	<u>1,474,840</u>	<u>1,548,582</u>	
TOTAL	<u>\$9,811,575</u>	<u>\$10,113,271</u>	
Cost/Student			
Per Semester:			<u>Increase</u>
Flat Fee	\$147.78	\$147.78	-
Per Hour	16.42	17.30	\$.88
 Average total fees ¹	 344.82	 355.38	 3.1%

¹Assumes 12 hours

PREVIOUS ACTION: April 16, 2010 – The Board of Regents approved the 2010-11 Fund B allocation.

EXPLANATION: General policies governing the administration of the University Program and Facilities Fees are set forth in § 5.9 of the *Board of Regents' Policies of the University of Nebraska*. This recommended allocation received appropriate student and administrative reviews as directed by Board of Regents policy.

The current 2010-11 Fund B portion of UPFF is a flat fee of \$147.78 plus \$16.42 per credit hour. The 2011-12 flat fee is proposed to remain at \$147.78 and the per credit hour fee is proposed to increase by \$0.88 to \$17.30. The Fund B increase provides for salaries, benefits and operating increases to the various groups listed above.

For a full-time student, this action represents a 3.1% increase from last year.

PROJECT COST: None

SOURCE OF FUNDS: N/A

SPONSORS: Terry Hynes
Senior Vice Chancellor for Academic & Student Affairs

William E. Conley
Vice Chancellor for Business & Finance

RECOMMENDED: John E. Christensen, Chancellor
University of Nebraska at Omaha

DATE: April 7, 2011

TO: The Board of Regents Addendum IX-B-6

Business Affairs

MEETING DATE: April 29, 2011

SUBJECT: Fund B, University Program and Facilities Fee (UPFF):
2011-12 Allocation for the University of Nebraska at Kearney (UNK)

RECOMMENDED ACTION: Approve the Fund B, University Program and Facilities Fee (UPFF)
2011-12 Allocation for the University of Nebraska at Kearney (UNK).

	Approved	Recommended
UPFF Fund B	Allocation	Allocation
<u>Category</u>	<u>2010-2011</u>	<u>2011-2012</u>
Health Services	\$784,000	\$782,000
Student Events	597,000	598,000
Facilities	814,000	800,000
Union	<u>504,000</u>	<u>505,000</u>
TOTAL	<u>\$2,699,000</u>	<u>\$2,685,000</u>

Cost/FT Student			<u>Increase</u>
Per Semester:	\$282	\$282	-

PREVIOUS ACTION: April 16, 2010 – The Board of Regents approved the 2010-11 Fund B allocation.

EXPLANATION: General policies governing the administration of the University Program and Facilities Fees are set forth in §5.9 of *the Board of Regents' Policies of the University of Nebraska*. This recommended allocation received appropriate student and administrative reviews as directed by Board of Regents' policy. The proposed allocations are based on the UPFF fees to be collected in 2011-12. For the second year in a row, there will be no changes in Fund B fees for 2011-12 at UNK.

PROJECT COST: None

SOURCE OF FUNDS: N/A

SPONSOR: Barbara L. Johnson
Vice Chancellor for Business & Finance

RECOMMENDED: Douglas A. Kristensen, Chancellor
University of Nebraska at Kearney

DATE: April 7, 2011

TO: The Board of Regents

Business Affairs

MEETING DATE: April 29, 2011

SUBJECT: Fund B, University Program and Facilities Fees (UPFF):
2011-12 Allocation for the University of Nebraska Medical Center

RECOMMENDED ACTION: Approve the Fund B, University Program and Facilities Fee (UPFF)
2011-12 Allocation for the University of Nebraska Medical Center.

<u>UPFF Fund B</u> <u>Category</u>	<u>Approved</u> <u>Allocation</u> <u>2010-11</u>	<u>Recommended</u> <u>Allocation</u> <u>2011-12</u>	
Student Health			
Services	\$383,440	\$383,440	
Supplemental			
Counseling	38,400	38,400	
Campus Recreation	<u>205,275</u>	<u>223,125</u>	
TOTAL	<u>\$627,115</u>	<u>\$644,965</u>	
Cost/FT Student			<u>Increase</u>
Per Semester:	\$157.25	\$162.25	\$5.00/3.2%

PREVIOUS ACTION: April 16, 2010 – The Board of Regents approved the 2010-11 Fund B allocation.

EXPLANATION: The 2011-2012 recommended allocation for UPFF Fund B is higher than the 2010-2011 allocation due to fee increases of \$5.00 / semester for Campus Recreation. The Campus Recreation fund is operating at a loss and the fee increase is a necessary measure for the fund to breakeven.

General policies governing the administration of University Program and Facilities Fees are set forth in § 5.9 of the *Board of Regents' Policies of the University of Nebraska*. This recommended allocation was reviewed by appropriate student representatives and administrative personnel as directed by Board of Regents policy. The proposed allocation is based on actual fees to be collected in 2011-12. The recommendation, if approved, will increase the Fund B Campus Recreation Facility Fee from \$57.50/semester to \$62.50/semester and maintain the Fund B Student Health Services/Supplemental Counseling Fee at \$99.75/semester.

The total fee increase is 3.2% per semester.

PROJECT COST: None

SOURCE OF FUNDS: None

SPONSOR: Donald S. Leuenberger
Vice Chancellor for Business & Finance

RECOMMENDED: Harold M. Maurer, Chancellor
University of Nebraska Medical Center

DATE: April 7, 2011

TO: The Board of Regents

Business Affairs

MEETING DATE: April 29, 2011

SUBJECT: Financing for the Truhlsen Eye Institute Project at the University of Nebraska Medical Center.

RECOMMENDED ACTION: Approve the attached Resolution relating to the Truhlsen Eye Institute Project at the University of Nebraska Medical Center which (1) approves the issuance of not to exceed \$20,800,000 principal amount of UNMC Eye Institute Bonds, Series 2011 by The University Nebraska Facilities Corporation pursuant to a Bond Resolution, and (2) authorizes the execution and delivery of a Financing Agreement, a Continuing Disclosure Agreement, a Tax Compliance Agreement, an Inducement Letter and a Preliminary Official Statement in connection with the sale of such Bonds, (3) authorizes the sale of such Bonds at a negotiated sale pursuant to a Bond Purchase Agreement and authorizes the Vice President for Business and Finance to determine interest rates (not to exceed a true interest cost of 4.00%), principal amounts, principal maturities and redemption provisions of such Bonds, and (4) approves the preparation and use of a final Official Statement.

PREVIOUS ACTION: October 23, 2009 – The Board of Regents approved the program statement for a new Eye Institute building on the campus of the University of Nebraska Medical Center and approved naming the building the “Stanley M. Truhlsen Eye Institute.”

EXPLANATION: The Project will construct a new state-of-the-art Eye Institute building to house the academic programs and faculty practice clinics of the Department of Ophthalmology and Visual Sciences, provide expanded outpatient services and increase clinical and translational research capacity in the areas of outpatient eye care, children’s eye care, as well as creating clinical research facilities and a regional diagnostic center.

The proposed project will construct a 54,500 square foot, multi-story building designed to complement other campus buildings on property recently purchased for campus growth located at 40th and Leavenworth Streets. The site is convenient to the Weigel Williamson Center for Visual Rehabilitation and the Home Instead Center for Successful Aging.

The building will be designed to accommodate the future addition of an ambulatory eye surgery center and additional clinic space, when and if approved.

The construction of the building will establish a center for patient care, clinical research and education in ophthalmology, unparalleled in the region. The new Truhlsen Eye Institute will enable UNMC to meet its educational mission to provide skilled eye care providers to all Nebraskans by increasing resident class size and providing additional

fellowship training opportunities. It will enable UNMC to attract the best and brightest academic physicians, students and research scientists who will lead the effort to bring new cures to patients.

The Project is being constructed through the use of bond proceeds, with repayment through private donations, and UNMC cash funds.

The University of Nebraska Facility Corporation Bonds funding the project will be issued with a final maturity of up to 10 years. Current bond market conditions would provide an average interest rate of approximately 3.30% on the Bonds. The annual debt service (principal and interest) for the Series 2011 Bonds will match the anticipated receipt of the private donations for this purpose.

The Intermediate design was reviewed and approved the Business Affairs Committee on April 15, 2011. The financing also has been reviewed and is recommended for approval by the Committee.

Members of the public and the news media may obtain a copy of the proposed documents in the office of the University Corporation Secretary, 3835 Holdrege Street, Lincoln, Nebraska 68583, between the hours of 8:00 a.m. and 5:00 p.m., Monday through Friday, except University holidays.

PROJECT COST:	Proposed size of Issue	\$20,800,000
	Less: Deposit to Debt Service Reserve	(2,040,000)
	Cushion for Interest Rate Changes and OID/OIP	(400,000)
	Costs of Issuance, Rounding	<u>(360,000)</u>
	Bond proceeds, net	18,000,000
	UNMC Cash funds	<u>2,000,000</u>
	Total Project Cost	<u>\$20,000,000</u>

SOURCE OF FUNDS: Private Donations, UNMC Cash Funds

SPONSORS: Donald S. Leuenberger
Vice Chancellor for Business & Finance

David E. Lechner
Vice President for Business & Finance

RECOMMENDED: Harold M. Maurer, Chancellor
University of Nebraska Medical Center

DATE: April 29, 2011

RESOLUTION

I.

BE IT RESOLVED BY THE BOARD OF REGENTS OF THE UNIVERSITY OF NEBRASKA (the “**Board**”) that the Financing Agreement between the Board and The University of Nebraska Facilities Corporation (the “**Corporation**”) dated the date determined jointly by the Vice President for Business and Finance and the Secretary/Treasurer of the Corporation with respect to financing the Truhlsen Eye Institute Project at the University of Nebraska Medical Center (the “**Project**”), in the form attached hereto as **Exhibit A** and made a part hereof by reference, is hereby approved, adopted, ratified and affirmed together with such changes, additions, deletions or modifications as the Chair of the Board, University counsel and bond counsel shall approve as being in the best interests of the Board and the University of Nebraska.

II.

BE IT FURTHER RESOLVED BY THE BOARD that the issuance, sale and delivery by the Corporation of its UNMC Eye Institute Bonds, Series 2011 in an aggregate principal amount not to exceed \$20,800,000, dated the date determined by the Secretary/Treasurer of the Corporation (the “**Bonds**”), together with the terms and provisions of the Bond Resolution dated the date determined by the Secretary/Treasurer of the Corporation adopted by the Board of Directors of the Corporation (the “**Bond Resolution**”), a copy of which is attached hereto as **Exhibit B** and pursuant to which the Bonds will be issued, are hereby approved, adopted, ratified and affirmed together with such changes, additions, deletions or modifications as the Chair of the Board, University counsel and bond counsel shall approve as being in the best interests of the Board and the University of Nebraska. The Vice President for Business and Finance, on behalf of the Board, is hereby authorized and directed to approve the aggregate principal amount of Bonds to be issued (not to exceed \$20,800,000) and the principal maturities, interest rates and redemption provisions thereof and to take all necessary actions and execute all necessary documents to effect the sale of the Bonds.

III.

BE IT FURTHER RESOLVED BY THE BOARD that the Vice President for Business and Finance is hereby authorized and directed to approve the sale of the Bonds by negotiated sale at an average interest cost not to exceed four percent (4.00%) to Ameritas Investment Corp. (the “**Underwriter**”) pursuant to (a) a Bond Purchase Agreement between the Corporation and the Underwriter and (b) an Inducement Letter from the Board to the Corporation and the Underwriter, each dated the date determined jointly by the Vice President for Business and Finance and the Secretary/Treasurer of the Corporation, in the forms presented to the Board as **Exhibit C** and **Exhibit D**, respectively, and made a part hereof by this reference, which Bond Purchase Agreement and Inducement Letter are hereby adopted, ratified, affirmed and approved, together with such changes or modifications as the Chair of the Board, University counsel and bond counsel shall approve as being in the best interests of the Board and the University of Nebraska.

IV.

BE IT FURTHER RESOLVED BY THE BOARD that the Preliminary Official Statement of the Corporation with respect to the Bonds, dated the date determined jointly by the Vice President for Business and Finance and the Secretary/Treasurer of the Corporation in the form presented to the Board as **Exhibit E**, together with such changes or modifications as the Chair of the Board, University counsel and bond counsel shall approve as being in the best interests of the University of Nebraska, and the final Official Statement to be dated as of the date of sale with respect to the Bonds, which final Official Statement shall include the terms of the Bonds, are hereby approved and authorized for delivery to the purchasers of the Bonds.

V.

BE IT FURTHER RESOLVED BY THE BOARD that (a) the Tax Compliance Agreement dated the date determined jointly by the Vice President for Business and Finance and the Secretary/Treasurer of the Corporation among the Board, the Corporation and the Trustee named in the Bond Resolution (the “**Trustee**”) to satisfy the requirements of Internal Revenue Code of 1986, as

amended, and the applicable regulations thereunder with respect to the Bonds in the form attached hereto as **Exhibit F** and made a part hereof by reference, and (b) the Continuing Disclosure Agreement dated the date determined by the Vice President for Business and Finance between the Board and the Trustee to satisfy the requirements of Rule 15c2-12 of the Securities and Exchange Commission with respect to the Bonds in the form attached hereto as **Exhibit G** and made a part hereof by reference, are each hereby approved, adopted, ratified and affirmed, together with such changes, additions, deletions or modifications and the Chair of the Board, University counsel and bond counsel shall approve as being in the best interests of the University of Nebraska.

VI.

~~**BE IT FURTHER RESOLVED BY THE BOARD** that the members and officers of the Board and the officials of the University of Nebraska, or any of them, be, and they hereby are, and each of them hereby is, authorized and directed to take any and all action including the execution of all papers, certificates, receipts and documents, they or any of them may deem necessary or desirable to effectuate, in accordance with the terms of this Resolution the delivery of and payment for the Bonds.~~

BE IT RESOLVED BY THE BOARD that such persons as may be authorized by the President and the Chairperson of the Board of Regents, are hereby authorized and directed to take any and all action, including the execution of such documents, as is needed to effectuate, in accordance with the terms of this Resolution, the delivery of and payment for the Bonds.

VII.

BE IT FURTHER RESOLVED BY THE BOARD that all actions heretofore taken for or on behalf of, or in the name of the Board, by any of the members of officers thereof or by any officers of the University of Nebraska with respect to the authorization or offering for sale of the Bonds are hereby validated, ratified and confirmed.

C. FOR INFORMATION ONLY

1. University of Nebraska Strategic Planning Framework Addendum X-C-1
2. University of Nebraska Strategic Framework Accountability Measures Addendum X-C-2
3. Calendar of establishing and reporting accountability measures Addendum X-C-3
4. University of Nebraska Strategic Dashboard Indicators Addendum X-C-4
5. Board of Regents agenda items related to the University of Nebraska Strategic Framework Addendum X-C-5

TO: The Board of Regents
Academic Affairs

MEETING DATE: April 29, 2011

SUBJECT: University of Nebraska Strategic Framework

RECOMMENDED ACTION: For Information Only

PREVIOUS ACTION: None

EXPLANATION: Attached is the current version of the Strategic Framework document.

SPONSOR: James B. Milliken, President
University of Nebraska

DATE: April 8, 2011

INVESTING IN NEBRASKA'S FUTURE

Strategic Planning Framework

2010-2013

The University of Nebraska is a four-campus, public university which was created and exists today to serve Nebraskans through quality teaching, research, and outreach and engagement. We strive to be the best public university in the country as measured by the impact we have on our people and our state, and through them, the world. To do that, we must compete effectively with other institutions around the world for talented students and faculty. The future of Nebraska is closely tied to that of its only public university, and this framework guides university-wide and campus planning to help build and sustain a Nebraska that offers its citizens educational and economic opportunity and a high quality of life.

The framework consists of six overarching goals emphasizing access and affordability, quality academic programs, workforce and economic development, research growth, engagement with the state, and accountability. Each goal has a number of related objectives, strategies and accountability measures developed for Board and university-wide monitoring over a multi-year period. Companion documents include an implementation tool with metrics and the schedule for monitoring by the Board, as well as a dashboard reflecting progress.

The university's efforts will not be limited to these priorities, as we expect to be able to measure progress in other areas given the interrelatedness of the objectives, other priorities of the Board and the President, and the ongoing strategic planning efforts of the four campuses. Campus plans are consistent with this framework and operate within its broader goals. Each campus has established a set of quality indicators that provide a means to evaluate achievement and momentum related to its principal objectives.

