

College of Agricultural Science and Natural Resources APPENDIX 2
Bachelor of Science Degree in Agribusiness or Agricultural Economics - General Option
Central Community College Associate of Science Program



UNL			Central Community College		
Course No.	Course Title	Required Credits	Course No.	Course Title	Required Credits
ACE Student Learning Outcomes - Except where noted, choose one course from each ACE Outcome.					
Ace Outcome 1 - Complete both courses			6	Group A: Communications	6
ENGL 150	Writing: Rhetoric	3	ENGL 1010	English Composition	3
ENGL 151	Rhetoric As Argument	3	ENGL 1020	Writing and Research	3
ACE Outcome 2			3	Group A: Communications	3
COMM 209	Public Speaking	3	SPCH 1110	Public Speaking	3
COMM 109	Fundamentals of Human Communication	3	SPCH 1400	Oral Communication	3
ACE Outcome 3 - Select one course each from Statistics and Math			6-8	Group B: Critical Thinking and Problem Solving-Mathematics	6-8
STAT 218	Introduction to Statistics	3	MATH 2020	Applied Statistics	3
ECON 215	Statistics	3	BSAD 2020	Business Statistics	3
MATH 104	Applied Calculus	3	MATH 2040	Applied Calculus	3
MATH 106	Calculus I	5	MATH 2060	Analytic Geometry/Calculus I	5
ACE Outcome 4			8-9	Group B: Critical Thinking and Problem Solving-Science	8-9
Select one course from this area:					
BIOS 101/101L	General Biology	4	BIOS 1010	General Biology	4
Select one course from this area:					
CHEM 105	Chemistry in Context I	4	CHEM 1050	Elements of Chemistry	4
CHEM 109	General Chemistry I	4	CHEM 1090	General Chemistry I	4
PHYS 141	Elements of General Physics I	5	PHYS 1410	General Physics I	5
			18		18
ACE Outcome 5			3	Group C: Life and Career Skills	3
PHIL 220	Elements of Ethics	3	PHIL 2650	Introduction to Ethics	3
ACE Outcome 6 - Both courses required			6	Group E: Global Awareness	6
AECN 141	Introduction to the Economics of Agriculture	3	AGRI 1410	Agricultural Economics	3
ECON 211	Principles of Macroeconomics	3	ECON 2110	Principles of Macroeconomics	3
ACE Outcome 7 - Select one course			3	Elective Course	3
MUNM 276G	The Music Experience	3	MUSC 1010	Introduction to Music	3
THEA 112G	Introduction to Theatre	3	THEA 1010	Introduction to Theater	3
ACE Outcome 8 - Select one course			3	Elective Course	3
PHIL 101	Intro to Philosophy	3	PHIL 1010	Introduction to Philosophy	3
POLS 100	Power and Politics In America	3	POLS 1000	American Government	3
POLS 221	Politics State & Local Government	3	POLS 2210	Politics in State & Local Government	3
ACE Outcome 9 - Select one course			3	Elective Course	3
GEOG 140	Introduction to Human Geography	3	GEOG 1400	Cultural Geography	3
HIST 120	World History to 1500	3	HIST 1700	World Civilizations to 1500	3
HIST 121	World History since 1500	3	HIST 1710	World Civilizations after 1500	3
RELG 108	World Religions	3	PHIL 2610	Comparative Religions	3
POLS 160	International Relations	3	POLS 1600	International Relations	3
SOCI 201	Social Problems	3	SOCI 2010	Social Problems	3
SOCI 217	Nationality and Race Relations	3	SOCI 2150	Issues of Unity and Diversity	3
SOCI 225	Marriage & Family	3	SOCI 2160	Marriage & Family	3
Outcome 10 - Must be taken at UNL					
Free Elective			3	Group D: Information & Technology Literacy	3
AGRI 271	An Introduction in Computer Applications in Agriculture	3	INFO 1120	Microcomputer Applications	3
Agricultural Sciences and Supporting Courses:			14-15	Elective Course	14-15
AECN 201	Farm and Ranch Management	4	AGRI 2010	Farm Management	4
AECN 256	Legal Aspects in Agriculture	3	AGRI 2560	Legal Aspects of Agriculture	3
AGRO 153	Soil Resources	4	AGRI 1530	Soil Science	4
ACCT 201	Intro to Accounting I	3	ACCT 1200	Principles of Accounting I	3
ACCT 202	Intro to Accounting II	3	ACCT 1210	Principles of Accounting II	3
Total Hrs. Applied Toward BS Degree at UNL			60	Total Hrs. for AS Degree	60

Updated 2/15

College of Agricultural Science and Natural Resources
Bachelor of Science Degree in Agricultural Education-Skilled and Technical Sciences Option
Central Community College Associate of Science Program

