

UNIVERSITY OF  
**Nebraska**  
Lincoln®



# **STS TEACHING OPTION PROGRAM PACKET**

**Metropolitan Community College**

**AGRICULTURAL EDUCATION DEGREE**

with an

**INDUSTRIAL TECHNOLOGY FIELD ENDORSEMENT**

**Additional information includes:**

**STS 2+2 TEACHING OPTION**

**STS SUPPLEMENTAL ENDORSEMENT REQUIREMENTS**



# Bachelor of Science in Agricultural Education

## Associate to Bachelor's (A→B) Articulation Agreement

For more information contact:

Office of Student Services  
**Metropolitan Community College**  
Elkhorn Valley Campus (402) 289-1205  
Fort Omaha Campus (402) 457-2705  
South Omaha Campus (402) 738-4505  
Sarpy Center (402) 537-3800  
Fremont Area Center (402) 721-2507  
Applied Technology Center (402) 763-5800  
Washington County Technology Center 402-533-8400  
[www.mccneb.edu](http://www.mccneb.edu)

University of Nebraska – Lincoln  
Eric Knoll 402-472-2470  
eknoll2@unl.edu  
[www.casnr.unl.edu](http://www.casnr.unl.edu)

### Pre-Secondary Education – Skilled & Technical Sciences Endorsement (ITAS2) Associate in Applied Science - Transfer

<b>General Education Requirements</b> .....							<b>52.5-54</b>
<b>Metropolitan Community College courses</b>							<b>Qtr. Hrs.</b>
Courses required for MCC Associate degree							9
INFO	1001	Information Systems & Literacy	4.5	HMRL	1010	Human Relations Skills (ACE 2)	4.5
<b>General Education / UNL - ACE Student Learning Outcomes</b> (see following page for specific class equivalencies)							
<b>ACE Outcome 1</b>							<b>9</b>
ENGL	1010	English Composition I	4.5	ENGL	1020	English Composition II	4.5
<b>ACE Outcome 2</b>							
Met by HMRL 1010 listed above							
<b>ACE Outcome 3</b>							<b>7.5-9.0</b>
MATH	1430	Trigonometry OR	4.5	MATH	1410	Statistics	4.5
MATH	2410	Calculus I	7.5				
<b>ACE Outcome 4</b>							<b>13.5</b>
PHYS	110ABC	Principles of Physics IA, IB, IC	7.5				
<i>Select one Chemistry class from below, also completing the associated lab.</i>							
CHEM	1010	College Chemistry	6	CHEM	1212	General Chemistry - Accelerated	6
CHEM	1210&1211	General Chemistry I, parts 1 & 2	6				
<b>Choose three ACE outcomes to fulfill from ACE 5 through 9, selecting up to 13.5 quarter hour credits total. Choose classes from different categories with different prefixes. The remaining ACE requirements will be met at UNL after transfer.</b>							
<b>ACE Outcome 5</b> <i>Select one class from below</i>							<b>4.5</b>
ENGL	2450	Introduction to Literature	4.5	HIST	1020	United States History from 1865 to Present	4.5
HIST	1010	United States History to 1877	4.5	PHIL	1010	Introduction to Philosophy *	4.5
<b>ACE Outcome 6</b> <i>Select one class from below</i>							<b>4.5</b>
ECON	1000	Macroeconomics *	4.5	ECON	1100	Microeconomics *	4.5
<b>ACE Outcome 7</b> <i>Select one class from below</i>							<b>4.5</b>
MUSC	1010	Introduction to Music OR	4.5	THEA	1000	Introduction to the Theatre	4.5
MUSC	1050	Music Appreciation	4.5				
<b>ACE Outcome 8</b> <i>Select one class from below</i>							<b>4.5</b>
ECON	1000	Macroeconomics (or ACE 6) *	4.5	PHIL	1010	Introduction to Philosophy (or ACE 5) *	4.5
ECON	1100	Microeconomics (or ACE 6) *	4.5	POLS	2050	American National Government	4.5
<b>ACE Outcome 9</b>							<b>4.5</b>
SOCI	2060	Multicultural Issues	4.5				
<b>ACE Outcome 10</b> <i>Class must be taken at UNL</i>							
<b>Industrial Technology Endorsement Program</b> .....							<b>48</b>
<b>Architecture and Construction</b>						<b>Select 12 or more Qtr. Hrs.</b>	
CNST	1000	Introduction to Building Construction					3.5
CNST	1010	Print Reading II Residential/Light Commercial					3.5
CNST	1050	Introduction to Carpentry					3.5
CNST	1262	Introduction to Cabinet Design, Manufacturing and Assembly					9
<b>Manufacturing</b>						<b>Select 12 or more Qtr. Hrs.</b>	
WELD	1000	Print Reading for Welders					3
WELD	1100	Industrial Cutting Process					3
WELD	1200	GMAW (MIG) Steel 1					3
WELD	1300	Oxyacetylene Welding (OAW)					3
WELD	1500	SMAW Stick Flat					3
WELD	1510	SMAW (Stick) Vertical					3
PRMA	1401	Machine Tool I					9
<b>STEM – Science, Technology, Engineering and Mathematics</b>						<b>Select 12 or more Qtr. Hrs.</b>	
DRAF	1300	Inventor Fundamentals					9
ARCH	1100	Beginning AutoCAD					4.5
ARCH	1110	Intermediate AutoCAD					4.5
<b>OR – “Project Lead The Way” - Courses available as a special program through UNL</b>							
PLTW	2900	ALEC 105 Industrial Engineering Design and ALEC 115 Principles of Engineering					12
<b>TDL – Transportation, Distribution and Logistics</b>						<b>Select 12 or more Qtr. Hrs.</b>	
INCT	1304	Small Engine Repair					4.5
INFO	1006	Basic Electronics					9
AUTT	1010	Introduction to Auto Service and Minor Repair					3
<b>Total Required Quarter Hours</b> .....							<b>100.5-102</b>