1. The University of Nebraska will provide the opportunity for Nebraskans to enjoy a better life through access to high quality, affordable undergraduate, graduate and professional education.
 - a. The university will strive to increase affordability and ensure qualified students are not denied access based on economic circumstances.
 - i. Secure state funding sufficient to support access to high quality programs.*
 - ii. Keep tuition increases moderate and predictable for students and families, consistent with goals of both access and quality.*
 - iii. Expand need-based financial aid and effectively market opportunity and major aid programs (e.g. Collegebound Nebraska, Buffett Scholars, Thompson Learning Communities).*
 - b. Increase the percentage of Nebraska high school graduates (the state “college-going rate”) who enroll at and graduate from the university.
 - i. Increase enrollment, consistent with quality imperatives, to serve Nebraska’s goals for increased educational attainment.*
 - ii. Increase each campus’s undergraduate freshman-to-sophomore retention rate each year, with a goal of exceeding the average of its peer institutions.*
 - iii. Increase each campus’s undergraduate six-year graduation rate, with a goal of exceeding the average of its peer institutions.*
 - c. Increase the diversity of those who enroll at and graduate from the university, employing measures permitted by state and federal law.
 - i. Engage in partnerships with other higher education institutions, K-12, and the private sector to increase diversity of students who seek a post-secondary education, employing measures permitted by state and federal law.*
 - d. Expand lifelong educational opportunities, including those for non-traditional and transfer students.
 - e. Promote adequate student preparation for success in higher education.
 - i. Engage in pilot programs with Nebraska high schools for development of high school academies in partnership with the university.*
 - ii. Provide timely and usable information to middle school students, parents, teachers and school administrators.*

- f. Promote ease of transfer to the university from other higher education institutions.
 - i. *Improve programs for transfer from community colleges, state colleges and other higher education institutions.*
 - g. Expand distance education programs, taking advantage of university-wide marketing and efficiencies and campus role and mission, strengths and entrepreneurship.
2. The University of Nebraska will build and sustain undergraduate, graduate and professional programs of high quality with an emphasis on excellent teaching.
- a. Recruit and retain exceptional faculty and staff, with special emphasis on building and sustaining diversity.
 - i. *To help ensure competitiveness, faculty salaries and incentives (awarded on the basis of merit) and fringe benefits should exceed the average of peer institutions.*
 - ii. *Develop and maintain programs to enhance work/life conditions of faculty and staff, including overall campus climate.*
 - iii. *Each campus shall endeavor to meet the university's ongoing commitments to faculty diversity, employing measures permitted by state and federal law.*
 - iv. *Increase support for professorships and named/distinguished chairs.*
 - b. Pursue excellence through focus on targeted programs in areas of importance to Nebraska where the university can be a regional, national and/or international leader (e.g. agriculture and natural resources, life sciences, information technology and architectural engineering).
 - i. *Programs of Excellence funding shall be increased when practicable and results of allocations shall be periodically reviewed for impact.*
 - ii. *Resource allocation shall take advantage of distinct campus roles and missions to achieve overall university goals.*
 - iii. *Campuses are encouraged to collaborate to achieve overall university goals.*
 - c. Provide opportunities for global engagement of faculty through international teaching, research and outreach exchanges, fellowships and collaborations.
 - i. *Increase faculty participation in Fulbright and related programs.*

3. The University of Nebraska will play a critical role in building a talented, competitive workforce and knowledge-based economy in Nebraska in partnership with the state, private sector and other educational institutions.
 - a. Work to stem and reverse the out-migration of graduates and knowledge workers.
 - b. Increase proportion of the most talented Nebraska high school students who attend the University of Nebraska.
 - i. *Increase enrollment of Nebraska students ranked in top 25% of their high school class.*
 - ii. *Increase support for merit-based scholarships.*
 - c. To attract talent to the state, increase the number of nonresident students who enroll at the university.
 - i. *Increase enrollment of nonresident undergraduate students at UNL, UNO and UNK.*
 - d. To adequately prepare students for the global economy, significantly increase opportunities for international study and engagement.
 - i. *Significantly increase the number of undergraduates studying abroad, with the goal of ultimately providing the opportunity for every undergraduate to study abroad.*
 - ii. *Significantly increase the number of international undergraduates and graduates studying at the university.*
 - e. Encourage and facilitate the commercialization of research and technology to benefit Nebraska.
 - f. Develop and strengthen internship and service learning opportunities with business, education, government, military, and nonprofit organizations.
 - g. Engage in partnerships with government and the private sector to develop regional economic strength.
 - h. Pursue excellence in educational attainment aligned with the long-term interests of the state.
 - i. *Analyze areas of future workforce demand, including job and self-employment opportunities in non-growth rural communities and economically disadvantaged urban areas, and strengthen or develop curricula and programs appropriate to the university in alignment with those areas.*
 - ii. *Develop educational programs that prepare students for the flexibility required to respond to the uncertainty of future workforce demands.*

iii. *Develop distance education and other educational programs that permit Nebraskans to prepare for jobs and opportunities to meet future workforce demands.*

4. The University of Nebraska will pursue excellence and regional, national and international competitiveness in research and scholarly activity, as well as their application, focusing on areas of strategic importance and opportunity.

a. Increase external support for research and scholarly activity.

i. *Increase federal support for instruction, research and development, and public service.*

ii. *Inventory and forecast infrastructure (physical facilities, information technology, equipment) necessary to support continued growth in research activity and secure private and public support to eliminate deficiencies.*

b. Increase undergraduate and graduate student participation in research and its application.

c. Encourage and support interdisciplinary, intercampus, inter-institutional and international collaboration.

d. Improve the quantity and quality of research space through public and private support.

e. Focus resources on areas of strength in research where the university has the opportunity for regional, national and international leadership and in areas of strategic importance to the health and economic strength of Nebraska (e.g. agriculture and life sciences; natural resources, especially water; prevention and cure of diseases such as cancer; and early childhood education).

i. *Invest resources through the Nebraska Research Initiative, Programs of Excellence and other sources to build capacity and excellence in research.*

5. The University of Nebraska will serve the entire state through strategic and effective engagement and coordination with citizens, businesses, agriculture, other educational institutions, and rural and urban communities and regions.

a. Support economic growth, health and quality of life through policy initiatives consistent with university mission.

b. Recognize and reward faculty innovation and effectiveness in outreach and engagement.

- c. Support Nebraska's economic development.
 - i. Partner and collaborate with government and the private sector to attract, retain, and spur business development and economic opportunity.*
 - ii. Use university research and other resources to foster more effective relationships with the private sector.*
 - d. Support entrepreneurship education, training and outreach.
 - e. Collaborate with the public and private sectors to build successful regional, multistate, international linkages.
 - f. Use university resources to engage Nebraskans outside cities where our major campuses are located.
 - i. Effectively use the Nebraska Rural Initiative and other university-wide and campus programs to develop excellence in supporting community development while creating quality economic opportunities throughout rural Nebraska.*
 - ii. Effectively use regional research and extension operations and statewide extension for engagement with the university.*
6. The University of Nebraska will be cost effective and accountable to the citizens of the state.
- a. Support the development of a sustainable university environment.
 - i. Build a comprehensive long-range capital facilities planning process and provide a six-year capital construction plan, updated quarterly.*
 - ii. Implement the second phase of LB 605 to repair, renovate and/or replace specific university facilities.*
 - iii. Campuses shall pursue energy efficiency.*
 - iv. Campuses shall promote through policies and scheduling effective utilization of university facilities.*
 - b. Maintain a safe environment for students, faculty, staff and visitors.
 - i. Develop and regularly monitor fire safety plans and procedures.*
 - ii. Collaborate with state and local government in disaster planning.*
 - iii. Develop and test campus plans for emergencies and disasters.*

- c. Allocate resources in an efficient and effective manner.
 - i. Use best practices in procurement and construction and other business engagement.*
 - ii. Leverage roles and missions of campuses to find savings and cost reductions through academic, administrative and business process efficiencies and effectiveness.*
 - iii. Develop and report on matrix of business health indicators, including university debt.*
- d. Maximize and leverage non-state support.
 - i. Promote entrepreneurship and revenue-generating opportunities.*
 - ii. Collaborate with the University of Nebraska Foundation to secure private support for university priorities.*
- e. Create and report performance and accountability measures.
- f. Maximize potential of information technology to support the university's activities.
- g. Provide accurate and transparent information to the public about college costs and student learning and success outcomes.
 - i. Participate in the Voluntary System of Accountability.*
 - ii. Participate in the National Survey of Student Engagement.*
 - iii. Monitor student achievements on licensing and professional examinations.*
 - iv. Participate and measure effectiveness of national pilot projects on learning assessment with the goal of adopting university measurements.*
- h. Implement awareness and education programs to assist all students in management of personal financial matters.

TO: The Board of Regents
Academic Affairs

MEETING DATE: April 29, 2011

SUBJECT: University of Nebraska Strategic Framework Accountability Measures

RECOMMENDED ACTION: For Information Only

PREVIOUS ACTION: None

EXPLANATION: Attached is the current version of the Strategic accountability measures.

SPONSOR: James B. Milliken, President
University of Nebraska

DATE: April 8, 2011

INVESTING IN NEBRASKA’S FUTURE

Strategic Planning Framework

2010-2013

Accountability Measures

1. State Funding (1-a-i)

Secure state funding sufficient to support access to high quality programs.

Reporting Period	Accountability Measure	Report Date	Reporting Committee
FY 2011-12	Attain sufficient state funding and manage the cost effectiveness of the University so that tuition increases do not exceed 6%.	June 2011	Business
FY 2012-13	Attain sufficient state funding and manage the cost effectiveness of the University so that tuition increases do not exceed 6%.	June 2012	Business
FY 2013-14	Attain sufficient state funding and manage the cost effectiveness of the University so that tuition increases do not exceed 6%.	June 2013	Business

2. Tuition (1-a-ii)

Keep tuition increases moderate and predictable for students and families, consistent with goals of both access and quality.

Reporting Period	Accountability Measure	Report Date	Reporting Committee
FY 2011-12	Attain sufficient state funding and manage the cost effectiveness of the University so that tuition increases do not exceed 6%.	June 2011	Business
FY 2012-13	Attain sufficient state funding and manage the cost effectiveness of the University so that tuition increases do not exceed 6%.	June 2012	Business
FY 2013-14	Attain sufficient state funding and manage the cost effectiveness of the University so that tuition increases do not exceed 6%.	June 2013	Business

3. Need-based Financial Aid (1-a-iii)

Expand need-based financial aid and effectively market opportunity and major aid programs (e.g. Collegebound Nebraska, Buffett Scholars, Thompson Learning Communities).

Reporting Period	Accountability Measure	Report Date	Reporting Committee
FY 2010-11	1) Report on the implementation, including results, of the plan to expand the Tuition Assistance Program. 2) Raise at least \$6 million in private funds (endowment and/or spendable).	Sept. 2011	Academic
FY 2011-12	Raise at least \$6 million in private funds (endowment and/or spendable).	Sept. 2012	Academic
FY 2012-13	Raise at least \$6 million in private funds (endowment and/or spendable).	Sept. 2013	Academic

4. Enrollment (1-b-i)

Increase enrollment, consistent with quality imperatives, to serve Nebraska's goals for increased educational attainment.

Reporting Period	Accountability Measure	Report Date	Reporting Committee
Fall 2011	1) Increase undergraduate enrollment by 1.5% annually. 2) Maintain a retention rate of 80% or above for undergraduate students.	Oct. 2011	Academic
Fall 2012	1) Increase undergraduate enrollment by 1.5% annually. 2) Maintain a retention rate of 80% or above for undergraduate students.	Nov. 2012	Academic
Fall 2013	1) Increase undergraduate enrollment by 1.5% annually. 2) Maintain a retention rate of 80% or above for undergraduate students.	Nov. 2013	Academic

5. Graduation Rates (1-b-iii)

Increase each campus's undergraduate six-year graduation rate, with a goal of exceeding the average of its peer institutions.

Reporting Period	Accountability Measure	Report Date	Reporting Committee
2009-10 Academic Year	1) Each campus will maintain or reach the average six-year graduation rate of its peers. 2) All prospective and current undergraduate students are regularly informed and assisted in obtaining the benefit of the University's four-year graduation guarantee.	Jan. 2012	Academic
2010-11 Academic Year	1) Each campus will maintain or reach the average six-year graduation rate of its peers. 2) All prospective and current undergraduate students are regularly informed and assisted in obtaining the benefit of the University's four-year graduation guarantee.	Jan. 2013	Academic
2011-12 Academic Year	1) Each campus will maintain or reach the average six-year graduation rate of its peers. 2) All prospective and current undergraduate students are regularly informed and assisted in obtaining the benefit of the University's four-year graduation guarantee.	Jan. 2014	Academic

6. Faculty Merit Compensation (2-a-i)

To help ensure competitiveness, faculty salaries and incentives (awarded on the basis of merit) and fringe benefits should exceed the average of peer institutions.

Reporting Period	Accountability Measure	Report Date	Reporting Committee
FY 2010-11	<ol style="list-style-type: none"> 1) All salary increases should be awarded, to the extent possible, on the basis of merit. 2) Average faculty salaries on each campus shall meet or exceed the midpoint of peers. 3) Once the midpoint of peers has been met or exceeded, an exceptional merit fund shall be established to provide additional incentives related to performance. 	April 2011	Business
FY 2011-12	<ol style="list-style-type: none"> 1) All salary increases should be awarded, to the extent possible, on the basis of merit. 2) Average faculty salaries on each campus shall meet or exceed the midpoint of peers. 3) Once the midpoint of peers has been met or exceeded, an exceptional merit fund shall be established to provide additional incentives related to performance. 	April 2012	Business
FY 2012-13	<ol style="list-style-type: none"> 1) All salary increases should be awarded, to the extent possible, on the basis of merit. 2) Average faculty salaries on each campus shall meet or exceed the midpoint of peers. 3) Once the midpoint of peers has been met or exceeded, an exceptional merit fund shall be established to provide additional incentives related to performance. 	April 2013	Business

7. Faculty Diversity (2-a-iii)

Each campus shall endeavor to meet the university's ongoing commitments to faculty diversity, employing measures permitted by state and federal law.

Reporting Period	Accountability Measure	Report Date	Reporting Committee
Fall 2010	<ol style="list-style-type: none"> 1) Increase faculty diversity, employing measures permitted by state and federal law. 2) Report on the diversity of the faculty and the relative rate of change in faculty composition as compared to peers. 	Sept. 2011	Academic
Fall 2011	<ol style="list-style-type: none"> 1) Increase faculty diversity, employing measures permitted by state and federal law. 2) Report on the diversity of the faculty and the relative rate of change in faculty composition as compared to peers. 	Sept. 2012	Academic
Fall 2012	<ol style="list-style-type: none"> 1) Increase faculty diversity, employing measures permitted by state and federal law. 2) Report on the diversity of the faculty and the relative rate of change in faculty composition as compared to peers. 	Sept. 2013	Academic

8. Nebraska Top 25% (3-b-i)*Increase enrollment of Nebraska students ranked in top 25% of their high school class.*

Reporting Period	Accountability Measure	Report Date	Reporting Committee
Fall 2011	Increase enrollment of first-time freshmen ranked in the top quartile of their high school graduating class to 50.0%.	Oct. 2011	Academic
Fall 2012	Maintain enrollment of first-time freshmen ranked in the top quartile of their high school graduating class at 50.0% or greater.	Nov. 2012	Academic
Fall 2013	Maintain enrollment of first-time freshmen ranked in the top quartile of their high school graduating class at 50.0% or greater.	Nov. 2013	Academic

9. Merit-based Scholarships (3-b-ii)*Increase support for merit-based scholarships.*

Reporting Period	Accountability Measure	Report Date	Reporting Committee
FY 2010-11	Raise at least \$6 million in private funds (endowment and/or spendable).	Sept. 2011	Academic
FY 2011-12	Raise at least \$6 million in private funds (endowment and/or spendable).	Sept. 2012	Academic
FY 2012-13	Raise at least \$6 million in private funds (endowment and/or spendable).	Sept. 2013	Academic

10. Nonresident Student Enrollment (3-c-i)*Increase enrollment of nonresident undergraduate students at UNL, UNO and UNK.*

Reporting Period	Accountability Measure	Report Date	Reporting Committee
Fall 2011	Increase the number of new nonresident undergraduate students by 1.5% percent annually.	Oct. 2011	Academic
Fall 2012	Increase the number of new nonresident undergraduate students by 1.5% percent annually.	Nov. 2012	Academic
Fall 2013	Increase the number of new nonresident undergraduate students by 1.5% percent annually.	Nov. 2013	Academic

11. Workforce Development (3-h-i and 3-h-iii)

Analyze areas of future workforce demand, including job and self-employment opportunities in non-growth rural communities and economically disadvantaged urban areas, and strengthen or develop curricula and programs appropriate to the university in alignment with those areas. (3-h-i) Develop distance education and other educational programs that permit Nebraskans to prepare for jobs and opportunities to meet future workforce demands. (3-h-iii)

Reporting Period	Accountability Measure	Report Date	Reporting Committee
Fall 2010	Index and analyze faculty research that may contribute to new workforce opportunities.	March 2011 Delayed to April 2011	Outreach
Fall 2011	Review new internal and external research on workforce needs and update categories of employment for purposes of aligning university programs to changing needs.	March 2012	Outreach
Fall 2012	Address program alignment revisions to meet workforce needs based on Fall 2011 data.	March 2013	Outreach

12. Research (4-a-i)

Increase federal support for instruction, research and development, and public service.

Note: On March 11, 2011, the metric for the University of Nebraska at Kearney was referred to the Academic Affairs Committee of the Board of Regents for discussion and a report/recommendation at a future date.

Reporting Period	Accountability Measure	Report Date	Reporting Committee
FY 2010-11	<ol style="list-style-type: none"> 1) Increase UNL and UNMC federal research awards from all federal agencies at a rate 20% higher per year than weighted total national federal awards per year on three-year rolling average. 2) For UNO and UNK, achieve seven percent compounded growth annually, continuing progress toward the ten-year goal of doubling sponsored awards for instruction, research and public service from all sources over FY 2005-06 awards of approximately \$11.2 million and \$2.3 million, respectively. 	March 2012	Academic
FY 2011-12	<ol style="list-style-type: none"> 1) Increase UNL and UNMC federal research awards from all federal agencies at a rate 20% higher per year than weighted total national federal awards per year on three-year rolling average. 2) For UNO and UNK, achieve seven percent compounded growth annually, continuing progress toward the ten-year goal of doubling sponsored awards for instruction, research and public service from all sources over FY 2005-06 awards of approximately \$11.2 million and \$2.3 million, respectively. 	March 2013	Academic
FY 2012-13	<ol style="list-style-type: none"> 1) Increase UNL and UNMC federal research awards from all federal agencies at a rate 20% higher per year than weighted total national federal awards per year on three-year rolling average. 2) For UNO and UNK, achieve seven percent compounded growth annually, continuing progress toward the ten-year goal of doubling sponsored awards for instruction, research and public service from all sources over FY 2005-06 awards of approximately \$11.2 million and \$2.3 million, respectively. 	March 2014	Academic

13. Entrepreneurship (5-d)

Support entrepreneurship education, training and outreach.

Reporting Period	Accountability Measure	Report Date	Reporting Committee
Spring 2011	<ol style="list-style-type: none"> 1) Increase training hours invested by program participants by 5% of 83,940. 2) Increase number of clients assisted by 5% of 10,904. 3) Increase number of SBIR/STTR applications by 10% of 70. 4) Increase number of SBIR/STTR awards by 5% of 18. 5) Increase investment in NU assisted companies by 10% of \$56,056,229. 6) Increase NU assisted business start-ups and transitions by 5% of 460. 	April 2011	Outreach
Spring 2012	Evaluate and modify annual targets as appropriate.	April 2012	Outreach
Spring 2013	Evaluate and modify annual targets as appropriate.	April 2013	Outreach

14. LB 605 (6-a-ii)

Implement the second phase of LB 605 to repair, renovate and/or replace specific university facilities.

A capstone report on LB 605 was presented to the Board of Regents in January 2011.

15. Business Process Efficiencies (6-c-ii)

Leverage roles and missions of campuses to find savings and cost reductions through academic, administrative and business process efficiencies and effectiveness.