APPENDIX 1



UNL			Central Community College		
Course No.	Course Title	Required Credits	Course No.	Course Title	Required Credits
ACE Student Learning Outcomes - Except where noted, choose one course from each ACE Outcome.					
Ace Outcome 1			6		6
ENGL 150	Writing: Rhetoric AND	3	ENGL 1010	English Composition AND	3
ENGL 151	Rhetoric As Argument OR	3	ENGL 1020	Writing and Research OR	3
JGEN 120	Basic Business Communication	3	BSAD 1230	Business Communications	3
Ace Outcome 2 - Select one course			3		3
COMM 209	Public Speaking	3	SPCH 1110	Public Speaking	3
COMM 109	Fundamentals of Human Communication	3	SPCH 1400	Oral Communication	3
Ace Outcome 3 - CASNR requires 5 credits beyond College Algebra - select one of the two series			5-8		5-8
STAT 218	Introduction to Statistics AND	3	MATH 2020	Applied Statistics AND	3
MATH 102	Trigonometry OR	2/1 NDAP	MATH 1380	Trigonometry OR	3
MATH 103	College Algebra & Trigonometry (2 credits apply as MATH 102, 3 credits free electives)	5	MATH 1410	Pre-Calculus OR	5
MATH 104	Applied Calculus	3	MATH 2040	Applied Calculus	3
MATH 106	Calculus I	5	MATH 2060	Analytic Geometry & Calculus I	5
Ace Outcome 4 - Select one course from either the Biology, Chemistry or Physics area			4-5		4-5
BIOS 101/101L	General Biology	4	BIOS 1010	General Biology	4
CHEM 105	Chemistry in Context I	4	CHEM 1050	Elements of Chemistry	4
CHEM 109	General Chemistry I	4	CHEM 1090	General Chemistry I	4
PHYS 141	Elements of General Physics I	5	PHYS 1410	General Physics I	5
Ace Outcome 5, 7 or 8 (Please see CCC advisor for numerous offerings)			3		3
Ace Outcome 6			3		3
ECON 211	Principles of Macroeconomics OR	3	ECON 2110	Principles of Macroeconomics OR	3
ECON 212	Principles of Microeconomics	3	ECON 2120	Principles of Microeconomics	3
Ace Outcome 9			3		3
SOCI 217	Nationality and Race Relations	3	SOCI 2150	Issues of Unity and Diversity	3
Outcome 10 - Must be taken at UNL					
Please select 9 hours from each of the four areas below:					
Architecture and Construction:					9
CNST 1500	Floor, Wall, & Ceiling Framing	3	DSGN 1010	Fundamentals of Design	3
CNST 1560	Exterior Wall & Roof Coverings	2	DSGN 1020	CAD Fundamentals	3
CNST 2510	Cabinet Construction I	2			
Manufacturing:					9
AMDT 1020	Manual Lathe	3	INDT 1120	Concepts of Electronics II	3
AMDT 1040	Manual Mill	3	INDT 1180	Fundamentals of Mechanical Systems	3
AMDT 1060	Heat Treating and Metallurgy/Grinding	3	WELD 1300	Oxyacetylene Welding I	3
AMDT 1200	CNC Lathe Operations	3	WELD 1440	Gas Metal Arc Welding I	3
AMDT 1220	CNC Mill Operations	3	WELD 1460	Gas Metal Arc Welding II	2
INDT 1100	Concepts of Electronics I	3			
Science, Technology, Engineering and Mathematics:					9
ENGR 1010	Introduction to Engineering Design	3	DSGN 1020	CAD Fundamentals	3
DSGN 1010	Fundamentals of Design	3	ELEC 1240	Electrical Theory	3
The following 2 courses can be an option for SCC students to take during the summer training institutes and reverse the credit back to CCC. Both classes are taught by UNL and will be given UNL credit.					
ALEC 397	POE, Principles of Engineering	5	ALEC 397	IED, Introduction to Engineering	4
Transportation:					9
AUTO 1000	Basic Shop Practices	2	AUTO 1200	Manual Transmissions & Clutches	2
AUTO 1100	Automotive Electrical Systems I	3	AUTO 1720	Basic Engine Performance	2
(60 Semester Hours will transfer to UNL)					Total Semester Hours 63-68

College of Agricultural Science and Natural Resources APPENDIX 4
Bachelor of Science Degree in Agricultural Education-Teaching Option
Central Community College Associate of Science Program