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ACE Student Learning Outcomes Course Equivalencies									
Metropolitan Community College					Qtr. Hrs.	UNL			Sem. Hrs.
<b>ACE Outcome 1</b>									
ENGL	1010	English Composition I	4.5	ENGL	150	Writing: Rhetoric			3
ENGL	1020	English Composition II	4.5	ENGL	151	Rhetoric As Argument			3
<b>ACE Outcome 2</b>									
HMRL	1010	Human Relations Skills	4.5	ALEC	102	Interpersonal Skills for Leadership			3
<b>ACE Outcome 3</b>									
MATH	1430	Trigonometry <b>AND</b>	4.5	MATH	102	Trigonometry			2
MATH	1410	Statistics <b>OR</b>	4.5	STAT	218	Introduction to Statistics			3
MATH	2410	Calculus I	7.5	MATH	106	Calculus I			5
<b>ACE Outcome 4</b>									
PHYS	110ABC	Principles of Physics IA, IB, IC	7.5	PHYS	141	Elements of General Physics I			5
<i>Select one Chemistry class from below</i>									
CHEM	1010	College Chemistry <b>OR</b>	6	CHEM	109	General Chemistry I			4
CHEM	1210&1211	General Chemistry I, parts 1 & 2 <b>OR</b>	6						
CHEM	1212	General Chemistry - Accelerated	6						
<b>ACE Outcome 5</b> <i>Select one class from below</i>									
ENGL	2450	Introduction to Literature	4.5	ENGL	180	Introduction to Literature			3
HIST	1010	United States History to 1877	4.5	HIST	110	America to 1877			3
HIST	1020	US History – 1865 to Present	4.5	HIST	111	America after 1877			3
PHIL	1010	Introduction to Philosophy	4.5	PHIL	101	Introduction to Philosophy *			3
<b>ACE Outcome 6</b> <i>Select one class from below</i>									
ECON	1000	Macroeconomics *	4.5	ECON	211	Principles of Macroeconomics			3
ECON	1100	Microeconomics *	4.5	ECON	212	Principles of Microeconomics			3
<b>ACE Outcome 7</b> <i>Select one class from below</i>									
MUSC	1010	Introduction to Music <b>OR</b>	4.5	MUNM	276G	The Music Experience			3
MUSC	1050	Music Appreciation	4.5						
THEA	1000	Introduction to the Theatre	4.5	THEA	112G	Introduction to Theatre			3
<b>ACE Outcome 8</b> <i>Select one class from below</i>									
ECON	1000	Macroeconomics (or ACE 6) *	4.5	ECON	211	Principles of Macroeconomics			3
ECON	1100	Microeconomics (or ACE 6) *	4.5	ECON	212	Principles of Microeconomics			3
PHIL	1010	Introduction to Philosophy (or ACE 5)*	4.5	PHIL	101	Introduction to Philosophy			3
POLS	2050	American National Government	4.5	POLS	100	Power and Politics in America			3
<b>ACE Outcome 9</b> <i>Select one class from below</i>									
SOCI	2060	Multicultural Issues	4.5	SOCI	2XX	Will be substituted for SOCI 217 at UNL			3
<b>ACE Outcome 10</b> <i>Class must be taken at UNL</i>									
<b>Courses required for MCC Associate degree</b>									
INFO	1001	Information Systems & Literacy	4.5	Elective credit					



2015-2016

**Associate of Applied Science Degree - ITAS2**

Skilled and Technical Science Teaching Option

Associate to Bachelor (Associate of Applied Science) Transfer to UNL College of Agricultural Leadership, Education and Communication (ALEC) Secondary Skilled & Technical Science Education. A course may be used to satisfy only one graduation requirement. A total of at least 100 quarter hours required for graduation from Metropolitan Community College with an Associate of Applied Science degree in the Academic Transfer Programs.