Reporting Period	Accountability Measure	Report Date	Reporting Committee
2008 Calendar Year	Expenditures: Drive strategic investment through Programs of Excellence, reallocations	TBD	Business
2009 Calendar Year	Expenditures: Drive strategic investment through Programs of Excellence, reallocations	TBD	Business
2010 Calendar Year	Expenditures: Drive strategic investment through Programs of Excellence, reallocations	TBD	Business
2011 Calendar Year	<ol style="list-style-type: none"> 1) Short-Term Cash/Investments: Exceed average of similar fund types 2) Endowments: Exceed average of similar fund types 3) Debt: Maintain Aa2 rating; exceed 1.15 coverage 4) Capital: Capital Queue 5) Expenditures: Drive strategic investment through Programs of Excellence, reallocations 6) Human Resources: Meet midpoint of peers in faculty and staff salaries 7) Information Technology: report on implementation of SIS and SAP 	<ol style="list-style-type: none"> 1) June 2011 2) December 2011 3) December 2011 4) Quarterly 5) TBD 6) April 2011 7) SIS, March/Sept. 2011; SAP, Sept. 2011 	Business

2012 Calendar Year	<ol style="list-style-type: none"> 1) Short-Term Cash/Investments: Exceed average of similar fund types 2) Endowments: Exceed average of similar fund types 3) Debt: Maintain Aa2 rating; exceed 1.15 coverage 4) Capital: Report on Capital Queue 5) Expenditures: Drive strategic investment through Programs of Excellence, reallocations 6) Human Resources: Meet midpoint of peers in faculty and staff salaries 7) Information Technology: report on implementation of SIS and SAP 	<ol style="list-style-type: none"> 1) 2nd Quarter 2012 2) 4th Quarter 2012 3) 4th Quarter 2012 4) Quarterly 5) TBD 6) 2nd Quarter 2012 7) SIS, 1st and 3rd Quarter 2012; SAP, 3rd Quarter 2012 	Business
2013 Calendar Year	<ol style="list-style-type: none"> 1) Short-Term Cash/Investments: Exceed average of similar fund types 2) Endowments: Exceed average of similar fund types 3) Debt: Maintain Aa2 rating; exceed 1.15 coverage 4) Capital: Report on Capital Queue 5) Expenditures: Drive strategic investment through Programs of Excellence, reallocations 6) Human Resources: Meet midpoint of peers in faculty and staff salaries 7) Information Technology: report on implementation of SIS and SAP 	<ol style="list-style-type: none"> 1) 2nd Quarter 2013 2) 4th Quarter 2013 3) 4th Quarter 2013 4) Quarterly 5) TBD 6) 2nd Quarter 2013 7) SIS, 1st and 3rd Quarter 2012; SAP, 3rd Quarter 2013 	Business

16. Student Learning Assessment (6-g)

Provide accurate and transparent information to the public about college costs and student learning and success outcomes.

Reporting Period	Accountability Measure	Report Date	Reporting Committee
Fall 2010	<ol style="list-style-type: none"> 1) Annual or other periodic review, as available, by the Board of performance on standardized examinations and surveys, including the National Survey of Student Engagement and professional licensure examinations. 2) Annual review by the Board of participation in pilot programs to measure student learning outcomes, such as the Collegiate Learning Assessment. 	April 2011	Academic
Fall 2011	<ol style="list-style-type: none"> 1) Annual or other periodic review, as available, by the Board of performance on standardized examinations and surveys, including the National Survey of Student Engagement and professional licensure examinations. 2) Annual review by the Board of participation in pilot programs to measure student learning outcomes, such as the Collegiate Learning Assessment. 	April 2012	Academic
Fall 2012	<ol style="list-style-type: none"> 1) Annual or other periodic review, as available, by the Board of performance on standardized examinations and surveys, including the National Survey of Student Engagement and professional licensure examinations. 2) Annual review by the Board of participation in pilot programs to measure student learning outcomes, such as the Collegiate Learning Assessment. 	April 2013	Academic

TO: The Board of Regents
Academic Affairs

MEETING DATE: April 29, 2011

SUBJECT: University of Nebraska Calendar of establishing and reporting
accountability measures

RECOMMENDED ACTION: For Information Only

PREVIOUS ACTION: None

EXPLANATION: Attached is a calendar of establishing and reporting accountability
measures.

SPONSOR: James B. Milliken, President
University of Nebraska

DATE: April 8, 2011

Strategic Framework Accountability Measure Reporting and Updating Calendar

Revised March 12, 2011

<u>Board Meeting Date</u>	<u>Academic Affairs Committee</u>	<u>Business Affairs Committee</u>	<u>Outreach and Economic Development</u> <u>Ad Hoc Committee</u>
April 29, 2011	Student Learning Assessment [6-g]	Faculty Merit Compensation [2-a-i] Administrative/Business Efficiencies [6-c-ii] <i>(Report on Human Resources)</i>	Entrepreneurship [5-d] Workforce Development [3-h-i & iii] <i>(Previously scheduled for March 2011)</i>
May 27, 2011	UNK campus visit with discussion of campus strategic plan and performance indicators.		
June 17, 2011	None	State Funding [1-a-i] Tuition [1-a-ii] Administrative/Business Efficiencies [6-c-ii] <i>(Report on Short-term Cash/Investments, Capital Queue)</i>	None
September 9, 2011	Need-based Financial Aid [1-a-iii] Faculty Diversity [2-a-iii] Merit-based Scholarships [3-b-ii]	Administrative/Business Efficiencies [6-c-ii] <i>(Report on SIS, SAP, Capital Queue)</i>	None
October 28, 2011	Enrollment [1-b-i] Nebraska Top 25% [3-b-i] Nonresident Student Enrollment [3-c-i]	None	None
December 8, 2011	None	Administrative/Business Efficiencies [6-c-ii] <i>(Report on Endowments, Debt, Capital Queue)</i>	None
January 27, 2012	Graduation Rates [1-b-iii]	None	None
February 2012	UNL or UNMC campus visit with discussion of campus strategic plan and performance indicators.		
March 2012	Research [4-a-i]	Administrative/Business Efficiencies [6-c-ii] <i>(Report on SIS, Capital Queue)</i>	Workforce Development [3-h-i & iii]

TO: The Board of Regents
Academic Affairs

MEETING DATE: April 29, 2011

SUBJECT: University of Nebraska Strategic Dashboard Indicators

RECOMMENDED ACTION: For Information Only



















PREVIOUS ACTION: None

EXPLANATION: Attached is the current version of the Strategic Framework Indicators.

SPONSOR: James B. Milliken, President
University of Nebraska

DATE: April 8, 2011

University of Nebraska Strategic Dashboard Indicators (April 29, 2011)

State Funding Change (Indicator 1.a.i) FY2010-11			Tuition Change (Indicator 1.a.ii) FY2010-11			Enrollment Change (Indicator 1.b.i) Fall 2010		
<u>Target</u>	<u>Performance</u>		<u>Target</u>	<u>Performance</u>		<u>Target</u>	<u>Performance</u>	
	Funding + cost mgmt = <6% tuition increase	-1.3%*		Funding + cost mgmt = <6% tuition increase	6.0%*		1.5%	2.7%
Retention (Indicator 1.b.i) Fall 2010			Need-Based Aid (Indicator 1.a.iii) FY2009-10			Need-Based Aid (Indicator 1.a.iii) FY2009-10		
<u>Target</u>	<u>Performance</u>		<u>Target</u>	<u>Performance</u>		<u>Target</u>	<u>Performance</u>	
	80% Retention Rate			Report on Collegebound Nebraska	Program implemented and expanded		Increase private funds by \$6 million	Increased \$5.98 million
Women Faculty (Indicator 2.a.iii) Fall 2009			Minority Faculty (Indicator 2.a.iii) Fall 2009			Top 25% Enrollment (Indicator 3.b.i) Fall 2010		
<u>Target</u>	<u>Performance</u>		<u>Target</u>	<u>Performance</u>		<u>Target</u>	<u>Performance</u>	
	Increase over 2008	2009=33.79% 2008=33.38%		Increase over 2008	2009=15.38% 2008=15.19%		Increase to 50%	47.9%
Nonresident Recruitment (Indicator 3.c.i) Fall 2010			Merit-Based Aid (Indicator 3.b.ii) FY2009-10			*State funding reflects change to original appropriation made during the special legislative session.		
<u>Target</u>	<u>Performance</u>		<u>Target</u>	<u>Performance</u>				
	Increase 1.5% over 2009	+5.6%		Increase private funds by \$6 million	Increased \$12.09 million			
Six-Year Graduation Rate (Indicator 1.b.iii) AY2008-09				Faculty Salaries (Indicator 2.a.i) FY2009-10				
<u>Campus</u>	<u>Target</u>	<u>Performance</u>		<u>Campus</u>	<u>Target</u>	<u>Performance</u>		
	UNL	2009= -6.1% 2008= -4.7%			UNL	2010= -4.6% 2009= -6.5%		
	UNO	2009= +5.0% 2008= +3.0%			UNO	2010= -1.0% 2009= -4.8%		
	UNK	2009= +8.4% 2008= +7.9%			UNK	2010= -3.2% 2009= -3.7%		
UNMC	Not Applicable	Not Applicable			UNMC	2010= -7.4% 2009= -8.7%		

LEGEND:



Target Met or Exceeded












Progress Toward Target



Target Not Met

University of Nebraska Strategic Dashboard Indicators (April 29, 2011)

Federal Research Funding Growth (Indicator 4.a.i) UNL and UNMC FY2009-10			Research/Scholarly Activity Growth (Indicator 4.a.i) UNO and UNK FY2009-10				
	<u>Campus</u>	<u>Target</u>	<u>Performance</u>		<u>Campus</u>	<u>Target</u>	<u>Performance</u>
	UNL	5.11%	10.82%		UNO	Double in 10 years/7% annual compounded growth over FY 2005-06	46.9%
	UNMC	1.76%	26.71%		UNK		-26.7%
	<u>Indicator</u>	<u>Target</u>	<u>Performance</u>				
	Four-Year Graduation Guarantee (1.b.iii) AY2008-09	All prospective and current undergraduate students are informed about the University's four-year graduation guarantee.	All campuses have posted information about the four-year graduation guarantee on their websites and also have a link to four-year graduation guarantee information on the UNCA website.				
	Faculty Salaries (2.a.i) Fall 2009	Award all salary increases, to the extent possible, on the basis of merit.	Faculty salaries at UNL and UNMC may be based/granted entirely on merit, while faculty salaries at UNO and UNK are negotiated through the collective bargaining process and therefore the amount and method of distribution at UNO and UNK must be determined by agreement.				
	Workforce Demand (2.c.iii) Fall, 2009	Compile, analyze and present data on future workforce demand and comparative economic advantages in Nebraska.	Data on workforce demand have been evaluated. The University of Nebraska continues to develop a variety of new programs that will help to address the workforce needs of the state.				
	Entrepreneurship (3.d) Spring 2009	<ol style="list-style-type: none"> 1) Increase training hours by 5%. 2) Increase number of clients by 5%. 3) Increase SBIR/STTR applications by 10%. 4) Increase SBIR/STTR awards by 5%. 5) Increase investment in NU-assisted companies by 5%. 6) Increase NU-assisted startups and transitions by 5%. 	<ol style="list-style-type: none"> 1) Training hours grew by 6%. 2) Clients increased by 2%. 3) SBIR/STTR applications increased 27%. 4) SBIR/STTR awards increased 64%. 5) Investment in NU-assisted companies increased 57%. 6) NU-assisted start-ups and transitions increased 19%. 				
	Student Learning Assessment (6.f.i) Fall 2010	<ol style="list-style-type: none"> 1. Review performance on standardized examinations and surveys, including the National Survey of Student Engagement and professional licensure examinations. 2. Report on participation in pilot programs to measure student learning outcomes, such as the Collegiate Learning Assessment. 	<p>UNK, UNL and UNO currently participate in the National Survey of Student Engagement (NSSE). Performance on professional licensure examinations is above average for all campuses.</p> <p>Campuses are taking a variety of approaches to participation in pilot programs designed to measure learning outcomes, including exploring processes for assessing general studies requirements and participation in the administration of the College Assessment of Academic Proficiency (CAAP).</p>				

LEGEND:



Target Met or Exceeded









Progress Toward Target



Target Not Met

University of Nebraska Strategic Dashboard Indicators (April 29, 2011)

	<u>Indicator</u>	<u>Target</u>	<u>Performance</u>
	Administrative Best Practices (6.a.ii)		
	September 2010	Information Technology: report on implementation of SIS and SAP	Completed CedarCrestone implementation contract successfully August 31, 2010.
	June 2010	Short-Term Cash/Investments: Exceed average of similar fund types	The performance of the State's Operating Investment Pool (4.5%) slightly underperformed when compared to the benchmark value of 4.7%.
	January 2011	Endowments: Exceed average of similar fund types	Fund N endowments returned 13.6% for the year ending June 30, 2010, exceeding similar fund average of 12.2%.
	January 2011	Debt: Maintain Aa2 rating; exceed 1.15 coverage	Bond rating increased to Aa1 and exceeded 1.15 coverage.
	January 2011	Capital: Report on LB 605 Projects, Capital Queue	Projects are within budget and proceeding as quickly as possible given space and review constraints.
	June 2010	Human Resources: Meet midpoint of peers in faculty and staff salaries	Faculty salaries at all campuses are below the midpoint of peers for 2008.

LEGEND:



Target Met or Exceeded



Progress Toward Target



Target Not Met

TO: The Board of Regents
Academic Affairs

MEETING DATE: April 29, 2011

SUBJECT: Board of Regents agenda items related to the University of Nebraska Strategic Framework

RECOMMENDED ACTION: For Information Only

PREVIOUS ACTION: The current version of the framework appears as an information item at each Board of Regents meeting.

April 2005 – The Board of Regents began development of the University of Nebraska “Strategic Framework – Accountability Measures” document.

EXPLANATION: Attached is an explanation of the agenda items that are aligned with the strategic goals of the Board of Regents’ Strategic Framework.

SPONSOR: James B. Milliken, President
University of Nebraska

DATE: April 8, 2011

Alignment of the University's Strategic Goals with Board of Regents Agenda Items
April 29, 2011

- 1. The University of Nebraska will provide the opportunity for Nebraskans to enjoy a better life through access to high quality, affordable undergraduate, graduate and professional education.**
 - Business Affairs committee presentation/discussion of university-wide budget strategies
 - Academic Affairs committee discussion of proposals for differential tuition for the College of Engineering and the College of Business Administration at UNL, a tuition variance for the College of Public Health at UNMC, and the expansion of the Metropolitan Advantage Program at UNO
 - Approve Fund B, University Program and Facility fees, for all campuses
 - Report of laboratory, student and miscellaneous fees for all campuses
 - Approve UNMC Professional Certificates in Emergency Preparedness and Infectious Disease Epidemiology (which will be available via distance education)

- 2. The University of Nebraska will build and sustain undergraduate, graduate and professional programs of high quality with an emphasis on excellent teaching.**
 - Strategic Framework annual report on Faculty Merit Compensation
 - Academic Affairs committee discussion of proposals for differential tuition for the College of Engineering and the College of Business Administration at UNL, a tuition variance for the College of Public Health at UNMC, and the expansion of the Metropolitan Advantage Program at UNO
 - President's Personnel Recommendations
 - Approve UNO Bachelor of Science in Public Health
 - Approve UNL Bachelor of Science in Microbiology
 - Approve UNMC Professional Certificates in Emergency Preparedness and Infectious Disease Epidemiology

- 3. The University of Nebraska will play a critical role in building a talented, competitive workforce and knowledge-based economy in Nebraska in partnership with the state, private sector and other educational institutions.**
 - Academic Affairs committee discussion of the expansion of the Metropolitan Advantage Program at UNO
 - Approve UNMC Professional Certificates in Emergency Preparedness and Infectious Disease Epidemiology

- 4. The University of Nebraska will pursue excellence and regional, national and international competitiveness in research and scholarly activity, as well as their application, focusing on areas of strategic importance and opportunity.**
 - Approve purchase of a trailer mounted Magnetic Resonance Imaging system for research by UNMC in neurological diseases, cancer and other fields

- 5. The University of Nebraska will serve the entire state through strategic and effective engagement and coordination with citizens, businesses, agriculture, other educational institutions, and rural and urban communities and regions.**
 - Strategic Framework annual report on Entrepreneurship

- 6. The University of Nebraska will be cost effective and accountable to the citizens of the state.**
 - Strategic Framework annual report on Student Learning Assessment – Licensure Pass Rates
 - Approve the acceptance of the single audit of the University of Nebraska
 - Approve selection of the four year Architect/Engineer firms
 - Approve purchase of SciQuest E-Procurement software
 - Approve issuance of revenue bonds for the Truhlsen Eye Institute project at UNMC
 - Regular periodic reports including: Bids and Contracts and Licensure
 - Intermediate design reports for the Truhlsen Eye Institute and Eppley Cancer Institute projects
 - Reports of facility namings at UNL and UNO related to private gifts

D. REPORTS

1. Laboratory, Student, and Miscellaneous Fees for 2011-2012 Addendum IX-D-1
2. Revisions to the rules and regulations for faculty and student self-government organizations Addendum IX-D-2
3. Change the name of the UNL College of Law L.L.M. degree program in Space and Telecommunications Law to Space, Cyber and Telecommunications Law Addendum IX-D-3
4. Bids and Contracts Addendum IX-D-4
5. Intermediate Design reports – Truhlsen Eye Institute and Eppley Cancer Institute Addendum IX-D-5
6. Naming of men’s basketball practice court the “Bus Whitehead Court” at the University of Nebraska-Lincoln Addendum IX-D-6
7. Naming of areas in Mammel Hall at the University of Nebraska at Omaha Addendum IX-D-7
8. Licensure report Addendum IX-D-8
9. Strategic Framework report on Entrepreneurship Addendum IX-D-9
10. Strategic Framework report on Workforce Opportunities and Academic Program Alignment Addendum IX-D-10

TO: The Board of Regents Addendum IX-D-1
Academic Affairs

MEETING DATE: April 29, 2011

SUBJECT: Laboratory, Student, and Miscellaneous Fees for 2011-2012

RECOMMENDED ACTION: Report

PREVIOUS ACTION: April 30, 1994 – The Board of Regents directed the four campus Chancellors to annually report to the President all planned changes for student fees to be assessed during the following academic year.

EXPLANATION: The changes to be in effect at the University of Nebraska for the 2011-2012 academic year are listed on the attached reports by campus.

This report includes courses or activities where there are changes planned in course and laboratory fees, parking permit fees, charges for student admission to athletic events, admission application fees, registration fees, and any similar such fees or charges.

The report includes information on all categories of fees requested by the Board and all changes to fees that would affect the campus student body. On several campuses, a screening committee, often with student representatives, has reviewed proposed changes. Each item on the report has been reviewed and approved by campus administration.