UNL			Central Community College		
Course No.	Course Title	Required Credits	Course No.	Course Title	Required Credits
ACE Student Learning Outcomes - Except where noted, choose one course from each ACE Outcome.					
ACE Outcome 1 - Complete both courses			6	Group A: Communications	6
ENGL 150	Writing: Rhetoric	3	ENGL 1010	English Composition	3
ENGL 151	Rhetoric As Argument	3	ENGL 1020	Writing and Research	3
ACE Outcome 2			3	Group A: Communications	3
COMM 209	Public Speaking	3	SPCH 1110	Public Speaking	3
ACE Outcome 3 - All courses below are program requirements			5	Group B: Critical Thinking and Problem Solving-Mathematics	6
STAT 218	Introduction to Statistics	3	MATH 2020	Applied Statistics	3
MATH 102	Trigonometry	2/1 NDAP	MATH 1380	Trigonometry	3
ACE Outcome 4 - Select one course from each area			13	Group B: Critical Thinking and Problem Solving-Science	13
BIOS 101/101L	General Biology	4	BIOS 1010	General Biology	4
BIOS 109	General Botany	4	BIOS 1090	General Botany	4
BIOS 112/112L	Introduction to Zoology and Intro to Zoology Lab	4	BIOS 1120	Principles of Zoology	4
CHEM 105	Chemistry in Context I	4	CHEM 1050	Elements of Chemistry	4
CHEM 109	General Chemistry I	4	CHEM 1090	General Chemistry I	4
PHYS 141	Elements of General Physics I	5	PHYS 1410	General Physics I	5
ACE Outcome 5			3	Group C: Life and Career Skills	3
PHIL 220	Elements of Ethics	3	PHIL 2650	Introduction to Ethics	3
ACE Outcome 6			3	Group E: Global Awareness	3
AECN 141	Introduction to the Economics of Agriculture	3	AGRI 1410	Agricultural Economics	3
ACE Outcome 7			3	Elective Course	3
MUNM 276G	The Music Experience	3	MUSC 1010	Introduction to Music	3
THEA 112G	Introduction to Theatre	3	THEA 1010	Introduction to Theater	3
ACE Outcome 8			3	Elective Course	3
ECON 211	Principles of Macroeconomics	3	ECON 2110	Principles of Macroeconomics	3
ECON 212	Principles of Microeconomics	3	ECON 2120	Principles of Microeconomics	3
PHIL 101	Intro to Philosophy	3	PHIL 1010	Introduction to Philosophy	3
POLS 100	Power and Politics In America	3	POLS 1000	American Government	3
ACE Outcome 9			3	Group E: Global Awareness	3
SOCI 217	Nationality and Race Relations	3	SOCI 2150	Issues of Unity and Diversity	3
Outcome 10 - Must be taken at UNL					
Free Electives			3	Group D: Information and Technology	3
AGRI 271	An Introduction in Computer Applications in Agriculture	3	INFO 1120	Microcomputer Applications	3
Agricultural Sciences:			14	Elective Courses (select at least 14 credits)	14
AECN 201	Farm and Ranch Management	4	AGRI 2010	Farm Management	4
AGRO 131/132	Plant Science and Plant Science Lab	4	AGRI 1310/1350	Plant Science and Plant Science Lab	4
AGRO 153	Soil Resources	4	AGRI 1530	Soil Science	4
ALEC 134	Agricultural Leadership, Education and Communication Careers	2/1 Free elective	EDUC 1110	Introduction to Professional Education	3
ALEC 135	Early Field Experience in Agricultural Leadership, Education and Communication	1/1 Free elective	EDUC 1700	Professional Practicum	2
ASCI 100	Fundamentals of Animal Biology and Industry	4	AGRI 1700	Animal Science	4
Will substitute for the Mechanized Systems Endorsement Requirement		4	AUTO 1540/1550	Small Engines I and II	4
Will substitute for the Mechanized Systems Endorsement Requirement		3	WELD 1300	Oxyacetylene Welding I	3
Will substitute for the Mechanized Systems Endorsement Requirement		5	WELD 1440/1450	Gas Metal Arc Basics and Gas Metal Arc Welding I	5
Will substitute for the Mechanized Systems Endorsement Requirement		4	WELD 1470/1480	Shield Metal Arc Welding I and II	4
Will substitute for the Mechanized Systems Endorsement Requirement		5	WELD 1500/1510	Gas Tungsten Arc Welding I and II	5
Total Hrs. Applied Toward BS Degree at UNL			59	Total Hrs. for AS Degree	60

Updated 2/15

College of Agricultural Science and Natural Resources APPENDIX 1
Bachelor of Science Degree Major to be Declared
Central Community College Associate of Science Program