**General Education Requirements**

52.5-54 Quarter Credits

**A. Communications** (9.0 Qtr. Hrs.)

ACE I

English Composition I	ENGL 1010	4.5	
English Composition II	ENGL 1020	4.5	

**B. MCC General Education Requirements for Associate degree** (9.0 Qtr. Hrs.)

ACE 2

Information Systems & Literacy	INFO 1001	4.5	
Human Relations Skills	HMRL 1010	4.5	

**C. Quantitative/Numeracy Skills** (7.5-9.0 Qtr. Hrs.)

ACE 3

Trigonometry	MATH 1430	4.5	
Statistics	MATH 1410	4.5	

Or

Calculus I	MATH 2410	7.5	
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**D. Natural Science with Lab** (13.5 Qtr. Hrs.)

ACE 4

Principles of Physics 1A, 1B, 1C	PHYS 110 ABC	7.5	
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(select one)

College Chemistry	CHEM 1010 1010L	6.0	
General Chemistry 1, PARTS 1 & 2	CHEM 1210, 1210 L, 1211, 1211 L	6.0	

Or

General Chemistry - Accelerated	CHEM 1212, 1212 L	6.0	
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**E. Humanities / Social Science**

Choose three (3) ACE outcomes to fulfill from ACE 5-9, selecting up to **13.5** Quarter Hours total. Choose from different categories with different prefixes. The remaining ACE requirements will be met at UNL after transfer.

ACE 5

Introduction to Literature	ENGL 2450	4.5	
US History to 1877	HIST 1010	4.5	
US History from 1865 to Present	HIST 1020	4.5	

Introduction to Philosophy* (or ACE 8)	PHIL 1010	4.5	
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#### ACE 6

Macroeconomics* (or ACE 8)	ECON 1000	4.5	
Microeconomics* (or ACE 8)	ECON 1100	4.5	

#### ACE 7

Introduction to Music	MUSC 1010	4.5	
Music Appreciation	MUSC 1050	4.5	
Introduction to Theatre	THEA 1000	4.5	

#### ACE 8

Macroeconomics* (or ACE 6)	ECON 1000	4.5	
Microeconomics* (or ACE 6)	ECON 1100	4.5	
Introduction to Philosophy* (or ACE 5)	PHIL 1010	4.5	
American National Government	POLS 2050	4.5	

#### ACE 9

Multicultural Issues	SOCI 2060	4.5	
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Print Reading for Welders	WELD 1000	3.0	
Industrial Cutting Process	WELD 1100	3.0	
GMAW (MIG) Steel 1	WELD 1200	3.0	
Oxyacetylene Welding (OAW)	WELD 1300	3.0	
SMAW (Stick) Flat	WELD 1500	3.0	
SMAW (Stick) Vertical	WELD 1510	3.0	

### H. STEM – Science, Technology, Engineering and Mathematics

(Select 12 or more Qtr. Hours)

Inventor Fundamentals	DRAF 1300	9.0	
Beginning AutoCAD	ARCH 1100	4.5	
Intermediate AutoCAD	ARCH 1110	4.5	

Or

<b>Project Lead the Way*</b> ALEC 105 Industrial Engineering Design and ALEC 115 Principles of Engineering	PLTW 2900	12.0	
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\*Course available as a special summer program through UNL

## Industrial Technology Endorsement Program 48 Quarter Credits

### F. Architecture and Construction

(Select 12 or more Qtr. Hours)

Introduction to Cabinet Design, Manufacturing & Assembly	CNST 1262	9.0	
Introduction to Building Construction	CNST 1000	3.5	
Introduction to Carpentry	CNST 1050	3.5	
Print Reading II Residential/Light Commercial	CNST 1010	3.5	

### G. Manufacturing

(Select 12 or more Qtr. Hours)

Machine Tool I	PRMA 1401	9.0	
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### I. TDL – Transportation, Distribution & Logistics

(Select 12 or more Qtr. Hours)

Basic Electronics	INFO 1006	9.0	
Small Engine Repair	INCT 1304	4.5	
Introduction to Auto Service & Minor Repair	AUTT 1010	3.0	

A maximum of 90 quarter hours will transfer to UNL. Students will need to take ACE 5, ACE 7, ACE 8 with UNL and Reverse Transfer the classes for the degree.

## Skilled and Technical Sciences Option 4-Year Plan

### *Year 3—Semester 5, Fall*

ALEC 135A—Introduction to STS Education	1 cr.
ALEC 308—Laboratory Instruction and Management	3 cr.
EDPS 209—Strategies for Academic Success	3 cr.
ALEC 494—Seminar in Agriculture/STS Instruction	1 cr.
ACE 5, 6, 7, or 8 as needed	3 cr.
Elective course	6 cr.
<b>Total Credits</b>	<b>17 cr.</b>

Students must pass the Praxis Core exam before completion of ALEC 494.  
It is recommended that the Praxis be passed prior to a student's junior year.