PROJECT COST: None

SOURCE OF FUNDS: None

RECOMMENDED: Harvey Perlman, Chancellor
University of Nebraska-Lincoln

Harold M. Maurer, M.D. Chancellor
University of Nebraska Medical Center

John Christensen, Chancellor
University of Nebraska at Omaha

Douglas A. Kristensen, Chancellor
University of Nebraska at Kearney

Ronnie D. Green
NU Vice President for Agriculture and Natural Resources
IANR Harlan Vice Chancellor

APPROVED: James B. Milliken
President

DATE: April 7, 2011

University of Nebraska-Lincoln
Laboratory, Student, and Miscellaneous Fee Changes for 2011-2012

Department	Course	Current Fee 2010-11	Proposed Fee 2011-12
College of Agricultural Science and Natural Resources			
Dean's Office	AGRI 388 (NRES 388) Employment Seminar	\$ 15.00	\$ 25.00
Agronomy and Horticulture	AGRO 153 (HORT/SOIL 153) Soil Resources	\$ -	\$ 5.00
Entomology	ENTO 826 (AGRO 826) Scientific Illustration	\$ 20.00	\$ 10.00
Food Science & Technology	FDST 460/860 Food Product Development Concepts	\$ -	\$ 75.00
Agronomy & Horticulture	HORT 265 Visual Communication for Landscape Design	\$ 20.00	\$ 30.00
Agronomy & Horticulture	HORT 300 Introduction to Landscape	\$ 10.00	\$ 25.00
School of Natural Resources	NRES 320 Fundamentals of Environmental Sampling Laboratory	\$ -	\$ 30.00
School of Natural Resources	NRES 433/833 Wildlife Management Techniques	\$ 35.00	\$ 180.00
School of Natural Resources	NRES 463/863 Fisheries Science	\$ 30.00	\$ 200.00
Agronomy/Horticulture	TLMT 127 (AGRO/HORT 127) Turfgrass and Landscape Management Survey (pending course approval)	\$ -	\$ 20.00
Agronomy/Horticulture	TLMT 229(AGRO/HORT 229) Laboratory for Integrated Turfgrass Systems (pending course approval)	\$ -	\$ 40.00
Agronomy/Horticulture	TLMT 427/827 (AGRO/HORT 427/827, PGAM 427) Critical Thinking in Turfgrass Management	\$ -	\$ 50.00
College of Architecture ⁽¹⁾			
Architecture	ARCH 140A (ARTP/IDES/JGEN/LARC/TXCD 140A) Visual Literacy Lab: Analysis &/or Composition	\$ 35.00	\$ -
Architecture	ARCH 140B (ARTP/IDES/JGEN/LARC/TXCD 140B) Visual Literacy Lab: Perceptual Drawing	\$ 35.00	\$ -
Architecture	ARCH 141A (ARTP/IDES/JGEN/LARC/TXCD 141A) Visual Literacy Lab: Color	\$ 35.00	\$ -
Architecture	ARCH 141B (ARTP/IDES/JGEN/LARC/TXCD 141B) Visual Literacy Lab: Speculative Drawing	\$ 35.00	\$ -
Architecture	ARCH 164 (ARTP/IDES/JOUR/LARC/TXCD 164) Visual & Aural Literacy	\$ 15.00	\$ -
Architecture	ARCH 567 (ARCH 467/867, HORT/LARC 467) Plant Design	\$ 25.00	\$ -
Architecture	ARCH 867 (ARCH 467/567, HORT/LARC 467) Plant Design	\$ 25.00	\$ -
Architecture	CRPL 431/831 Computer Graphics Application in Physical and Environmental Planning	\$ 25.00	\$ -
Architecture	CRPL 810 Communication Techniques for Planners	\$ 25.00	\$ -
Architecture	CRPL 830 Intro to Computers in Planning	\$ 25.00	\$ -
Architecture	CRPL 840 Planning Methods & Analysis	\$ 25.00	\$ -
Architecture	CRPL 990 Planning Studio	\$ 25.00	\$ -
Architecture	IDES 140A (ARCH/ARTP/JGEN/LARC/TXCD 140A) Visual Literacy Lab: Analysis &/or Composition	\$ 35.00	\$ -
Architecture	IDES 140B (ARCH/ARTP/JGEN/LARC/TXCD 140B) Visual Literacy Lab: Perceptual Drawing	\$ 35.00	\$ -
Architecture	IDES 141A (ARCH/ARTP/JGEN/LARC/TXCD 141A) Visual Literacy Lab: Color	\$ 35.00	\$ -

University of Nebraska-Lincoln
Laboratory, Student, and Miscellaneous Fee Changes for 2011-2012

Department	Course	Current Fee 2010-11	Proposed Fee 2011-12
College of Architecture (continued) ⁽¹⁾			
Architecture	IDES 141B (ARCH/ARTP/JGEN/LARC/TXCD 141B) Visual Literacy Lab: Speculative Drawing	\$ 35.00	\$ -
Architecture	IDES 164 (ARCH/ARTP/JOUR/LARC/TXCD 164) Visual & Aural Literacy	\$ 15.00	\$ -
Architecture	LARC 140A (ARCH/ARTP/IDES/JGEN/TXCD 140A) Visual Literacy Lab: Analysis &/or Composition	\$ 35.00	\$ -
Architecture	LARC 140B (ARCH/ARTP/IDES/JGEN/TXCD 140B) Visual Literacy Lab: Perceptual Drawing	\$ 35.00	\$ -
Architecture	LARC 141A (ARCH/ARTP/IDES/JGEN/TXCD 141A) Visual Literacy Lab: Color	\$ 35.00	\$ -
Architecture	LARC 141B (ARCH/ARTP/IDES/JGEN/TXCD 141B) Visual Literacy Lab: Speculative Drawing	\$ 35.00	\$ -
Architecture	LARC 164 (ARCH/ARTP/IDES/JOUR/TXCD 164) Visual & Aural Literacy	\$ 15.00	\$ -
Architecture	LARC 216 (HORT 266) Introduction to Landscape Design	\$ 20.00	\$ -
Architecture	LARC 467 (ARCH 467/567/867, HORT 467) Plant Design	\$ 25.00	\$ -
College of Arts and Sciences			
Geography	GEOG 427/827 Global Positioning Systems	\$ -	\$ 40.00
Geography	GEOG 432/832 GIS Programming: Advanced Modeling (pending course approval)	\$ -	\$ 30.00
College of Education & Human Sciences			
TLTE	TEAC 886B Assessment Evaluation & Instruction Internship: Literacy	\$ -	\$ 15.00
Textiles, Clothing & Design	TXCD 818 History of Quilts	\$ 35.00	\$ -
College of Engineering			
Construction Management	CNST 252 Construction Materials and Testing	\$ -	\$ 25.00
Computer Science & Engineering	CSCE 236 Embedded Systems (pending course approval)	\$ -	\$ 25.00
Computer Science & Engineering	CSCE 438 Sensor Networks (pending course approval)	\$ -	\$ 20.00
College of Fine & Performing Arts			
Art & Art History	ARTP 400 Capstone Art Experience	\$ -	\$ 20.00
Art & Art History	DRAW 201 Intermediate Drawing	\$ 25.00	\$ 50.00
Art & Art History	DRAW 301 Advanced Drawing I: Life Drawing	\$ 25.00	\$ 60.00
School of Music	Applied Music Courses (MUAP 101-124, 201-224, 301-324, 401-424, 801-820, 901-923. MUCP 183/283/383/483/983. MUCP 184/284/384/484.)	\$ 25.00	\$ 35.00
School of Music	MUNM 282 Introduction to Music Composition and Digital Audio Production	\$ -	\$ 100.00
Johnny Carson School of Theatre and Film	THEA 282 Digital Video Production	\$ -	\$ 100.00

University of Nebraska-Lincoln Laboratory, Student, and Miscellaneous Fee Changes for 2011-2012			
Department	Course	Current Fee 2010-11	Proposed Fee 2011-12
College of Fine & Performing Arts (continued)			
Johnny Carson School of Theatre and Film	THEA 368 Digital Media Production	\$ -	\$ 100.00
Johnny Carson School of Theatre and Film	THEA 387 Digital Animation	\$ -	\$ 100.00
Johnny Carson School of Theatre and Film	THEA 401 Advanced Acting	\$ -	\$ 15.00
Miscellaneous			
Busines & Finance	Student Parking Fee: Student Residential Surface (annual)	\$ 480.00	\$ 504.00
Busines & Finance	Student Parking Fee: Student Commuter Surface (annual)	\$ 480.00	\$ 504.00
Busines & Finance	Student Parking Fee: Student Reserved (annual)	\$ 924.00	\$ 936.00
Busines & Finance	Student Parking Fee: Student Resident Garage (annual)	\$ 600.00	\$ 612.00
Busines & Finance	Student Parking Fee: Student Commuter Garage (annual)	\$ 600.00	\$ 612.00
Busines & Finance	Student Parking Fee: Perimeter (annual)	\$ 348.00	\$ 312.00
College of Law	Application Fee	\$ 25.00	\$ 50.00
IANR	PGA Golf Management Fee (per semester)	\$ 500.00	\$ 550.00
Student Affairs	Judicial Affairs Administrative fee for students in violation of Student Code of Conduct	\$ -	\$ 100.00
Student Affairs	Judicial Affairs Administrative fee for student groups or organizations in violation of Student Code of Conduct	\$ -	\$ 200.00

⁽¹⁾ The College of Architecture courses listed have not collected special fees for a number of years because of the professional fee collected within the College of Architecture. They are now asking that these courses be dropped from the record of collecting special fees.

University of Nebraska Medical Center
Laboratory, Student, and Miscellaneous Fee Changes for 2011-2012

Fee Type	Course	Current Fee 2010-2011	Proposed Fee 2011-2012	
College of Dentistry				
Course Fees	Dental Student Books & Instruments D-1, D-2, and D-3 Students (per semester)	\$ 3,657.00	\$ 3,767.00	(1)
	Dental Student Books & Instruments D-4 Students (per semester)	\$ 3,545.00	\$ 3,652.00	(1)
	Dental Hygiene Student Books & Instruments (per semester)	\$ 1,770.00	\$ 1,824.00	(1)
College of Public Health				
Course Fees	Environmental, Agricultural and Occupational Health			
	ENV800 (per course)	\$ -	\$ 65.00	(2)
Course Fees	Health Promotion, Social and Behavioral Health Sciences			
	HPRO 410/610 (per semester)	\$ 20.00	\$ -	(23)
	HPRO 410a/610a (Spring semester)	\$ 20.00	\$ -	(23)
School of Allied Health Professions				
Course Fees	Clinical Laboratory Science (per course)			
	CLS 300 Basic Lab Methods	\$ 75.00	\$ -	(4)
	CLS 413 Clinical Endocrinology & Toxicology	\$ -	\$ 20.00	(3)
	CLS 414 Clinical Chemistry I	\$ 50.00	\$ 90.00	(5)
	CLS 415 Clinical Chemistry II	\$ 40.00	\$ 20.00	(5)
	CLS 416 Clinical Hematology I	\$ 50.00	\$ 75.00	(5)
	CLS 417 Clinical Hematology II	\$ 50.00	\$ 15.00	(5)
	CLS 418 Clinical Microbiology I	\$ 50.00	\$ 135.00	(5)
	CLS 419 Clinical Microbiology II	\$ 40.00	\$ 30.00	(5)
	CLS 420 Clinical Immunology & Molecular Diagnosis	\$ 30.00	\$ 20.00	(5)
	CLS 422 Clinical Immunohematology	\$ 25.00	\$ 50.00	(5)
	CLS 424 Phlebotomy	\$ 30.00	\$ 20.00	(5)
	CLS 426 Urinalysis and Body Fluid Analysis	\$ 30.00	\$ 20.00	(5)
	CLS 430 Clinical Laboratory Management I	\$ 50.00	\$ 10.00	(5)
	CLS 431 Clinical Laboratory Management II	\$ -	\$ 10.00	(3)
	CLS 500 (PA Phase I)	\$ 80.00	\$ 60.00	(5)
Course Fees	Medical Nutrition Education			
	MNED 775 Research Methods in Medical Nutrition (Fall Semester)	\$ 30.00	\$ -	(4)
	MNED 777 Advanced Clinical Nutrition (Fall Semester)	\$ 120.00	\$ -	(4)
	MNED 875 (Fall Semester)	\$ -	\$ 30.00	(6)
	MNED 877 (Fall Semester)	\$ -	\$ 80.00	(6)
	MNED 975 (Spring Semester)	\$ -	\$ 60.00	(6)
	MNED 977 (Spring Semester)	\$ -	\$ 86.00	(6)

University of Nebraska Medical Center
Laboratory, Student, and Miscellaneous Fee Changes for 2011-2012

Fee Type	Course	Current Fee 2010-2011	Proposed Fee 2011-2012	
Course Fees	Physical Therapy - PT 1's (per course)			
	PHYT 502 Found of PT Practice	\$ 20.00	\$ 10.00	(7)
	PHYT 505 Musculoskeletal PT I	\$ 25.00	\$ 10.00	(7)
	PHYT 506 Functional Mobility	\$ 10.00	\$ 5.00	(7)
	PHYT 510 Physical Agents	\$ 18.00	\$ 5.00	(7)
	PHYT 511 Integumentary Physical Therapy	\$ 25.00	\$ 15.00	(7)
	PHYT 512 Neuromuscular PT I	\$ 10.00	\$ 7.00	(7)
	PHYT 522 Professional Practice Expectations I	\$ 30.00	\$ 15.00	(7)
	PHYT 550 Clinical Education I	\$ 25.00	\$ 20.00	(7)
Course Fees	Physical Therapy - PT 2's (per course)			
	PHYT 605 Musculoskeletal Physical Therapy II	\$ 18.00	\$ 10.00	(7)
	PHYT 606 Musculoskeletal Physical Therapy III	\$ 16.00	\$ 7.00	(7)
	PHYT 610 Cardiopulmonary Physical Therapy	\$ 20.00	\$ 7.00	(7)
	PHYT 612 Pediatric Physical Therapy	\$ 18.00	\$ 7.00	(7)
	PHYT 614 Therapeutic Exercise for Special Popul.	\$ 18.00	\$ 7.00	(7)
	PHYT 616 Neuromuscular Physical Therapy II	\$ 35.00	\$ 7.00	(7)
	PHYT 617 Neuromuscular Physical Therapy III	\$ 30.00	\$ 7.00	(7)
	PHYT 622 Practice Management Skills in PT	\$ 15.00	\$ 7.00	(7)
	PHYT 624 Orthotics & Prosthetics	\$ 14.00	\$ 7.00	(7)
	PHYT 630 Prevention and Wellness	\$ 14.00	\$ 7.00	(7)
	PHYT 740 Critical Inquiry II	\$ 15.00	\$ 30.00	(8)
Course Fees	Physical Therapy - PT 3's (per course)			
	PHYT 720 Differential Diagnosis	\$ 10.00	\$ 6.00	(7)
	PHYT 722 Professional Practice Expectations III	\$ 20.00	\$ 10.00	(7)
	PHYT 726 Instructional Development	\$ 7.50	\$ 5.00	(7)
	PHYT 727 Imaging for Physical Therapists	\$ 20.00	\$ 15.00	(7)
Course Fees	Radiation Science Technology Education (per course)			
	RSTE 305R Special Project	\$ 100.00	\$ 80.00	(9)
	RSTE 323T Treatment Planning I	\$ 20.00	\$ -	(4)
	RSTE 336T Applied Radiation Therapy I	\$ 70.00	\$ 25.00	(10)
	RSTE 355R Radiographic Pathology II	\$ -	\$ 10.00	(11)
	RSTE 410R CT/MRI Anatomy & Pathology	\$ -	\$ 10.00	(11)
	RSTE 411R CT/MRI Anatomy & Pathology II	\$ -	\$ 10.00	(11)
	RSTE 414T Sectional Anatomy & Pathology	\$ -	\$ 10.00	(11)
	RSTE 415T Sectional Anatomy & Pathology II	\$ -	\$ 10.00	(11)
	RSTE 415S Orientation to Diagnostic Medical Sonography	\$ 50.00	\$ 40.00	(12)
	RSTE 419S Professional Projects I	\$ 40.00	\$ 35.00	(9)
	RSTE 421S Professional Projects II	\$ 40.00	\$ 35.00	(9)
	RSTE 422R CT/MRI Exam Proto/Pos	\$ 100.00	\$ 80.00	(9)

University of Nebraska Medical Center
Laboratory, Student, and Miscellaneous Fee Changes for 2011-2012

Fee Type	Course	Current Fee 2010-2011	Proposed Fee 2011-2012	
School of Allied Health Professions (continued)				
Course Fees	Radiation Science Technology Education (per course) (continued)			
	RSTE 428T Principle & Practice of Radiation	\$ -	\$ 20.00	(11)
	RSTE 429T Treatment Plan III	\$ 50.00	\$ -	(4)
	RSTE 435T Treatment Planning & Delivery	\$ -	\$ 50.00	(11)
College of Dentistry				
Laboratory Fees	OBIO 848 (Light and EM Methods) (per course)	\$ 110.00	\$ 120.00	(13)
College of Medicine				
Laboratory Fees	Genetics, Cell Biology & Anatomy (per course)			
	GCBA 452 Radiation Tech Students	\$ 52.92	\$ 55.57	(13)
	GCBA 552 Anatomy for Pharmacist	\$ 52.92	\$ 55.57	(13)
	GCBA 812 Neuroanatomy	\$ 71.66	\$ 75.24	(13)
	GCBA 826 Histology	\$ 87.10	\$ 91.46	(13)
	GCBA 830 Electron Microscopy	\$ 87.10	\$ 91.46	(13)
	GCBA 832 Cell & Tissue Culture	\$ 87.10	\$ 91.46	(13)
	GCBA 908 Advanced Hematology	\$ 87.10	\$ 91.46	(13)
	GCBA 910/920 Gross Anatomy (both courses)	\$ 245.86	\$ 258.15	(13)
	GCBA 924 Selected Problems in Electron Microscopy	\$ 87.10	\$ 91.46	(13)
	GCBA /Anatomy for PAs	\$ 364.93	\$ 383.18	(13)
	GCBA /Anatomy for PTs	\$ 364.93	\$ 383.18	(13)
Laboratory Fees	College of Medicine			
	M-ID 570 Structure Human Body -MO1 (1st semester)	\$ 561.00	\$ 589.00	(13)
	M-ID 711 Anatomic Dissection (per course)	\$ 163.00	\$ 171.00	(13)
School of Allied Health Professions				
Laboratory Fees	Physical Therapy - PT 1's (per course)			
	PHYT 506 Functional Mobility	\$ 25.00	\$ 40.00	(14)
	PHYT 511 Integumentary Physical Therapy	\$ 30.00	\$ 25.00	(15)
	PHYT 512 Neuromuscular PT I	\$ 5.00	\$ 7.00	(14)
Laboratory Fees	Physical Therapy - PT 2's (per course)			
	PHYT 605 Musculoskeletal Physical Therapy II	\$ 10.00	\$ 12.00	(14)
	PHYT 610 Cardiopulmonary Physical Therapy	\$ 30.00	\$ 35.00	(14)
	PHYT 614 Therapeutic Exercise for Special Popul.	\$ 10.00	\$ 12.00	(14)
	PHYT 616 Neuromuscular Physical Therapy II	\$ 10.00	\$ 12.00	(14)
	PHYT 617 Neuromuscular Physical Therapy III	\$ 10.00	\$ 5.00	(15)
	PHYT 624 Orthotics & Prosthetics	\$ 45.00	\$ 35.00	(15)
	PHYT 630 Prevention and Wellness	\$ 7.50	\$ 10.00	(14)

University of Nebraska Medical Center
Laboratory, Student, and Miscellaneous Fee Changes for 2011-2012

Fee Type	Course	Current Fee 2010-2011	Proposed Fee 2011-2012	
Miscellaneous Fees				
Other Fees	COP - Pre-Enrollment Deposit	\$ 200.00	\$ 500.00	(16)
Other Fees	SAHP - Pre-Enrollment Deposit (Physical Therapy Education)	\$ 100.00	\$ 200.00	(16)
	SAHP - Application Fee	\$ 45.00	\$ 70.00	(17)
Other Fees	Thesis Binding - Grad Students	\$ 10.00	\$ 15.00	(18)
Other Fees	Distributive Learning Fee - Nursing Undergraduate & Graduate Students (per credit)	\$ 25.00	\$ 30.00	(19)
Other Fees	COD Technology Fee - D1, D2, D3, D4 Students (Per Semester)	\$ -	\$ 200.00	(20)
	COD Technology Fee - Dental Hygiene Students (Per Semester)	\$ -	\$ 100.00	(20)
Other Fees	COP Technology Fee - PharmD Students (Per Semester)	\$ -	\$ 100.00	(21)
Stud Hlth Insur	Health Insurance Program, Basic Plan (unless waived)	\$ 350.00	\$ 357.00	(22)
	Records Fee (Immunization)	\$ 10.00	\$ -	(23)

(1) Increase in fees to cover the increase in costs for textbooks, instruments, and other course materials.