UNL			Central Community College				
Course No.	Course Title	Required Credits		Course No.	Course Title	Required Credits	
ACE Student Learning Outcomes - Except where noted, choose one course from each ACE Outcome.							
Ace Outcome 1 - Complete both courses			6	Group A: Communications			6
ENGL 150	Writing: Rhetoric	3		ENGL 1010	English Composition	3	
ENGL 151	Rhetoric As Argument	3		ENGL 1020	Writing and Research	3	
ACE Outcome 2			3	Group A: Communications			3
COMM 209	Public Speaking	3		SPCH 1110	Public Speaking	3	
COMM 109	Fundamentals of Human Communication	3		SPCH 1400	Oral Communication	3	
ACE Outcome 3 - Students should work with CCC Academic Adviser when selecting courses.							
			5-6	Group B: Critical Thinking and Problem Solving-Mathematics			5-6
STAT 218	Introduction to Statistics AND	3		MATH 2020	Applied Statistics AND	3	
MATH 102	Trigonometry OR	2/1NDAP		MATH 1380	Trigonometry OR	3	
MATH 104	Applied Calculus	3		MATH 2040	Applied Calculus	3	
MATH 106	Calculus I	5		MATH 2060	Analytic Geometry/Calculus I	5	
ACE Outcome 4 - Select two courses from any of the three areas. Students should work with CCC Academic Adviser when selecting courses.							
			8-9	Group B: Critical Thinking and Problem Solving-Science			8-9
BIOS 101/101L	General Biology	4		BIOS 1010	General Biology	4	
BIOS 109	General Botany	4		BIOS 1090	General Botany	4	
BIOS 112/112L	Introduction to Zoology and Intro to Zoology Lab	4		BIOS 1120	Principles of Zoology	4	
CHEM 105	Chemistry in Context I	4		CHEM 1050	Elements of Chemistry	4	
CHEM 109	General Chemistry I	4		CHEM 1090	General Chemistry I	4	
PHYS 141	Elements of General Physics I	5		PHYS 1410	General Physics I	5	
			15				15
ACE Outcome 5			3	Group C: Life and Career Skills			3
PHIL 220	Elements of Ethics	3		PHIL 2650	Introduction to Ethics	3	
ACE Outcome 6			3	Group E: Global Awareness			3
AECN 141	Introduction to the Economics of Agricuture	3		AGRI 1410	Agricultural Economics	3	
ACE Outcome 7			3	Group E: Global Awareness			3
MUNM 276G	The Music Experience	3		MUSC 1010	Introduction to Music	3	
THEA 112G	Introduction to Theatre	3		THEA 1010	Introduction to Theater	3	
ACE Outcome 8			3	Elective Course			3
ECON 211	Principles of Macroeconomics	3		ECON 2110	Principles of Macroeconomics	3	
ECON 212	Principles of Microeconomics	3		ECON 2120	Principles of Microeconomics	3	
PHIL 101	Intro to Philosophy	3		PHIL 1010	Introduction to Philosophy	3	
POLS 100	Power and Politics In America	3		POLS 1000	American Government	3	
ACE Outcome 9			3	Elective Course			3
GEOG 140	Introduction to Human Geography	3		GEOG 1400	Cultural Geography	3	
HIST 120	World History to 1500	3		HIST 1700	World Civilizations to 1500	3	
HIST 121	World History since 1500	3		HIST 1710	World Civilizations after 1500	3	
RELG 108	World Religions	3		PHIL 2610	Comparative Religions	3	
POLS 160	International Relations	3		POLS 1600	International Relations	3	
SOCI 201	Social Problems	3		SOCI 2010	Social Problems	3	
SOCI 217	Nationality and Race Relations	3		SOCI 2150	Issues of Unity and Diversity	3	
Outcome 10 - Must be taken at UNL							
Free Elective			3	Group D: Information & Technology Literacy			3
Students should work with CCC Academic Adviser when selecting elective courses.							
Agricultural Sciences:			8-10	Elective Course			8-10
AECN 201	Farm and Ranch Management	4		AGRI 2010	Farm Management	4	
AECN 256	Legal Aspects in Agriculture	3		AGRI 2560	Legal Aspects of Agriculture	3	
AGRO 131/132	Plant Science and Plant Science Lab	4		AGRI 1310/1350	Plant Science and Plant Science Lab	4	
AGRO 153	Soil Resources	4		AGRI 1530	Soil Science	4	
ASCI 100	Fundamentals of Animal Biology and Industry	4		AGRI 1700	Animal Science	4	
Total Hrs. Applied Toward BS/BA Degree at UNL			60	Total Hrs. for AS Degree			60

College of Agricultural Science and Natural Resources APPENDIX 9
 Bachelor of Science Degree in Animal Science - Food Animal Production and Management Option
 Central Community College Associate of Science Program