### *Year 3—Semester 6, Spring*

ALEC 235—STS Technical Skill/SkillsUSA	3 cr.
ALEC 405/405L—Teaching Methods and Methods Lab	4 cr.
ALEC 413—Program Planning	3 cr.
EDPS 457—Learning and Motivation Principles	3 cr.
Elective course	3 cr.
<b>Total Credits</b>	<b>16 cr.</b>

### *Year 4—Semester 7, Fall*

SPED 401B—Accommodating Exceptional Learners	3 cr.
TEAC 259—Instructional Technology	3 cr.
ACE 5, 6, 7, or 8	3 cr.
ACE 5, 6, 7, or 8	3 cr.
Elective course	3 cr.
<b>Total Credits</b>	<b>15 cr.</b>

### *Year 4—Semester 8, Spring*

ALEC 421 (ACE 10)—Student Teaching	12 cr.
<b>Total Credits</b>	<b>12 cr.</b>

## Notes

The above plan is a 2+2 program for students interested in obtaining certification in Skilled and Technical Sciences (STS). This certification will allow an individual to teach Skilled and Technical Sciences in a Nebraska secondary school (grades 6-12). Completion of the 60 credit hour requirement in the Skilled and Technical Sciences 2 + 2 Teaching Option at UNL, along with the completion of an associate of applied science within a post-secondary institution with a 2 + 2 agreement, will allow a student to complete a BS degree in agricultural education with the Industrial Technology field endorsement from UNL.

The program is an agreement between the College of Agricultural Sciences and Natural Resources (CASNR) and community college systems in Nebraska. The 2+2 program requires a student to complete the first two years at a community college and earn an associate of applied science degree before transferring to the University of Nebraska–Lincoln (UNL).

Please see: <http://bulletin.unl.edu/undergraduate/major/Agricultural+Education> for more information.

The Skilled and Technical Sciences Supplemental endorsement can be added to a student's teaching certificate if the student successfully completes ALEC 235 + 1000 work hours + 12 semester hours in a specific skill concentration. Please check with your UNL advisor for additional information.

## NEBRASKA DEPARTMENT OF EDUCATION COMPETENCY REQUIREMENT

The Nebraska State Department of Education requires a competency examination for all applications for admission to a teacher education program and a teaching certificate. Students need documentation of proficiency in reading, writing, and mathematics. Successful completion of the **PRAXIS I TEST “Core Academic Skills for Educators” (CORE)** will meet this requirement.

Register online at: [www.ets.org/praxis](http://www.ets.org/praxis)

<b>FORMAT</b>	<b>Praxis I: Core Academic Skills for Educators (CORE)</b> <b>Computer Format</b>
<b>TEST CODES</b>	5712—Reading (2 hour) 5732—Math (2 hour) 5722—Writing (2.5 hour) 5751—Combined (reading, math & writing)
<b>SOCIAL SECURITY NUMBER</b>	PRAXIS says Social Security Number is optional Nebraska Department <b>REQUIRES IT! BE SURE TO LIST YOUR SS NUMBER</b>
<b>CERTIFYING STATE</b>	Certifying State—Nebraska State Agency—Nebraska Department of Education
<b>INSTITUTION CODE</b>	6877—University of Nebraska-Lincoln (Attending Institution) <b><i>*it's important that score reports be sent to all the above locations</i></b>
<b>SCORES</b>	156—Reading 162—Writing 150—Math Range (100-200)
<b>COST TO TAKE</b>	<b>\$150 all 3 tests taken same day</b> \$90 for 1 test (retake)
<b>TESTING DATES</b>	By appointment Monday—Saturday (continuous testing dates) Can be taken once every 30 days)
<b>LOCAL TESTING PLACE</b>	<b>Prometric Testing</b> (formerly: Sylvan Learning Center) 5715 S. 34 <sup>th</sup> Street Ste 300 Lincoln, NE
<b>HOW TO REGISTER</b>	Register online at: <a href="http://www.ets.org/praxis">www.ets.org/praxis</a>  Prometric/Sylvan at Lincoln: 402-261-4778 #1 Prometric at Omaha: 402-614-4343 Prometric at Kearney: 308-865-8054 All Centers: 800-853-6773
<b>RESULTS</b>	Score reports available 3-4 weeks after test date for 1 year online by creating a “my praxis account” at <a href="http://www.ets.org">www.ets.org</a> . It is recommended you download or print your report for your records.

CORE practice test books are available to check out for **2 weeks**; from Filley 232.

If you are delaying applying to a Professional Education program based on the cost of the CORE exam, please contact Eric Knoll.