(2) New fee to cover cost of OSHA certification of the students

(3) New Course

(4) Course discontinued.

(5) Course fees adjusted to reflect actual costs. Supplies for student labs were not included in previous CLS 418 course fee.

(6) New course. Fee covers cost of reference resources and posters.

(7) Decrease due to reduction in copying expense.

(8) Increase in cost of posters.

(9) Decrease due to reduction in poster expense.

(10) Clinical Education notebook now on-line.

(11) New course. Fee for printing and handouts.

(12) Decrease in cost of membership.

(13) Increase in costs.

(14) Increased supply costs - standardized patients.

(15) Decreased supply costs.

(16) Encourages students to make a firm commitment. Fee is applied toward tuition.

(17) Increase in fee to be consistent with the College of Medicine's fee of \$70.

(18) Increased costs.

(19) Increased costs and changing methods of distributing educational strategies.

(20) New fee for expense of updating technology.

(21) New fee for acquiring new technology.

(22) Increase in costs.

(23) Fee no longer assessed.

University of Nebraska at Omaha
Laboratory, Student, and Miscellaneous Fee Changes for 2011-12

Department	Course	Current Fee 2010-2011	Proposed Fee 2011-2012
College of Arts and Sciences			
Chemistry	CHEM 1184 General Chemistry I Laboratory	\$ 30.00	\$ 35.00
Chemistry	CHEM 1194 General Chemistry II Laboratory	\$ 29.00	\$ 36.00
Chemistry	CHEM 3354/8359 Physical Chemistry I Laboratory	\$ 25.00	\$ 35.00
Chemistry	CHEM 3364/8369 Physical Chemistry II Laboratory	\$ 25.00	\$ 30.00
Chemistry	CHEM 4654/8654 Biochemistry I Laboratory	\$ 46.00	\$ 50.00
Chemistry	CHEM 4664/8664 Biochemistry II Laboratory	\$ 48.00	\$ 55.00
Miscellaneous Fees			
Academic & Student Affairs	Enrollment Services Fee	\$49.50/sem	\$52.00/sem
Academic & Student Affairs	New Student Fee	\$ 125.00	\$ 140.50
Academic & Student Affairs	Student Research Fee	\$ -	\$1.50/crhr
Mav Card Services	ID Card Fee	\$6.25/sem	\$6.50/sem
Parking	Annual Permit Fee - Day	\$130.00/yr	\$150.00/yr
Parking	Annual Permit Fee - Evening	\$65.00/yr	\$75.00/yr
Parking	Garage Access Card Surcharge - East Structure	\$80.00/yr	\$100.00/yr

University of Nebraska at Kearney
Laboratory, Student, and Miscellaneous Fee Changes for 2011-2012

Department	Course	Current Fee 2010-11	Proposed Fee 2011-12
College of Fine Arts & Humanities			
Art	Art 100 - Art Structure	\$ 5.00	\$ 10.00
Theatre	Thea 135 - Intro to Stage Technology	\$ 20.00	\$ 30.00
Communication	JMC 215 - News Writing & Photography	\$ -	\$ 25.00
	JMC 302 - Digital Storytelling	\$ -	\$ 25.00
College of Education			
Teacher Education	TE 400 - Student Teaching	\$ -	\$ 150.00
HPERLS	PE 110 - Spring Skeet & Trap Shooting	\$ -	\$ 80.00
	PE 110 - Fall - Marksmanship	\$ -	\$ 110.00
	PE 110 - Fall - Paintball	\$ -	\$ 40.00
	PE 360 - Anatomy & Kinesiology	\$ 16.00	\$ 26.00
	PE 460 - Gross Anatomy	\$ 30.00	\$ 55.00
College of Natural & Social Sciences			
Biology	BIOL 103 - General Biology	\$ 10.00	\$ 15.00
	BIOL 211 - Human Microbiology	\$ 15.00	\$ 30.00
	BIOL 400/800 - Microbiology	\$ 20.00	\$ 40.00
	BIOL 401/801P - Principles of Immunology	\$ 70.00	\$ 100.00
	BIOL 452/852P - Techniques in Molecular Biology	\$ 50.00	\$ 100.00
	BIOL 465/865P - Physiology	\$ 60.00	\$ 100.00
Criminal Justice	CRIM JUS 390 - Criminal Investigation	\$ -	\$ 10.00
	CRIM JUS 490 - Advanced Criminal Investigations	\$ 15.00	\$ 25.00
Chemistry	CHEM 250 - Organic Chemistry	\$ 30.00	\$ 35.00
	CHEM 301 - Tech Chemistry Analysis	\$ 30.00	\$ 40.00
	CHEM 351 - Biochemistry	\$ 35.00	\$ 45.00
	CHEM 352 - Biochemistry II	\$ 35.00	\$ 45.00
	CHEM 360L - Organic Chemistry	\$ 30.00	\$ 40.00
	CHEM 361L - Organic Chemistry	\$ 30.00	\$ 40.00
	CHEM 430 - Inorganic Chemistry	\$ 30.00	\$ 40.00
	CHEM 475/875P - Instrumental Analysis	\$ 40.00	\$ 50.00
	CHEM 480/880P - Physical Chemistry	\$ 35.00	\$ 45.00
	CHEM 481/881P - Physical Chemistry	\$ 35.00	\$ 45.00
Geography	GEOG 310 - Cartography	\$ -	\$ 25.00
	GEOG 315 - GIS Principles & Concepts	\$ -	\$ 25.00
	GEOG 316 - GIS Working with GIS & Spatial Analysis	\$ -	\$ 25.00
	GEOG 317 - Remote Sensing	\$ -	\$ 25.00
	GEOG 416 - Applications of GIS	\$ -	\$ 25.00
	GEOG 443 - Special Topics in GIS, Spatial Analysis & Remote Sensing	\$ -	\$ 25.00
Physics	PHYS 323 - Electronics	\$ 15.00	\$ 40.00
	PHYS 346 - Modern Physics I	\$ 15.00	\$ 35.00
	PHYS 813 - Introduction to Analog & Digital Electronics	\$ -	\$ 100.00

University of Nebraska at Kearney
Laboratory, Student, and Miscellaneous Fee Changes for 2011-2012

Department	Course	Current Fee 2010-11	Proposed Fee 2011-12
Miscellaneous Other Fees			
Administration	Laundry Fee	\$ -	\$ 50.00
	Admin Parking Permit	\$ 100.00	\$ 125.00
	Faculty/Professional Staff Parking Permit	\$ 75.00	\$ 80.00
	Monthly Parking Permit	\$ 15.00	\$ 30.00

Nebraska College of Technical Agriculture
 Laboratory, Student, and Miscellaneous Fee Changes for 2011-2012

Department		Current Fee 2010-11	Proposed Fee 2011-12
Academic Fees			
Ag Business	Software Maintenance (per class) ABM 2963	\$ -	\$ 5.00

TO: The Board of Regents Addendum IX-D-2
Academic Affairs

MEETING DATE: April 29, 2011

SUBJECT: Revisions to rules and regulations for faculty and student self-government organizations

RECOMMENDED ACTION: Report

PREVIOUS ACTION: January 10, 2010 – The Board approved an amendment of Section 1.2 paragraph three of the *Bylaws of the Board of Regents of the University of Nebraska* to revise the process for approval of rules and regulations for faculty and student self-government organizations.

EXPLANATION: The *Bylaws of the Board of Regents* Section 1.2 as amended on January 10, 2010 state, “In any case where any officer, group or agency has been authorized by these *Bylaws* to adopt rules or regulations, such rules or regulations, before they may be effective, shall be:

- (1) considered by the officer, group or agency at a public hearing held after giving reasonable advance public notice thereof;
- (2) reviewed and approved by the General Counsel for consistency with these *Bylaws* and applicable policies, laws and regulations; and
- (3) filed with the Corporation Secretary for report to the Board. The President and cognizant Chancellor are to be timely provided with a courtesy copy of any public hearing notice.”

Consistent with these *Bylaws* and operating procedures, the following changes have been filed with the Corporation Secretary since the last meeting of the Board:

- (1) Procedures to be Invoked for Significant Budget Reallocations and Reductions – University of Nebraska-Lincoln

These changes are available for inspection in the Office of the Corporation Secretary.

REPORTED BY: Carmen K. Maurer
Interim Corporation Secretary

DATE: April 8, 2011

TO: The Board of Regents Addendum IX-D-3

Academic Affairs

MEETING DATE: April 29, 2011

SUBJECT: Change the name of the UNL College Law L.L.M. degree program in Space and Telecommunications Law to Space, Cyber and Telecommunications Law.

RECOMMENDED ACTION: Report

EXPLANATION: President Milliken has approved the name change of the UNL Law degree program in Space and Telecommunications to Space, Cyber and Telecommunications Law.

The new name more accurately illustrates the program's focus and similarly the expertise of the faculty teaching within the program.

SPONSORS: Ellen Weissinger
Senior Vice Chancellor for Academic Affairs

Harvey Perlman
Chancellor, University of Nebraska-Lincoln

APPROVED: James B. Milliken, President
University of Nebraska

DATE: April 7, 2011

TO: The Board of Regents Addendum IX-D-4

Business Affairs

MEETING DATE: April 29, 2011

SUBJECT: Report of Bids and Contracts

RECOMMENDED ACTION: Report

PREVIOUS ACTION: None

EXPLANATION: The attached report is a summary of bids and contracts as provided by the campuses pursuant to Section 6.4 of the *Bylaws of the Board of Regents of the University of Nebraska* for the period ended March 31, 2011.

The report outlines the following: type of action; campus; description and use of the product, service, or project; funding source; approved budget amount; contract amount; contractor or vendor; and a bid review or bid explanation if the low responsible bid was not accepted.

APPROVED: David E. Lechner
Vice President for Business and Finance

DATE: April 7, 2011

Type of Action	Campus	Description	Funding Source	Approved Budget Amount*	Contract Amount	Contractor / Vendor	Bid Review or Explanation
Personal Property	UNL	WCREC (N. Platte)- Wind tunnels	State Funds	\$152,000	\$152,000	Eldridge Engineering Corp.	Sole Source-Eldridge engineering is only company to have engineered and built wind tunnels with scrubber systems to pull particulates and volatiles from the air for research on pesticide applications.
Personal Property	UNMC	Information Technology Disaster Recovery Storage Equipment	Business & Finance Information Technology Services	378,197	378,197	Govconnection Inc.	Low responsible bidder.
Personal Property	UNMC	Zeiss Confocal Microscope	Munroe Meyer Institute Molecular Genetics Department	262,512	262,512	Carl Zeiss Microimaging LLS	Sole Source-Four other microscopes were evaluated and the Zeiss microscope was selected as it had the unique capability for live cell scans conducted over a period of time.
Construction	UNL	Architecture Hall Connecting Link Envelope Restoration	309 Task Force	316,500	316,500	Dickey & Burham, Inc.	Low responsible bidder.

*Approved budget amount for construction contracts represents the entirety of the project budget, whereas the contract amount is the amount pertaining to the particular activity within the construction contract.

TO: The Board of Regents Addendum IX-D-5
Business Affairs

MEETING DATE: April 29, 2011

SUBJECT: Business Affairs Committee Approval of Intermediate Design Reports

RECOMMENDED ACTION: Report

PREVIOUS ACTION: On November 7, 2008, the Board of Regents approved revisions to RP-6.3.6.2.d authorizing the Business Affairs Committee to approve Intermediate Design for projects greater than \$2,000,000 and report approval to the Board at the next regular meeting. Approval of Intermediate Design fixes the project scope and budget.

EXPLANATION: Following is the Intermediate Design Report for two projects approved by the Business Affairs Committee:

UNMC – Samuel M. Truhlsen Eye Institute

Program Statement Approved:		October 23, 2009
Intermediate Design Report:		April 15, 2011
	<i>Program Statement</i>	<i>Approved</i>
Total Project Cost:	\$20,000,000	\$20,000,000
Construction Cost	\$14,433,000	\$14,433,000
Non Construction Cost:	\$5,567,000	\$5,567,000
NSF:	25,792	29,582
GSF:	47,000	54,536
Substantial Completion	Dec. 2012	Dec. 2012

UNMC – Eppley Cancer Institute Renovation

Program Statement Approved:		March 11, 2011
Intermediate Design Report:		April 15, 2011
	<i>Program Statement</i>	<i>Approved</i>
Total Project Cost:	\$11,900,000	\$11,900,000
Construction Cost:	\$10,283,000	\$10,283,000
Non Construction Cost	\$1,617,000	\$1,617,000
NASF:	20,458	20,458
GSF:	50,984	50,984
Substantial Completion	June 2012	September 2012

SPONSOR: Rebecca H. Koller
Assistant Vice President for Business & Finance
Director of Facilities Planning & Management

RECOMMENDED: David E. Lechner
Vice President for Business & Finance

DATE: April 7, 2011

TO: The Board of Regents Addendum IX-D-6

Business Affairs

MEETING DATE: April 29, 2011

SUBJECT: Naming of men's basketball practice court the "Bus Whitehead Court"

RECOMMENDED ACTION: Report

PREVIOUS ACTION: None

EXPLANATION: President Milliken and Chancellor Perlman have approved naming the new men's basketball practice court, located inside the Hendricks Training Complex at the University of Nebraska-Lincoln, the "Bus Whitehead Court" in recognition of a generous gift by the Whitehead family.

Bus Whitehead was an outstanding center for the Huskers and helped lead the 1949 and 1950 teams to league titles while earning first-team all-Big Seven honors. He was also an outstanding member of the Nebraska community and earned the first men's basketball Hall of Fame distinguished Alumni Award in 2003. After his death last year, the Whitehead family generously committed \$750,000 in Bus' memory.

By naming the practice court in honor of Bus Whitehead, the Board of Regents expresses on behalf of the University of Nebraska-Lincoln its deepest gratitude and appreciation to the Whitehead family, for their continued support of the University of Nebraska.

PROJECT COST: None

SOURCE OF FUNDS: None

SPONSORS: Christine A. Jackson
Vice Chancellor for Business and Finance

Harvey S. Perlman, Chancellor
University of Nebraska-Lincoln

APPROVED: James B. Milliken
President

DATE: April 7, 2011

TO: The Board of Regents Addendum IX-D-7

Business Affairs

MEETING DATE: April 29, 2011

SUBJECT: Naming of areas in Mammel Hall at the University of Nebraska at Omaha

RECOMMENDED ACTION: Report

PREVIOUS ACTION: None

EXPLANATION: President Milliken and Chancellor Christensen have approved naming the rooms and spaces in Mammel Hall as listed below.

3rd Floor:

Statistics Lab in honor of Robert C. Stedman
Computer classroom in honor of Keith Kiernan
Reception area in honor of Dan and Allison O'Neill
Real estate lab in honor of Hollis and Helen Baright
Student study area in honor of Margaret Sova, Bob Kreitner,
Andrea Bass, Laci Pemberton, and Grant Stanley
Student study in honor of S.R. Adidam and N.R. Adidam
Conference room in honor of Roger P. and Jeannine K. Sindt
Classroom in honor of Jack and Stephanie Koraleski

2nd Floor:

Accounting Lab in honor of Kate King Wu and Horace Wu
Classroom in honor of Barbara Kistler
Mothers' Room in honor of Ian, Tera and Ayden Maher
NBDC reception area in honor of Robert E. Bernier
Classroom in honor of the Alan and Marcia Baer Foundation
Student collaboration space and student lounge in honor of Dean
and Maria Jacobsen
Classroom in honor of Mark and Frances Grieb
Study space in honor of George P. Tumlin, III

1st floor:

Student study space in honor of Mark Wohar
Student study space in honor of Frankel Zacharia, LLC
Auditorium in honor of Marvin and Virginia Schmid
Student lounge in honor of the David and Pamela Gross family
Student lounge in honor of Kellogg's
Tiered classroom in honor of Sam and Toffee Leftwich
EMBA classrooms (two), EMBA conference room and
south staircase in honor of Lou Jr. and Kathi Rotella
Tiered classroom in honor of the Nebraska Bankers Association
Tiered classroom in honor of Greg & Lori McMillan
Student study area in honor of Rob and MaryJo Randels

Tiered classroom in honor of Fred Simon, Omaha Steaks
Tiered classroom in honor of the Noddle Family
Student study in honor of Dr. Jack and Marty Hill
EMBA Resource Room in honor of Dr. Robert L. & JoAnn
Mathis

Outdoor areas:

Landscaping area in honor of Ross T. Ridenoure
North Student Courtyard in honor of Union Pacific

By naming these areas and rooms, the Board of Regents expresses its gratitude and appreciation to the respective donors for their support of the University of Nebraska.

SPONSORS:

William E. Conley
Vice Chancellor for Business & Finance

John E. Christensen, Chancellor
University of Nebraska at Omaha

APPROVED:

James B. Milliken
President

DATE:

April 7, 2011

TO: The Board of Regents Addendum IX-D-8
Academic Affairs

MEETING DATE: April 29, 2011

SUBJECT: Assessing Student Learning Outcomes: Licensure Results

RECOMMENDED ACTION: Report

PREVIOUS ACTION: April 16, 2010 – The Assessing Student Learning Outcomes: Licensure Results report was provided to the Board

EXPLANATION: The licensure results are provided as part of the Strategic Framework Goal 6-g.

We report on licensure examinations that allow national comparisons. The latest results follow recent trends and again were exemplary. (See attached tables on the following page.)

REPORTED BY: Kristin E. Yates
Assistant Vice President and Director of Institutional Research

DATE: April 14, 2011

**Strategic Framework 6.g.iii
Student Learning and
Success Outcomes**

Accountability Measure:

- 1) Annual or other periodic review, as available, by the Board of performance on standardized examinations and surveys.