UNL			Central Community College		
Course No.	Course Title	Required Credits	Course No.	Course Title	Required Credits
ACE Student Learning Outcomes - Except where noted, choose one course from each ACE Outcome.					
Ace Outcome 1 - Complete both courses			6	Group A: Communications	6
ENGL 150	Writing: Rhetoric	3	ENGL 1010	English Composition	3
ENGL 151	Rhetoric As Argument	3	ENGL 1020	Writing and Research	3
ACE Outcome 2			3	Group A: Communications	3
COMM 209	Public Speaking	3	SPCH 1110	Public Speaking	3
COMM 109	Fundamentals of Human Communication	3	SPCH 1400	Oral Communication	3
ACE Outcome 3 - All courses below are program requirements			5	Group B: Critical Thinking and Problem Solving-Mathematics	5-6
STAT 218	Introduction to Statistics AND	3	MATH 2020	Applied Statistics AND	3
MATH 102	Trigonometry OR	2/1 NDAP	MATH 1380	Trigonometry OR	3
MATH 106	Calculus I	5	MATH 2060	Analytic Geometry/Calculus I	5
ACE Outcome 4			21	Group B: Critical Thinking and Problem Solving-Science and Elective Courses	21
BIOS 101/101L	General Biology and Lab	4	BIOS 1010	General Biology	4
BIOS 206	General Genetics	4	BIOS 2420	Principles of Genetics	4
CHEM 105/106	Chemistry in Context I/Chemistry in Context II OR	8	CHEM 1050/1060	Elements of Chemistry/Basics of Organic Chemistry OR	8
CHEM 109/110	General Chemistry I/General Chemistry II	8	CHEM 1090/1100	General Chemistry I/General Chemistry II	8
PHYS 141	Elements of General Physics I	5	PHYS 1410	General Physics I	5
			15		15
ACE Outcome 5			3	Group C: Life and Career Skills	3
PHIL 220	Elements of Ethics	3	PHIL 2650	Introduction to Ethics	3
ACE Outcome 6			3	Group E: Global Awareness	3
AECN 141	Introduction to the Economics of Agriculture	3	AGRI 1410	Agricultural Economics	3
ACE Outcome 7			3	Group E: Global Awareness	3
MUNM 276G	The Music Experience	3	MUSC 1010	Introduction to Music	3
THEA 112G	Introduction to Theatre	3	THEA 1010	Introduction to Theater	3
ACE Outcome 8			3	Elective Course	3
ECON 211	Principles of Macroeconomics	3	ECON 2110	Principles of Macroeconomics	3
ECON 212	Principles of Microeconomics	3	ECON 2120	Principles of Microeconomics	3
PHIL 101	Intro to Philosophy	3	PHIL 1010	Introduction to Philosophy	3
POLS 100	Power and Politics In America	3	POLS 1000	American Government	3
ACE Outcome 9			3	Elective Course	3
GEOG 140	Introduction to Human Geography	3	GEOG 1400	Cultural Geography	3
HIST 120	World History to 1500	3	HIST 1700	World Civilizations to 1500	3
HIST 121	World History since 1500	3	HIST 1710	World Civilizations after 1500	3
RELG 108	World Religions	3	PHIL 2610	Comparative Religions	3
POLS 160	International Relations	3	POLS 1600	International Relations	3
SOCI 201	Social Problems	3	SOCI 2010	Social Problems	3
SOCI 217	Nationality and Race Relations	3	SOCI 2150	Issues of Unity and Diversity	3
SOCI 225	Marriage & Family	3	SOCI 2160	Marriage & Family	3
Outcome 10 - Must be taken at UNL					
Free Elective			3	Group D: Information & Technology Literacy	3
AGRI 271	An Introduction in Computer Applications in Agriculture	3	INFO 1120	Microcomputer Applications	3
Agricultural Sciences:			7	Electives (select at least 7 credit hours)	7
ASCI 100	Fundamentals of Animal Biology and Industry	4	AGRI 1700	Animal Science	4
AECN 201	Farm and Ranch Management	4	AGRI 2010	Farm Management	4
AECN 256	Legal Aspects in Agriculture	3	AGRI 2560	Legal Aspects of Agriculture	3
ASCI 2xx	Animal Science 200-level course	3	AGRI 2780	Feeds and Feeding Procedures	3
Total Hrs. Applied Toward BS Degree at UNL			60	Total Hrs. for AS Degree	60-61

College of Agricultural Science and Natural Resources APPENDIX 6
Bachelor of Science Degree in Fisheries and Wildlife-Option to be Declared
Central Community College Associate of Science Program



UNL			Central Community College		
Course No.	Course Title	Required Credits	Course No.	Course Title	Required Credits
ACE Student Learning Outcomes - Except where noted, choose one course from each ACE Outcome.					
ACE Outcome 1 - Complete both courses			6	Group A: Communications	6
ENGL 150	Writing: Rhetoric	3	ENGL 1010	English Composition	3
ENGL 151	Rhetoric As Argument	3	ENGL 1020	Writing and Research	3
ACE Outcome 2			3	Group A: Communications	3
COMM 209	Public Speaking	3	SPCH 1110	Public Speaking	3
COMM 109	Fundamentals of Human Communication	3	SPCH 1400	Oral Communication	3
ACE Outcome 3			6-8	Group B: Critical Thinking and Problem Solving-Mathematics	6-8
STAT 218	Introduction to Statistics and	3	MATH 2020	Applied Statistics and	3
MATH 104	Applied Calculus or	3	MATH 2040	Applied Calculus or	3
MATH 106	Calculus I	5	MATH 2060	Analytic Geometry & Calculus I	5
ACE Outcome 4			17	Group B: Critical Thinking and Problem Solving-Science and Elective Courses	17
BIOS 206	General Genetics	4	4 BIOS 2420	Principles of Genetics	4
CHEM 105/106	Chemistry in Context I/Chemistry in Context II OR	8	8 CHEM 1050/1060	Elements of Chemistry/Basics of Organic Chemistry OR	8
CHEM 109/110	General Chemistry I/General Chemistry II	8	CHEM 1090/1100	General Chemistry I/General Chemistry II	8
PHYS 141	Elementary General Physics I	5	5 PHYS 1410	General Physics I	5
			15		15
ACE Outcome 5			3	Group C: Life and Career Skills	3
PHIL 220	Elements of Ethics	3	PHIL 2650	Introduction to Ethics	3
ACE Outcome 6			3	Group E: Global Awareness	3
AECN 141	Introduction to the Economics of Agriculture	3	AGRI 1410	Agricultural Economics	3
ACE Outcome 7			3	Group E: Global Awareness	3
MUNM 276G	The Music Experience	3	MUSC 1010	Introduction to Music	3
THEA 112G	Introduction to Theatre	3	THEA 1010	Introduction to Theater	3
ACE Outcome 8			3	Elective Course	3
ECON 211	Principles of Macroeconomics	3	ECON 2110	Principles of Macroeconomics	3
ECON 212	Principles of Microeconomics	3	ECON 2120	Principles of Microeconomics	3
PHIL 101	Intro to Philosophy	3	PHIL 1010	Introduction to Philosophy	3
POLS 100	Power and Politics In America	3	POLS 1000	American Government	3
POLS 221	Politics State & Local Government	3	POLS 2210	Politics in State & Local Government	3
ACE Outcome 9			3	Elective Course	3
GEOG 140	Introduction to Human Geography	3	GEOG 1400	Cultural Geography	3
HIST 120	World History to 1500	3	HIST 1700	World Civilizations to 1500	3
HIST 121	World History since 1500	3	HIST 1710	World Civilizations after 1500	3
RELG 108	World Religions	3	PHIL 2610	Comparative Religions	3
POLS 160	International Relations	3	POLS 1600	International Relations	3
SOCI 201	Social Problems	3	SOCI 2010	Social Problems	3
SOCI 217	Nationality and Race Relations	3	SOCI 2150	Issues of Unity and Diversity	3
SOCI 225	Marriage & Family	3	SOCI 2160	Marriage & Family	3
Outcome 10 - Must be taken at UNL					
Free Elective			3	Group D: Information & Technology Literacy	3
AGRI 271	An Introduction in Computer Applications in Agriculture	3	INFO 1120	Microcomputer Applications	3
Agricultural Systems Courses			4	Elective Courses	4
AGRO 153	Soil Resources	4	AGRI 1530	Soil Science	4
Free Electives:			4-6	Students will need to work with their CCC Advisor for additional Elective Courses	4-6
Total Hrs. Applied Toward BS Degree at UNL			60	Total Hrs. for AS Degree	60

Updated 4/15

**College of Agricultural Science and Natural Resources
Bachelors of Science Degree in Forensic Science
Central Community College Associate of Science Program**

APPENDIX 7



UNL			Central Community College		
Course No.	Course Title	Required Credits	Course No.	Course Title	Required Credits
ACE Student Learning Outcomes - Except where noted, choose one course from each ACE Outcome.					
Ace Outcome 1			6	Group A: Communications	6
ENGL 150	Writing: Rhetoric	3	ENGL 1010	English Composition	3
ENGL 151	Rhetoric As Argument	3	ENGL 1020	Writing and Research	3
Ace Outcome 2			3	Group A: Communications	3
COMM 209	Public Speaking	3	SPCH 1110	Public Speaking	3
COMM 109	Fundamentals of Human Communication	3	SPCH 1400	Oral Communication	3
Ace Outcome 3 - All courses below are program requirements			8	Group B: Critical Thinking and Problem Solving-Mathematics	8
STAT 218	Introduction to Statistics	3	MATH 2020	Applied Statistics	3
MATH 106	Calculus I	5	MATH 2060	Analytic Geometry and Calculus I	5
Ace Outcome 4 - All courses below are program requirements			26	Group B: Critical Thinking and Problem Solving-Science and Electives	28
CHEM 109	General Chemistry I	4	CHEM 1090	General Chemistry I	4
CHEM 110	General Chemistry II	4	CHEM 1100	General Chemistry II	4
CHEM 251/253	Organic Chemistry I	4/1 NDAP	CHEM 2510	Organic Chemistry I	5
CHEM 252/254	Organic Chemistry II	4/1 NDAP	CHEM 2520	Organic Chemistry II	5
PHYS 141	Elements of General Physics I	5	PHYS 1410	General Physics I	5
PHYS 142	Elements of General Physics II	5	PHYS 1420	General Physics II	5
Select one course from ACE 5, 6, 7, & 8. Total 12 hours			12		12
Ace Outcome 5				Group C: Life and Career Skills	
PHIL 220	Elements of Ethics	3	PHIL 2650	Introduction to Ethics	3
Ace Outcome 6				Elective	
CRIM 101	Survey of Criminal Justice	3	CRIM 1010	Introduction to Criminal Justice	3
Ace Outcome 7				Group E: Global Awareness	
MUNM 276G	The Music Experience	3	MUSC 1010	Introduction to Music	3
THEA 112G	Introduction to Theatre	3	THEA 1010	Introduction to Theater	3
Ace Outcome 8				Group E: Global Awareness	
ECON 211	Principles of Macroeconomics	3	ECON 2110	Principles of Macroeconomics	3
Ace Outcome 9 - to be completed at UNL					
Outcome 10 - Must be taken at UNL					
Free Elective			3	Group D: Information and Technology	3
AGRI 271	An Introduction in Computer Applications in Agriculture	3	INFO 1120	Microcomputer Applications	3
Total Hrs. Applied Toward BS Degree at UNL			58	Total Hrs. for AS Degree	60

Updated 2/15

College of Agricultural Science and Natural Resources
Mechanized Systems Management (MYSM)
Central Community College Associate of Science Program