UNMC Licensure Exam Pass Rates				
Exam		2010	2009	2008
MD Step 1	UNMC	92	91	90
	National	92	93	93
MD Step 2	UNMC	100	99	99
	National	97	97	96
Nursing	UNMC	94	93	88
	National	94	88	87
Pharmacy	UNMC	100	100	97
	National	95	98	97
Physical Therapy	UNMC	100	100	100
	National	88	87	94
DDS Part 1	UNMC	100	98	98
	National	92	92	93
DDS Part 2	UNMC	93	98	100
	National	80	93	94
Dental Hygiene	UNMC	91	100	100
	National	96	96	96

2010 Key Facts

- UNMC met or exceeded the national pass rate for all areas we measure, except one.
- UNL students exceed the national pass rate for the bar exam by 22 percentage points.

UNL Bar Examination Pass Rates		
Year	UNL	National
2008	92	82
2009	91	74
2010	95	73

TO: The Board of Regents Addendum IX-D-9
Outreach and Economic Development Ad Hoc Committee

MEETING DATE: April 29, 2011

SUBJECT: Strategic Framework Report on Entrepreneurship [5-d]

RECOMMENDED ACTION: Report

PREVIOUS ACTION: April 16, 2010 –A report on entrepreneurship was presented to the Board of Regents by the Outreach and Economic Development Ad Hoc Committee

EXPLANATION: Within in this narrative are eight (8) exhibits describing the six accountability measures for the Strategic Framework item 5-d, termed Entrepreneurship.

Exhibit #1 is the set of metric recommendations in narrative form set forth in April 2010.

Exhibit #2 is an outline of the six data sources used to track the metrics in each category. Our baseline data is the latest available from our University entrepreneurship programs. This report covers July 1, 2009, through June 30, 2010. We feel this set of measurements is a broad based, strategic approach for discussion and evaluation of the University's entrepreneurship efforts. They measure high growth as well as life style business opportunities in Nebraska, our relationship to distressed companies or communities, and existing and successful operations.

Exhibit #3 is Training. These are the number of hours invested by participants in activities and seminars led by the University of Nebraska. It is an aggregate number from the members of the University of Nebraska Entrepreneurship Team (UNET). Our goal was to increase our activity by 5% over last year's total of 83,940 training hours. Our actual count was 65,362 hours- some 18,578 hours, or 22% short of our projection. This was caused by the economic challenges from persons and organizations not having the resources and confidence to make the investment in training sessions and conferences offered by the University.

Exhibit #4 is Assistance. This is an aggregate number of clients assisted with more than 30 minutes of counseling by one our units within UNET at the University. Clients range from current businesses, to people exploring business potential, to students of all ages and education sectors. We have placed a standard on our assistance in an attempt to separate inquiries from assisting clients by virtue of a brief phone call, email, or office visit, for example. The goal was to increase by 5% the number of clients assisted over last year's total of 10,904. Our actual count was 10,307 clients- some 597 clients, or 5% short of our projection. As with exhibit #3, this was caused by issues within our economy from persons and organizations not having the resources and

confidence to take their personal time to attend offerings by the University.

Exhibit #5 is labeled SBIR/STTR. These stand for Small Business Innovation Research and Small Business Technology Transfer. In a brief description, these are federal programs meant to encourage innovation, research, and a partnership between higher education and the private sector. We now have some good news to share. We believe the increase in the two measured metrics and the related dollar of awards is because of the investment toward a full time individual (who presented to you last year) and a half time support person over the past two years is paying dividends in our state. Their presence in the field with our faculty and partners around the state has begun to get some traction.

The first measurement is the number of applications. Last year we had 70 applications and our goal was to increase this by 10%. Our actual count was 77 applications- which was an increase of seven (7) or 10%- which meets our goal.

The second item on the slide is the number of awards received. Our goal was to exceed last year's count of 18 by 5%. Our actual count was 21 awards- which was an increase of three (3) or 17%- which exceeds our goal of 5%.

The third item on the slide is the dollar amount received from the awards. There is no metric, just a reported amount because of the small number of awards and potential wide fluctuation in dollar amount from year to year. The actual awards were \$4,401,328- which was an increase of \$1,649,428, or an increase of 60% over last year's awards of \$2,751,900.

Exhibit #6 is labeled investment. It is an aggregate number of dollars including private equity, debt financing such as commercial, Small Business Administration (SBA), United States Department of Agriculture (USDA), and other government sources outside of any SBIR or STTR grants, that is- as well as any inputs from angel investments or venture capital. In this category, even though we came off a banner year, our goal was to increase last year's \$56,056,229 by 5%. Our actual amount was \$52,237,513, or 7% short of our goal. Even though the previous year was impacted by the tremendous amount of stimulus dollars and the repackaging of loans, our optimism did not become reality.

Exhibit #7 is Startups. This is the number of new companies started or transitioned by virtue of consultation and guidance from a unit of the University. In this category, our goal was to exceed last year's number of 460 by 5%. Our actual count was 583, which was an increase of 123, or a positive 27%. The correlation between exhibit #6 and this one is that even though we had more business startups and transitions, there were fewer dollars invested during those transactions.

And exhibit #8 is the recommendations/goals of our metrics for the next year.

Following the exhibits is a current list of the members of the UNET.

PROJECT COST: None

SOURCE OF FUNDS: None

SPONSOR: Peter G. Kotsiopoulos
Senior Advisor to the President for Economic Development

APPROVED: James B. Milliken, President
University of Nebraska

DATE: April 8, 2011

Recommendations for Accountability Measures

Reporting Period	Accountability Measure	Report Date	Reporting Committee
Spring 2011	1) Increase training hours invested by program participants by 5% of 83,940. 2) Increase number of clients assisted by 5% of 10,904. 3) Increase the number of SBIR/STTR applications by 10% of 70. 4) Increase the number of SBIR/STTR award amounts by 5% of 18. 5) Increase investment in NU assisted companies by 5% of \$56,056,229. 6) Increase NU assisted business start-ups and transitions by 5% of 460.	April 2011	Outreach
Spring 2012	Evaluate and modify annual targets as appropriate	April 2012	Outreach
Spring 2013	Evaluate and modify annual targets as appropriate	April 2013	Outreach

Proposed accountability measures

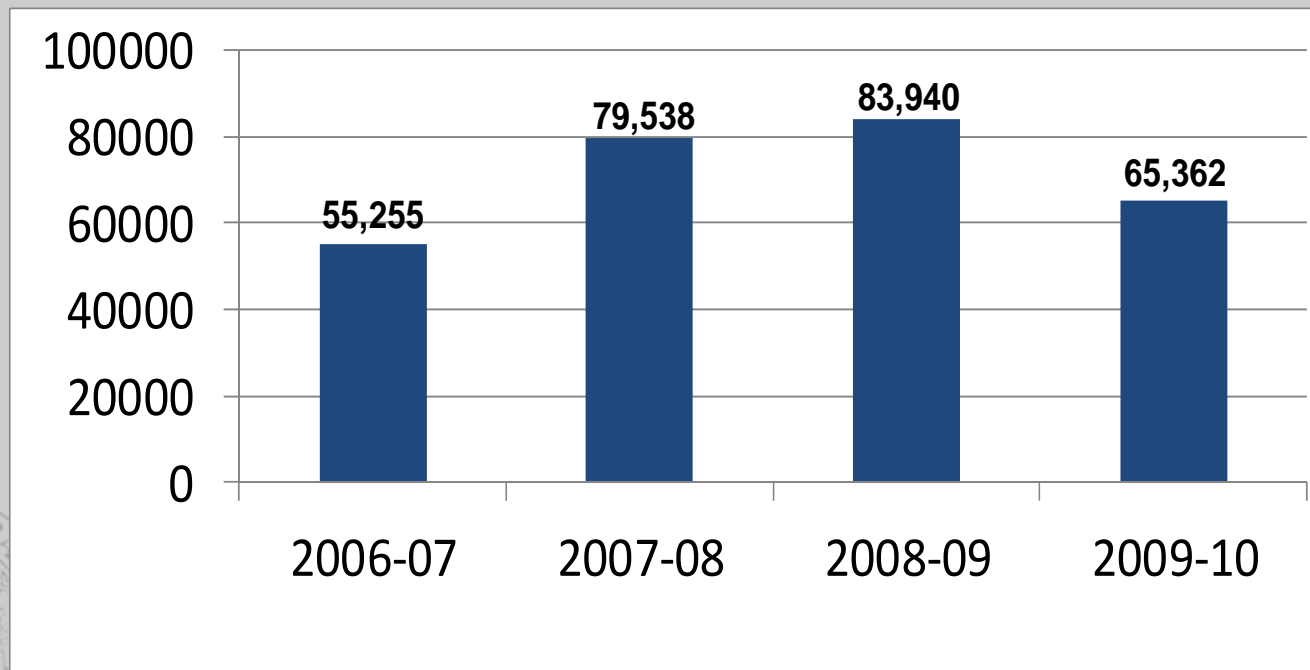
- Training hours invested by program participants
- Number of clients assisted
- SBIR/STTR
 - Number of Applications
 - Number of Awards
 - Dollars received from awards
- Investment: Dollars Invested in NU-assisted Companies
- Business startups and transitions



Training

Increase training hours invested by University program participants by 5%

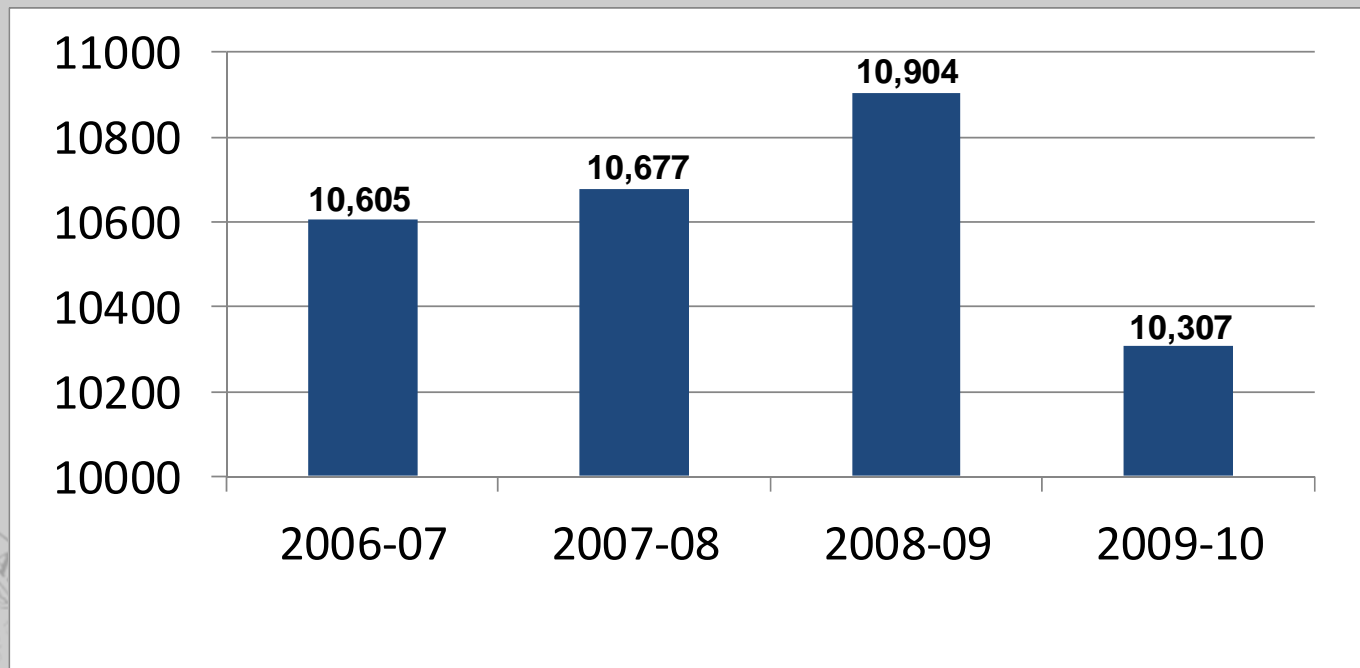
- Did not meet goal = -18,578 (-22%)



Assistance

Increase number of University clients assisted by 5%

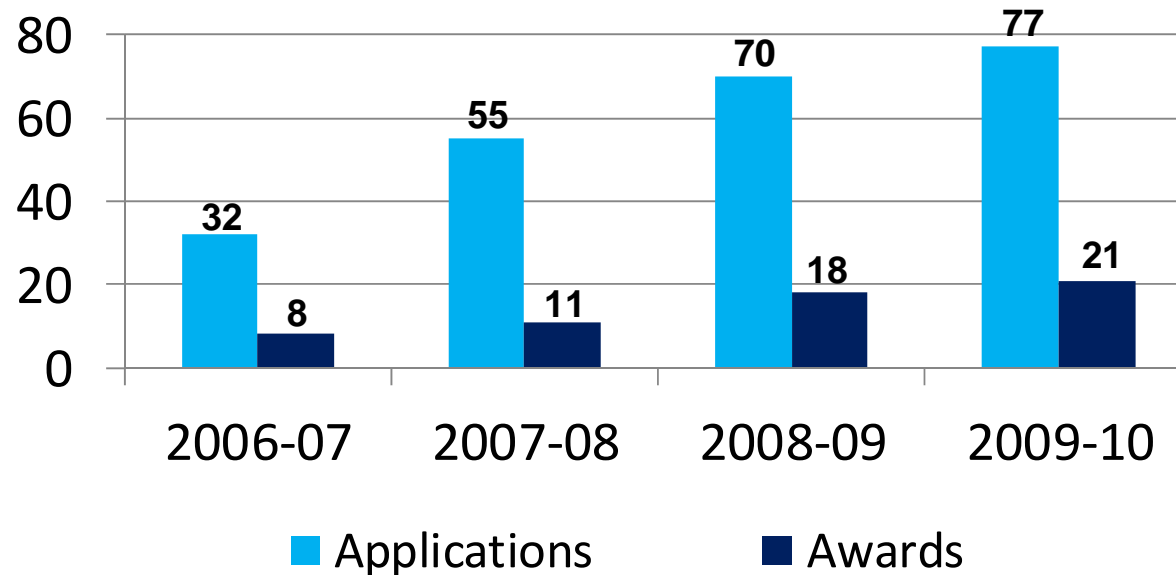
- Did not meet goal = -597 (-5%)



SBIR/STTR

Increase applications by 10% and awards by 5%

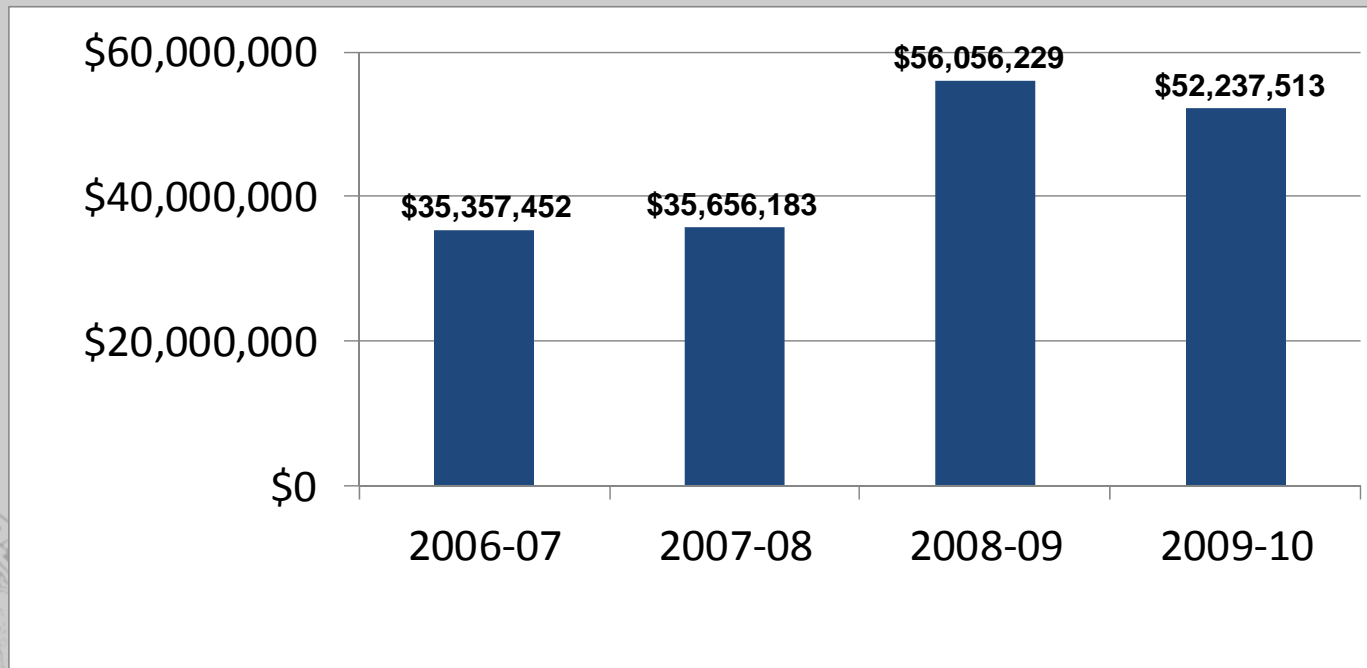
- Number of Applications: Met Goal = +7 (+10%)
- Number of Awards: Exceeded Goal = +3 (+17%)
- Dollars Received from Awards: +\$1,649,428 (+60%) - No goal



Investment

**Increase \$ invested in University
assisted companies by 5% per year**

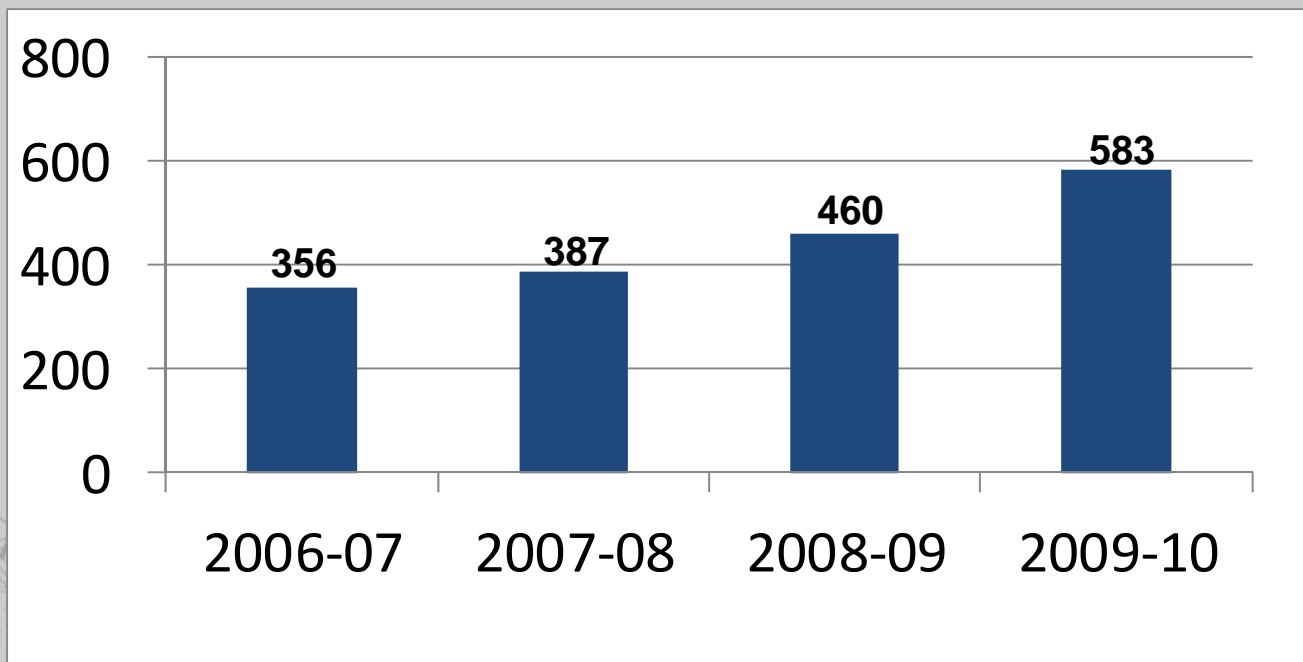
- Did not meet goal = $-\$3,818,716$ (-7%)