UNL			Central Community College			
Course No.	Course Title	Required Credits	Course No.	Course Title	CCC Credits	
ACE Student Learning Outcomes - Except where noted, choose one course from each ACE Outcome. The same course cannot be used to meet more than one ACE Outcome.						
ACE Outcome 1 - Complete both courses			6	Group A: Communications		6
ENGL 150	Writing: Rhetoric	3	ENGL 1010	English Composition	3	
ENGL 151	Rhetoric As Argument	3	ENGL 1020	Writing and Research	3	
ACE Outcome 2			3	Group A: Communications		3
COMM 209	Public Speaking	3	SPCH 1110	Public Speaking	3	
ACE Outcome 3 - Math 2020 and one other course required.			5-8	Group B: Critical Thinking and Problem Solving-Mathematics		6-8
MATH 102	Trigonometry	2/1 NDAP	MATH 1380	Trigonometry	3	
MATH 104	Applied Calculus	3	MATH 2040	Applied Calculus ⁽¹⁾	3	
MATH 106	Calculus I	5	MATH 2060	Analytic Geometry and Calculus I ⁽¹⁾	5	
STAT 218	Introduction to Statistics	3	MATH 2020	Applied Statistics	3	
ACE Outcome 4 -			21	Group B: Critical Thinking and Problem Solving-Science and Elective Courses		21
BIOS 101/101	General Biology	4	BIOS 1010	General Biology	4	
BIOS 206	General Genetics	4	BIOS2420	Principles of Genetics	4	
CHEM 109	General Chemistry I	4	CHEM 1090	General Chemistry I	4	
CHEM 110	General Chemistry II	4	CHEM 1100	General Chemistry II	4	
PHYS 141	Elements of General Physics I	5	PHYS 1410	General Physics I	5	
			15			15
ACE Outcome 5			3	Group C: Life and Career Skills		3
PHIL 220	Elements of Ethics	3	PHIL 2650	Introduction to Ethics	3	
ACE Outcome 6			3	Group E: Global Awareness		3
AECN 141	Intro to the Economics of Agriculture	3	AGRI 1410	Agricultural Economics	3	
ACE Outcome 7			3	Group E: Global Awareness		3
MUNM 276G	The Music Experience	3	MUSC 1010	Introduction to Music	3	
THEA 112G	Introduction to Theatre	3	THEA 1010	Introduction to Theater	3	
ACE Outcome 8			3	Elective Course		3
ECON 211	Principles of Macroeconomics	3	ECON 2110	Principles of Macroeconomics	3	
ACE Outcome 9			3	Elective Course		3
GEOG 140	Introduction to Human Geography	3	GEOG 1400	Cultural Geography	3	
HIST 120	World History to 1500	3	HIST 1700	World Civilizations to 1500	3	
HIST 121	World History since 1500	3	HIST 1710	World Civilizations after 1500	3	
RELG 108	World Religions	3	PHIL 2610	Comparative Religions	3	
POLS 160	International Relations	3	POLS 1600	International Relations	3	
SOCI 201	Social Problems	3	SOCI 2010	Social Problems	3	
SOCI 217	Nationality and Race Relations	3	SOCI 2150	Issues of Unity and Diversity	3	
SOCI 225	Marriage & Family	3	SOCI 2160	Marriage & Family	3	
Free Elective			3	Group D: Information & Technology Literacy		3
AGRI 271	An Introduction in Computer Applications in Agriculture	3	INFO 1120	Microcomputer Applications	3	
MECHANIZED SYSTEMS MANAGEMENT CORE:			4-7	Elective Course		4-7
SOIL 153	Introduction to Soil Resources	4	AGRI 1530	Soil Science	4	
BSEN 130	Introduction to CAD	2	DRAF 1590	Basic CAD Operations ⁽²⁾	3	
⁽¹⁾ Course is required in some degree options.						
⁽²⁾ Course equivalence not established. Computer application proficiency is required.						
Total Hrs. Applied Toward BS Degree at UNL			60	Total Hrs. for AS Degree		60-61

Updated 2/15

College of Agricultural Science and Natural Resources
Bachelor of Science Degree in Agricultural Education-Teaching Option
Chadron State College Transfer Program