Start-ups

Increase University assisted business start-ups and transitions by 5%

- Exceeded goal = +123 (+27%)



Recommendations for Accountability Measures

Reporting Period	Accountability Measure	Report Date	Reporting Committee
Spring 2012	1) Increase training hours invested by program participants by 5% of 65,362. 2) Increase number of clients assisted by 5% of 10,307. 3) Increase the number of SBIR/STTR applications by 10% of 77. 4) Increase the number of SBIR/STTR award amounts by 5% of 21. 5) Increase investment in NU assisted companies by 5% of \$52,237,513. 6) Increase NU assisted business start-ups and transitions by 5% of 583.	April 2012	Outreach
Spring 2013	Evaluate and modify annual targets as appropriate	April 2013	Outreach
Spring 2014	Evaluate and modify annual targets as appropriate	April 2014	Outreach

University of Nebraska Entrepreneurship Team (UNET)

Bob Bernier - Assistant Dean, Nebraska Business Development Center, UNO

Elizabeth Birnstihl - Associate Dean, Cooperative Extension Division, IANR

Lori Byrne – Assistant Director, Food Processing Center, IANR

Tom Chapman – Director, Entrepreneurship and Innovation, Greater Omaha Chamber

David Conrad – Executive Director, NUtech Ventures, UNL

Michael Dixon - Director, UNeMED Corporation, UNMC

Dale Eesley - Assistant Professor, Marketing and Management, UNO

John Falconer – Director, Sponsored Programs, UNK

Shelly Beachler – Interim Assistant to the Vice President for University Affairs, University of Nebraska

Rolando Flores - Department Head, Food Science & Technology, IANR

Mark Gustafson - Coordinator Nebraska Rural Initiative, IANR

Matt Hammons - Director, Federal Government Relations, University of Nebraska

Shawn Kaskie – Director, Center for Rural Research/Development, UNK

Peter Kotsiopoulos – Senior Adviser to the President, Economic Development, University of Nebraska

James Linder - Executive Director, UNeMED Corporation, UNMC

Jake Messersmith – Assistant Professor, Management, UNK

Connie Reimers-Hild - Associate Extension Educator, Southeast Research & Extension Center, IANR

Marilyn Schlake – Coordinator, Center for Applied Rural Innovation, IANR

Sandra Scofield - Director, Nebraska Rural Initiative, IANR

Weldon Sleight – Dean, Nebraska College of Technical Agriculture, IANR

Kathleen Thornton - Associate Director, Management, UNL

TO: The Board of Regents Addendum IX-D-10
Academic Affairs

MEETING DATE: April 29, 2011

SUBJECT: Strategic Framework report on Workforce Opportunities and Academic Program Alignment

RECOMMENDED ACTION: Report

PREVIOUS ACTION: March 5, 2010 – An updated Workforce Opportunities and Academic Program Alignment booklet was provided to the Board of Regents

EXPLANATION: In 2005, the University of Nebraska analyzed 16 studies of workforce needs in the State of Nebraska and compiled a list of the six major categories for development. They are Business Marketing and Management; Communication and Information Systems; Environmental and Agricultural Systems; Health Sciences; Human Sciences; and Industrial, Manufacturing and Engineering Systems. Within each of these six broad employment categories, the NU campuses provide numerous instructional programs to prepare the Nebraska workforce. In November 2006, the outcome of this research was presented to the Board of Regents and we began indexing all existing academic programs that directly addressed jobs in these six areas. In subsequent years, NU has updated the progress by adding new instructional programs to meet workforce needs.

This report lists the six major areas and provides a list of NU programs currently in place or in development.

New programs that have been added this year are highlighted in purple and new programs in development are highlighted in yellow.

APPROVED: Linda Ray Pratt
Executive Vice President and Provost

DATE: April 7, 2011

Accountability Measure:

3. The University of Nebraska will play a critical role in building a talented, competitive workforce and knowledge-based economy in Nebraska in partnership with the state, private sector and other educational institutions.

- h. Pursue excellence in educational attainment aligned with the long-term interests of the state.
 - i. *Analyze areas of future workforce demand, including job and self-employment opportunities in non-growth rural communities and economically disadvantaged urban areas, and strengthen or develop curricula and programs appropriate to the university in alignment with those areas.*
 - iii. *Develop distance education and other educational programs that permit Nebraskans to prepare for jobs and opportunities to meet future workforce demands.*

Reporting Period	Accountability Measure	Report Date	Reporting Committee
Fall 2010	Index and analyze faculty research that may contribute to new workforce opportunities.	March 2011	Outreach
Fall 2011	Review new internal and external research on workforce needs and update categories of employment for purposes of aligning university programs to changing needs.	March 2012	Outreach
Fall 2012	Address program alignment revisions to meet workforce needs based on Fall 2011 data.	March 2013	Outreach

In 2005, the University of Nebraska analyzed 16 studies of workforce needs in the State of Nebraska and compiled a list of the six major categories for development. They are Business Marketing and Management; Communication and Information Systems; Environmental and Agricultural Systems; Health Sciences; Human Sciences; and Industrial, Manufacturing and Engineering Systems. Within each of these six broad employment categories, the NU campuses provide numerous instructional programs to prepare the Nebraska workforce. In November 2006, the outcome of this research was presented to the Board of Regents and we began indexing all existing academic programs that directly addressed jobs in these six areas. In subsequent years, NU has updated the progress by adding new instructional programs to meet workforce needs.

This booklet lists the six major areas and provides a list of NU programs currently in place or in development.

New programs that have been added this year are highlighted in purple and new programs in development are highlighted in yellow.

Future Workforce Opportunities and Academic Program Alignment
University of Nebraska Programs

	Academic Programs	Related Programs	Programs Under Development
Business Marketing and Management			
Administration, Finance, Sales			
UNK	BS/MBA Business Administration BS Chemistry, Business/Sales Emphasis		
UNL	BS/MBA Business Administration BS Management MBA with Executive Leadership Specialization MA Business with Global Leadership emphasis BS/MA Finance Master of Public Accounting BS Marketing BA/BS/MA/PhD Economics BS/MBA Agribusiness MS/PhD Agricultural Economics		
UNMC		Administrative Colloquium	
UNO	BSBA/MPA Accounting MBE Business Administration-Executive MBA Business Administration BSBA/BGS/MA/MS Economics BSBA Management BSBA Marketing BSBA/MS Real Estate and Land Use Economics-Real Estate Certification Center for Collaboration Science		

Future Workforce Opportunities and Academic Program Alignment
University of Nebraska Programs

	Academic Programs	Related Programs	Programs Under Development
Business Marketing and Management			
Business Services			
UNK	BS Business Administration		
UNL	BS Accounting BS Management BS Marketing MA Management Information Systems BA/BS/MA/PhD Actuarial Science BS/MS/PhD Textiles, Clothing, & Design with an option Merchandising BS/MBA Agribusiness BS/MS/PhD Agricultural Economics BS Hospitality, Restaurant, & Tourism Mgmt MA Agriculture Joint PhD in Psychology (with UNO)		
UNO	BSBA/MPA Accounting BSBA/MS/MBA Business Administration BSBA Economics MS Industrial and Organizational Psychology BSBA Management Graduate Certificate Human Resource Training (Human Resources and Training and Development) BSBA Marketing MA Psychology - Industrial and Organizational Psychology BSBA Real Estate and Land Use Economics-Real Estate Certification Center for Collaboration Science Joint PhD in Psychology (with UNL)	Nebraska Business Development Center Center for Economic Education	

Future Workforce Opportunities and Academic Program Alignment
University of Nebraska Programs

	Academic Programs	Related Programs	Programs Under Development
Business Marketing and Management			
Entrepreneurship			
UNK	BS Business Administration BA/BS Journalism Advertising BA/BS Journalism Public Relations BA/BS Multimedia BS Organizational Communication BFA Visual Communication and Design BS Chemistry, Business/Sales Emphasis BS Sports Administration BS Travel and Tourism Option, Recreation, Parks and Tourism Management BS Exercise Science Management		
UNL	BS Management BS/MS Textiles, Clothing, & Design - Merchandising PhD Human Sciences with a specialization Textiles, Clothing, & Design and an option in Merchandising MBA Business Administration		
UNO	BSBA - Innovation & Entrepreneurship		

**Future Workforce Opportunities and Academic Program Alignment
University of Nebraska Programs**

	Academic Programs	Related Programs	Programs Under Development
Business Marketing and Management			
Financial Services			
UNK	BS Business Administration BS Computer Information Systems Comprehensive BS Applied Computer Science		
UNL	BA/BS/MA/PhD Economics MS Family & Consumer Sciences with an option Family Financial Planning BS/MPA Accounting BS Finance BS/MBA Agribusiness MS/PhD Agricultural Economics		
UNO	BSBA/MPA Accounting BSBA Finance MA/MS Economics BGS/BSIS/MS Management Information Systems		

Future Workforce Opportunities and Academic Program Alignment
University of Nebraska Programs

	Academic Programs	Related Programs	Programs Under Development
Business Marketing and Management			
Public Service & Administration			
UNK	BS Applied Computer Science BS Computer Information Systems BA/BS Political Science BS Public Administration BA Social Science Comprehensive BS Social Work		Undergraduate Certificate in Civic Engagement
UNL	BA/BS/MA/PhD Political Science BA/BS/MA/PhD Sociology BA/BS/MA/PhD Psychology Masters Community & Regional Planning Certificate Policy Analysis & Evaluation MS Leadership Education PhD/EdD Human Sciences Online Public Policy Undergraduate Certificate		
UNMC	MPH Public Health PhD Health Promotion and Disease Prevention Research PhD Health Services Research, Administration and Policy Professional Certificate in Public Health		Professional Certificate in Emergency Preparedness Professional Certificate in Infectious Disease Epidemiology
UNO	BGS/BS Aviation BSBA/MA/MS Economics BGS General Administration BA/BS/MA/MS Political Science BGS/MPA/PhD Public Administration BS Sociology Graduate Certificate in Business for Bioscientists		BS in Public Health

Future Workforce Opportunities and Academic Program Alignment
University of Nebraska Programs

	Academic Programs	Related Programs	Programs Under Development
Communication and Information Systems			
Arts, AV Technology & Communication			
UNK	BA/BS Multimedia BFA Visual Communications and Design BS Geography Spatial/GIS Option BS Computer Information Systems Comprehensive BS Applied Computer Science BS Computer Science Comprehensive		
UNL	BA/BS/MA/PhD Communication Studies BS Agricultural Journalism BA/BS/MA/PhD Computer Science & Engineering BA/BS Film Studies MA Art History Graduate Certificate in Teaching of Writing		
UNO	BGS Art BAAH Art History BAC/BSC Broadcasting BGS/MA Communication MS Computer Science Graduate Certificate Technical Communication Graduate Certificate Instructional Communication BA/BS Journalism BAC/BSC Speech Communication BASA/BFA Studio Art Center for Collaboration Science		

Future Workforce Opportunities and Academic Program Alignment
University of Nebraska Programs

	Academic Programs	Related Programs	Programs Under Development
Communication and Information Systems			
Information Services			
UNK	BS Business Administration, Emphasis Management Information Systems BS Telecommunications Management BS Geography Spatial/GIS Option BS Computer Information Systems Comprehensive BS Computer Science Comprehensive		
UNL	JD Edwards Honors Program in Computer Science & Management BS Management MA Management Information Systems BS Computer Engineering BS Electronics Engineering Master of Engineering MS/PhD Statistics		
UNO	BS/BGS/MS Computer Science BS Information Assurance BA International Studies BGS Library Science BSED Library Media BGS/BS Management Information Systems Graduate Certificate MIS-Project Management Graduate Certificate MIS-Systems Analysis and Design Graduate Certificate MIS-Information Assurance BA/BS Speech Communication Graduate Certificate in Computer Science-Artificial Intelligence Graduate Certificate in Computer Science-Communications Network Graduate Certificate in Computer Science-Software Engineering Graduate Certificate in Computer Science-Systems & Architecture BS in IT Innovation	Geographic Information Systems Nebraska University Center for Information Assurance (NUCIA)	Undergraduate Certificate in Data Management Undergraduate Certificate in Technical Communication Undergraduate Certificate in Systems Development MS in Information Assurance

**Future Workforce Opportunities and Academic Program Alignment
University of Nebraska Programs**

	Academic Programs	Related Programs	Programs Under Development
Communication and Information Systems			
Information Technology			
UNK	BS Geography Spatial/GIS Option BS Computer Information Systems BS Applied Computer Science BS Computer Science Comprehensive		
UNL	BA/BS/MA/PhD Computer Science & Engineering BS/PhD Computer Engineering JD Edwards Honors Program in Computer Science & Management BS/PhD Computer Engineering MS Telecommunications Engineering		
UNMC	MS/PhD Pathology/Microbiology (Bioinformatics track)	Robotics Initiatives Simulation Center Consumer Health Information Program for Nebraskans	
UNO	BS Bioinformatics BS/BGS Computer Science MS Computer Science BGS/MS/PhD Information Technology BGS/BS/MS Management Information Systems School of Interdisciplinary Informatics in the College of Information Science & Technology	Nebraska University Center for Information Assurance	MS and PhD in Biomedical Informatics (with UNMC)

Future Workforce Opportunities and Academic Program Alignment
University of Nebraska Programs

	Academic Programs	Related Programs	Programs Under Development
Communication and Information Systems			
Software			
UNK	BS Geography Spatial/GIS Option BS Computer Information Systems Comprehensive BS Applied Computer Science BS Computer Science Comprehensive		
UNL	BA/BS/MA/PhD Computer Science & Engineering BS/MS/PhD Computer Engineering BS Management (Management Information Systems)		
UNMC			
UNO	BS/BGS/MS Computer Science BGS/BS/MS Management Information Systems MS Management Information Systems	Nebraska University Center for Information Assurance	

Communication and Information Systems			
Transportation, Distribution, Warehousing, and Logistics			
UNK	BS Industrial Distribution BS Geography Spatial/GIS Option		
UNL	BS Industrial Engineering MS/PhD Industrial & Management Systems Engineering MS Manufacturing Engineering ME Engineering Management		
UNO	BS/BGS Aviation MPA Public Administration		

Future Workforce Opportunities and Academic Program Alignment
University of Nebraska Programs

	Academic Programs	Related Programs	Programs Under Development
Environmental and Agricultural Systems			
Animal Systems			
UNL	BS/MS/PhD Animal Science BS Fisheries & Wildlife BS Natural Resources & Environmental Economics MS/PhD Natural Resources BS Grazing Livestock Systems BS Grassland Ecology & Management BS Environmental Soil Science BS Water Science BS Veterinary Science BS Veterinary Technology DVM cooperative program with Iowa State University PhD Integrative Biomedical Sciences Nebraska Beef Industry Scholars Certificate Program		
Environmental and Agricultural Systems			
Agriculture, Food, Natural Resources			
UNK	MS Biology BS Chemistry Comprehensive, Environmental/Ag BS Geography Spatial/GIS Option BS Geography, Environmental Emphasis BS Biology, Wildlife Emphasis		
UNL	BA/BS Environmental Studies Diversified Agricultural Studies - minor MS/PhD Toxicology (Joint with UNL) Agricultural Economics - minor Doctor of Plant Health Water for Food Institute		
UNMC	MS/PhD Toxicology (Joint with UNL)	Center for Environmental Toxicology Center for Human Nutrition International Center for Sports Nutrition	
UNO	BA/BS/BGS Biology BGS Environmental Services		

Future Workforce Opportunities and Academic Program Alignment
University of Nebraska Programs

	Academic Programs	Related Programs	Programs Under Development
Environmental and Agricultural Systems			
Agribusiness			
UNK	BS Agribusiness BS Chemistry, Environmental/Ag Emphasis BS Geography, Spatial/GIS Emphasis BS Geography, Environmental Emphasis BS Biology		
UNL	BS Marketing BS/MA/MBA Agribusiness BS/MS/PhD Agricultural Economics BS Agricultural Education BS Hospitality, Restaurant, & Tourism Management MS Leadership Education PhD/ED Human Sciences BS/MS/PhD Agronomy MS Horticulture PhD Horticulture and Forestry BS Landscape Architecture BA/BS Plant Biology BS/MS/PhD Animal Science BS/MS/PhD Biological Chemistry BS Agricultural Engineering BS/MS Biological Systems Engineering BS/MS Mechanized Systems Management BS in PGA Golf Management BS Diversified Agriculture BS Insect Science MS/PhD Entomology BS Food Science & Technology BS Food Technology for Companion Animals MS/PhD Food Science Graduate certificate in Food Safety and Defense BS Plant Protection Sciences MS/PhD Plant Pathology BS Environmental Soil Science BS Environmental Studies BS Fisheries & Wildlife Leadership Undergraduate Certificate Legal Studies Undergraduate Certificate		

Future Workforce Opportunities and Academic Program Alignment
University of Nebraska Programs

	Academic Programs	Related Programs	Programs Under Development
Environmental and Agricultural Systems			
Agribusiness (continued)			
UNL	(continued) BS Natural Resources & Environ. Econ. MS/PhD Natural Resources BS Grazing Livestock Systems BS Grassland Ecology & Management BS Water Science BS Veterinary Science BS Veterinary Technologist PhD Integrative Biomedical Sciences MA Agriculture Nebraska Beef Industry Scholars Certificate Program Water for Food Institute		
Environmental and Agricultural Systems			
Environmental Service Systems			
UNL	MS/PhD Agricultural Economics BS Agricultural Journalism BS/MS/PhD Agronomy MS Horticulture PhD Horticulture and Forestry BS Landscape Architecture MS Animal Science MS Biological Systems Engineering BS Insect Science MS/PhD Entomology BS Plant Protection Sciences MS/PhD Plant Pathology BS Environmental Studies BS Fisheries & Wildlife BS Natural Resources & Environ. Econ. MS/PhD Natural Resources BS Grazing Livestock Systems BS Grassland Ecology & Management BS Environmental Soil Science BS Water Science Doctor of Plant Health Water for Food Institute		

Future Workforce Opportunities and Academic Program Alignment
University of Nebraska Programs

	Academic Programs	Related Programs	Programs Under Development
Environmental and Agricultural Systems			
Food Production and Processing Systems			
UNL	BS/MS/PhD Biological Chemistry BS Food Science & Technology MS/PhD Food Science Nebraska Beef Industry Scholars Certificate Program		

Environmental and Agricultural Systems			
Natural Resources Systems			
UNL	MS/PhD Agricultural Economics BS Agricultural Journalism BS/MS/PhD Agronomy MS Horticulture PhD Horticulture and Forestry BA/MS/PhD Animal Science MS Biological Systems Engineering BS Insect Science MS/PhD Entomology BS Plant Protection Sciences MS/PhD Plant Pathology BS Environmental Studies BS Fisheries & Wildlife BS Natural Resources & Environ. Econ. MS/PhD Natural Resources BS Grazing Livestock Systems BS Grassland Ecology & Management BS Environmental Soil Science BS Water Science BS Turfgrass and Landscape Management Water for Food Institute		

Future Workforce Opportunities and Academic Program Alignment
University of Nebraska Programs

	Academic Programs	Related Programs	Programs Under Development
Environmental and Agricultural Systems			
Plant Systems			
UNL	BS/MS/PhD Agronomy BS/MS Horticulture PhD Horticulture and Forestry BS Landscape Architecture BA/BS Plant Biology BS Insect Science MS/PhD Entomology BS Food Science & Technology MS/PhD Food Science BS Plant Protection Sciences MS/PhD Plant Pathology BS Fisheries & Wildlife BS Natural Resources & Environ. Econ. MS/PhD Natural Resources BS Grazing Livestock Systems BS Grassland Ecology & Management BS Environmental Soil Science BS Water Science Center for Plant Science Innovation Doctor of Plant Health		
Environmental and Agricultural Systems			
Power, Structural, and Technical Systems			
UNL	BS Agricultural Engineering BS/MS Biological Systems Engineering BS/MS Mechanized Systems Management Graduate Certificate Program in Survey Research & Methodology Graduate Certificate in Mixed Methods Research		

Future Workforce Opportunities and Academic Program Alignment
University of Nebraska Programs

	Academic Programs	Related Programs	Programs Under Development
Environmental and Agricultural Systems			
Biotechnology			
UNK	BS Chemistry Comprehensive BS Biology BS Degree with a comprehensive major in Molecular Biology		
UNL	BA/BS Biochemistry MA/PhD Biochemistry BS/MS/PhD Biological Chemistry BS Food Science & Technology MS/PhD Food Science MS/PhD Plant Pathology		BS in Microbiology
UNMC	BS Biotechnology (Co-operative with UNO) MS and PhD Pathology/Microbiology (Bioinformatics)	Center for Drug Delivery and Nanomedicine	
UNO	BS Bioinformatics BS Biotechnology (Co-operative with UNMC)		MS and PhD in Biomedical Informatics (with UNMC)

Environmental and Agricultural Systems			
Processed Foods			
UNK	BA/BS Chemistry		
UNL	BA/BS/MA/PhD Biochemistry BS Food Science & Technology MS/PhD Food Science		

Future Workforce Opportunities and Academic Program Alignment
University of Nebraska Programs

	Academic Programs	Related Programs	Programs Under Development
Health Sciences			
Biopharmaceuticals			
UNK	BS Professional Chemistry and Molecular Biology Pre-pharmacy program		
UNL	BA/BS/MA/PhD Biochemistry BA/BSMA/PhD Biological Sciences BA/BS/MA/PhD Chemistry BS/MS/PhD Chemical and Biomolecular Engineering BS/MS/PhD Biological Chemistry		
UNMC	MS/PhD Pharmacology and Experimental Neuroscience MS/PhD Pharmaceutical Sciences Graduate Certificate Program in Nanomedicine for Diagnosis & Therapy	Center for Neurodegenerative Disorders Center for Drug Delivery and Nanomedicine	
UNO	BA/BS/BGS Chemistry		

Future Workforce Opportunities and Academic Program Alignment
University of Nebraska Programs

	Academic Programs	Related Programs	Programs Under Development
Health Sciences			
Health Care			
UNK	BA/BS Chemistry BA/BS Psychology, Psychobiology option BS Sociology, Community Emphasis BS Radiography Comprehensive BS Respiratory Therapy Comprehensive BS Health Science MEd Community Counseling BS Exercise Science MEd Speech-Language Pathology 15 pre-professional concentrations (e.g. pre-chiropractic, pre-medical technology, and pre-radiologic technology) BS Biology BS in Athletic Training		
UNL	15 pre-professional concentrations (e.g. pre-chiropractic, pre-medical technology, and pre-radiologic technology) MS Speech Language Pathology Doctor of Audiology BS in Education & Human Sciences- Speech Language Pathology and Audiology Graduate Certificate in Food Safety and Defense Graduate Certificate in Early Childhood Special Education Graduate Certificate in Autism Spectrum Disorders and Severe Disabilities		

Future Workforce Opportunities and Academic Program Alignment
University of Nebraska Programs

	Academic Programs	Related Programs	Programs Under Development
Health Sciences			
Health Care (continued)			
UNMC	All Academic Programs in the College of Medicine (BS and MD) All Academic Programs in the College of Pharmacy (Pharm D) All Academic Programs in the College of Dentistry (BS and DDS) All Academic Programs in the College of Nursing (BSN, MSN, PhD) All Academic Programs in the School of Allied Health (BSRT, BSCLS, DPT, MPA, MPS) All Academic Programs in the College of Public Health (MPH) PhD Health Promotion and Disease Prevention Research PhD Health Services Research, Administration and Policy Post-Baccalaureate Certificate in Cytotechnology Post-Baccalaureate Certificate in Medical Nutrition Education Post-Baccalaureate Certificate in Family Medical Therapy (with UNL) Center for Clinical & Translational Research Center for Transplantation Medicine Center for Staphylococcal Research in the College of Medicine Center for Global Health and Development in the College of Public Health Doctor of Nursing Practice	Rural Health Education Program Office Eppley Center for Research and Cancer Care International Studies Program Summer Medical and Dental Education Program (SMDEP) Olson Center for Women's Health Mobile Nursing Center	Professional Certificate in Emergency Preparedness Professional Certificate in Infectious Disease Epidemiology
UNO	MBA Business Administration MPA Public Administration MA Sociology MS Special Education (Behavioral Disorders, Early Childhood Deaf/Hard of Hearing, Mild/Moderate Disabilities, Resource Teaching and Learning Disabilities) BS Degree with a major in Neuroscience BS/MA in Athletic Training		PhD in Exercise Science

Future Workforce Opportunities and Academic Program Alignment
University of Nebraska Programs

	Academic Programs	Related Programs	Programs Under Development
Health Sciences			
Medical Devices			
UNK	BS Chemistry BS Medical Technology Comprehensive Pre-Nuclear Medicine Technology Program Pre-Radiologic Technology Program		
UNL	PhD Integrative Biomedical Sciences BS Biological Systems Engineering with an emphasis Biomedical Engineering PhD Engineering with a specialization Biomedical Engineering		
UNMC		Robotics Initiatives	

Future Workforce Opportunities and Academic Program Alignment
University of Nebraska Programs

	Academic Programs	Related Programs	Programs Under Development
Human Sciences			
Education, Social Services			
UNK	BS Family Studies MEd Speech-Language Pathology MEd School Counseling Elementary, Secondary, and Student Affairs Community Counseling EdS Counseling and School Psychology MAEd School Principalship K-6, 7-12, Supervisor of Academic Area, Supervisor of Special Education EdS School Superintendent BS Sociology BS Social Work MA Instructional Technology MAEd Exercise Science, General Physical Education with Specialization in Sports Administration or Recreation and Leisure Master Teacher of Physical Education (Specializations in Pedagogy or Special Populations) MAEd (Curriculum and Instruction, Reading K-12, Special Education) BA/BS Psychology BS Geography Spatial/GIS Option BAEd Geography 7-12 Teaching Subject Endorsement BSEd Geography Teaching Subject Endorsement BAEd History 7-12 Teaching Subject Endorsement BSEd Physical Science 7-12 Teaching Endorsement BSEd Physics 7-12 Teaching Subject Endorsement BSEd Psychology 7-12 Teaching Subject Endorsement BAEd Political Science 7-12 Teaching Endorsement BAEd Social Science 7-12 Teaching Endorsement BSEd Mathematics 7-12 Teaching Field Endorsement BAEd Mathematics 7-12 Teaching Subject Endorsement BSEd Biology 7-12 Teaching Field Endorsement BSEd Chemistry 7-12 Teaching Field Endorsement		

**Future Workforce Opportunities and Academic Program Alignment
University of Nebraska Programs**

	Academic Programs	Related Programs	Programs Under Development
Human Sciences			
Education, Social Services (continued)			
UNL	Bachelor/Master of Music Education MS Family & Consumer Sciences with an option Marriage & Family Therapy PhD Human Sciences with a specialization Family & Consumer Sciences and an option Marriage & Family Therapy BS Education & Human Sciences with a major Family & Consumer Science Education BS Education & Human Science with a major Child Development/Early Childhood BS Education & Human Science with a major Early Childhood Education BS Education & Human Sciences with a major Family Sciences MS Family & Consumer Sciences with a specialization in Youth Development Graduate certificate Youth Development BS Education & Human Sciences with a major Elementary Education BS Education & Human Sciences with a major Middle Level Education BS Education & Human Sciences with a major Secondary Education (and teaching endorsements various areas) MA/MEd Teaching, Learning, & Teacher Education EdD/PhD Educational Studies with a specialization Teaching Learning & Curriculum BS Education & Human Sciences with a major Special Education MA/EdS Educational Psychology with a specialization School Psychology MA Educational Psychology (Specializations in Cognition, Learning, & Development; Qualitative and Quantitative Psychometric Methods; and Counseling Psychology) PhD Psychological Studies Education (Specializations in School Psychology; Cognition, Learning & Development; Qualitative and Quantitative Psychometric Methods, Counseling Psychology)		

Future Workforce Opportunities and Academic Program Alignment
University of Nebraska Programs

	Academic Programs	Related Programs	Programs Under Development
Human Sciences			
Education, Social Services (continued)			
UNL	(continued) MEd Educational Administration (K-12 principalship) MA/MEd Educational Administration with a focus Higher Education, Student Affairs, or Athletic Administration EdD Educational Administration EdD/PhD Educational Studies with a specialization Educational Leadership Higher Education Certificate program for K-12 Superintendents PhD/ED Human Sciences PhD in Music Graduate Certificate Program for a K-3 Mathematics Specialist Graduate Certificate Program in Insect Biology for Educators Certificate Program The University of Nebraska-Boys Town Center on Child and Family Well Being Graduate Certificate in Early Childhood Special Education Graduate Certificate in Autism Spectrum Disorders and Severe Disabilities		
UNMC		Center for Biopreparedness Education (shared with Creighton)	
UNO	BA/BGS Black Studies MA/MS Counseling- Community Counseling MA/MS Counseling- Elementary Counseling MA/MS Counseling - (Gerontology, Secondary Counseling, Student Affairs Practice in Higher Education) MS Criminal Justice MS Educational Administration (Educational Media & School Library Administration, Elementary School Administration, Secondary School Administration, Curriculum Specialist) EdS, EdD Educational Administration BSED Elementary Education	Teaching Academy Project Career Advancement and Development for Recruits and Experienced Teachers (CADRE) Certification Alternatives Reaching Exceptional Students (CARES)	

**Future Workforce Opportunities and Academic Program Alignment
University of Nebraska Programs**

	Academic Programs	Related Programs	Programs Under Development
Human Sciences			
Education, Social Services (continued)			
UNO	(continued) MA/MS Elementary Education (with various endorsements) Graduate certificate Instruction in Urban Schools Certificate ESL BSG/MA Gerontology Certificate Gerontology BGS Healthcare Administration BSED Health Education MA Health, Physical Education & Recreation MA/MS History-Education Subject Endorsement BM/MM Music Education BSED Physical Education MA Psychology Cert/MS/EdS School Psychology BSED Secondary Education (with various teaching endorsements) BSW/MSW Social Work MA Sociology MS Special Education (with various endorsements) BS/MA in Athletic Training		

**Future Workforce Opportunities and Academic Program Alignment
University of Nebraska Programs**

	Academic Programs	Related Programs	Programs Under Development
Human Sciences			
Law, Justice, Public Safety, Security			
UNK	BA/BS Psychology BA/BS Criminal Justice BS Geography Spatial/GIS Option BS Sociology BA/BS Political Science BS Public Administration		
UNL	Juris Doctorate Master of Legal Studies Master of Laws (LLM) Space & Telecommunication BS Fisheries & Wildlife BS Veterinary Science BS Veterinary Technologist Graduate Certificate in Food Safety and Defense PhD Integrative Biomedical Sciences		
UNMC	Public Health College/Programs	Center for Health Services Research	Professional Certificate in Emergency Preparedness Professional Certificate in Infectious Disease Epidemiology
UNO	BA/BGS Black Studies BS/BGS Criminal Justice MA/MS/PhD Criminal Justice BA/BGS Latino/Latin American Studies BA/BS/BGS/MS Political Science BGS/MPA Public Administration BGS/ME Urban Studies BA/BS Women's Studies		

Future Workforce Opportunities and Academic Program Alignment
University of Nebraska Programs

	Academic Programs	Related Programs	Programs Under Development
Human Sciences			
Hospitality/Tourism			
UNK	BS Geography Spatial/GIS Option BS Sociology (Emphases in Community, Globalization and Diversity) BS Biology, Wildlife Emphasis BS Travel and Tourism Option, Recreation, Park and Tourism Management Comprehensive		
UNL	BS Hospitality, Restaurant, & Tourism Management		
UNO	BS Geography - Travel and Tourism BA/BGS Latino/Latin American Studies		

Industrial, Manufacturing and Engineering Systems			
Architectural/Construction			
UNK	MA Instructional Technology BS Construction Management BS Interior Design		
UNL	BS/MA/PhD Architectural Engineering BS Construction Management BS/MS Civil Engineering Master of Engineering Master of Architecture BS Science Design Bachelor of Landscape Architecture BS Architectural Engineering BS Biological Systems Engineering BS Mechanized Systems Management MS in Architectural Engineering MS in Construction		

Future Workforce Opportunities and Academic Program Alignment
University of Nebraska Programs

	Academic Programs	Related Programs	Programs Under Development
Industrial, Manufacturing and Engineering Systems			
S.T.E.M. (Science, Technology, Engineering, Math)			
UNK	BS Industrial Technology BS Chemistry BS Geography Spatial/GIS Option BS Computer Information Systems BS Applied Computer Science BS Computer Science BS/BA Mathematics BS Physics BS Biology		
UNL	BA/BS/MS/PhD Mathematics MA/PhD Statistics BA/BS/MA/PhD Biological Sciences BA/BS/MA/PhD Physics & Astronomy MS/PhD Earth and Atmospheric Sciences BA/BS/MA/PhD Chemistry BA/BS/MA/PhD Computer Science & Engineering MS Textiles, Clothing, & Design- option Textile Science PhD Human Science with a specialization Textiles, Clothing, & Design and an option Textiles Science BS Architectural Engineering BS Biological Systems Engineering BS Mechanized Systems Management		BS in Microbiology

Future Workforce Opportunities and Academic Program Alignment
University of Nebraska Programs

	Academic Programs	Related Programs	Programs Under Development
Industrial, Manufacturing and Engineering Systems			
S.T.E.M. (Science, Technology, Engineering, Math) (continued)			
UNMC	MS/PhD Biochemistry and Molecular Biology MS/PhD Genetics, Cell Biology and Anatomy MS/PhD Cellular and Integrative Physiology MS/PhD Pathology and Microbiology MS/PhD Pharmacology and Experimental Neuroscience MS/PhD Pharmaceutical Sciences MS/PhD Cancer Research MS/PhD Medical Sciences Interdepartmental Area MS/PhD Toxicology Biomedical Research Training Program Center for Staphylococcal Research in the College of Medicine	Biomedical Research Infrastructure Program (BRIN - NIH) Summer Research Fellowship Training Program Science Education Partnership (SEPA) Program - NSF Center for Lymphoma and Leukemia Research Center for Cell Signaling	
UNO	BA/BS/BGS Chemistry BS/BGS Engineering Physics BGS Environmental Studies BA/BGS General Science BA/MA Geography Graduate Certificate Geography BA/BS/BGS Geology BA/BS/BGS/MA/MAS Mathematics MAT Mathematics-Computer Science	NASA Partnership Grants Maverick Space Shuttle Digital Portfolios STEP Project (NSF Grant)	

Future Workforce Opportunities and Academic Program Alignment
University of Nebraska Programs

	Academic Programs	Related Programs	Programs Under Development
Industrial, Manufacturing and Engineering Systems			
Transportation, Distribution, Warehousing, and Logistics			
UNK	BS Industrial Distribution BS Geography Spatial/GIS Option BS/BA Mathematics		
UNL	BS Industrial Engineering MS Industrial & Management Systems Engineering MS Manufacturing Engineering PhD Industrial & Management Systems Engineering Master of Engineering- Engineering Management		
UNO	BS/BGS/MPA Aviation		

Industrial, Manufacturing and Engineering Systems			
Electronics			
UNK	BA/BS Physics BS/BA Mathematics		
UNL	BS Computer Engineering Master of Engineering BS/MS Electrical Engineering PhD Engineering with a specialization Electrical Engineering		

**Future Workforce Opportunities and Academic Program Alignment
University of Nebraska Programs**

	Academic Programs	Related Programs	Programs Under Development
Industrial, Manufacturing and Engineering Systems			
Heavy Machinery			
UNL	BS Mechanized Systems Management		

Industrial, Manufacturing and Engineering Systems			
Manufacturing/Engineering Industry			
UNL	BS Industrial Technology BS Chemistry		
UNL	MS Manufacturing Engineering PhD Industrial & Management Systems Engineering BS/MS Mechanical Engineering PhD Engineering with specialization in Mechanical Engineering BS Architectural Engineering BS Biological Systems Engineering BS Mechanized Systems Management		

Industrial, Manufacturing and Engineering Systems			
Metal Products			
UNL	BS Chemistry		
UNL	MS Manufacturing Engineering PhD Industrial & Management Systems Engineering BS/MS Mechanical Engineering PhD Engineering with specialization in Mechanical Engineering MS Engineering Mechanics PhD Engineering with a specialization Engineering Mechanics BS Mechanized Systems Management		