APPENDIX 1

UNL			Chadron State College			
Course No.	Course Title	Required Credits	Course No.	Course Title	Required Credits	
ACE Student Learning Outcomes - Except where noted, choose one course from each ACE Outcome.						
ACE Outcome 1						3
ENGL 150	Writing and Inquiry	3	ENGL 135	Composition I	3	
ENGL 151	Writing and Argument	3	ENGL 136	Composition II	3	
ACE Outcome 2						3
COMM 109	Fundamentals of Human Communication	3	C A 125	Fundamentals of Oral Communication	3	
COMM 209	Public Speaking	3	C A 233	Presentational Speaking	3	
ACE Outcome 3 - NOTE: CASNR requires at least 5 semester credit hours beyond College Algebra. Proficiency at the college algebra level must be demonstrated either by a placement exam or through course work. If MATH 142 is taken, 4-credit hours earned will be free electives in the Bachelor of Science Degree in Agricultural Education-Teaching Option. Students selecting MATH 151 (5 credits) will fulfill the Mathematics and Statistics requirement.						5-6
MATH 106	Analytic Geometry and Calculus I	5	MATH 151	Calculus I	5	
STAT 218	Introduction to Statistics and	3	MATH 232	Applied Statistics and	3	
MATH 102	Trigonometry or	2/1 NDAP	MATH 134	Plane Trigonometry or	3	
MATH 104	Calculus for Managerial and Social Sciences	3	MATH 138	Applied Calculus	3	
ACE Outcome 4 - Select one course from each category.						13
BIOS 1XX	General Botany	4	BIOL 138 and 138L	General Botany and General Botany Lab	4	
BIOS 1XX	Introduction to Zoology	4	BIOL 139 and 139L	General Zoology and General Zoology Lab	4	
CHEM 109	General Chemistry I	4	CHEM 131 and 131L	College Chemistry I and College Chemistry I Lab	4	
PHYS 141	General Physics I and Lab	5	PHYS 241 and 241L	University Physics I and Lab	5	
Select one course from each of the following 5 areas, for a total of 15 hrs.						12
ACE Outcome 5						3
ENGL 180	Introduction to Literature	3	ENG 233	Elements of Literature	3	
HIST 110	American History to 1877	3	HIST 151	US History to 1877	3	
HIST 111	American History After 1877	3	HIST 152	US History Since 1877	3	
PHIL 101	Introduction to Philosophy	3	PHIL 231	Introduction to Philosophy	3	
ACE Outcome 6						3
PSYC 263	Introduction to Cognitive Processes	3	PSYC 234	Psychology of Cognition & Learning	3	
ACE Outcome 7						3
COMM 205	Performance of Literature	3	C A 144	Oral Interpretation/Performance Studies	3	
MUNM 276G	The Music Experience	3	MUS 235	Elements of Music	3	
THEA 112G	Introduction to Theatre	3	TH 235	Element of Theatre	3	
ACE Outcome 8						3
ECON 212	Principles of Microeconomics	3	ECON 232	Microeconomics	3	
ACE Outcome 9 - Must be taken at UNL						
ACE Outcome 10 - Must be taken at UNL						
Research and Applied Technology						3
AGRI 4XX	Agricultural Sciences 400 Level Subject Credit	3	AGRI 426	Wildlife Research & Management Techniques	3	
Policy						3
AGRI 4XX	Agricultural Sciences 400 Level Subject Credit	3	AGRI 423	Agricultural Policy	3	
Management - select from:						9
AGRI 2XX	Agricultural Sciences 200 Level Subject Credit	3	AGRI 234	Principles of Animal Nutrition		
AGRO/RNGE 240	Forage Crop and Range Management	4	AGRI 242 and 242L	Principles of Rangeland and Forage Crop Management and Lab	4	
AECN 201	Farm and Ranch Management	3/1 waived	AGRI 331	Farm and Ranch Management	3	
AGRI 3XX	Agricultural Sciences 300 Level Subject Credit	3	AGRI 334	Vegetation Manipulation Practices	3	
AGRI 4XX	Agricultural Sciences 400 Level Subject Credit	3	AGRI 447	Animal Breeding and Genetics	3	
Production - select from:						3
ASCI 100	Fundamentals of Animal Biology and Industry	3/1 waived	AGRI 132	Introduction to Animal Science	3	
AGRO 131	Plant Science	3	AGRI 141	Introduction to Plant Science	3	
AGRI 3XX	Agricultural Sciences 300 Level Subject Credit	3	AGRI 333/L	Ruminant Production and Lab	4	
AGRI 3XX	Agricultural Sciences 300 Level Subject Credit	3	AGRI 336	Non-Ruminant Production	3	
AGRI 3XX	Agricultural Sciences 300 Level Subject Credit	3	AGRI 338	Livestock Evaluation	3	
AGRI 3XX	Agricultural Sciences 300 Level Subject Credit	3	AGRI 350	Rangeland Ungulate Production	3	
Natural Resources - select from:						6
AGRO/SOIL 153	Soil Resources	4	AGRI 245 and 245L	Principles of Soil Science and Principles of Soil Science Lab	4	
AGRI 2XX	Agricultural Sciences 200 Level Subject Credit	3	AGRI 235	Introduction to Wildlife Management	3	
AGRI 3XX	Agricultural Sciences 300 Level Subject Credit	3	AGRI 325	Rangeland Wildlife Management	3	
AGRI 3XX	Agricultural Sciences 300 Level Subject Credit	3	AGRI 339/L	Rangeland Plant Identification & Lab	3	
AGRI 3XX	Agricultural Sciences 300 Level Subject Credit	3	AGRI 348	Rangeland Hydrology	3	
AGRI 4XX	Agricultural Sciences 400 Level Subject Credit	3	AGRI 436	Rangeland and Fire Ecology	3	
AGRI 4XX	Agricultural Sciences 400 Level Subject Credit	3	AGRI 444	Grass Systematics	3	
Professional Education Courses						6
ALEC 135	Introduction to Secondary Agriscience Education	3	EDUC 131	Introduction to Teaching	3	
SPED 201	Introduction to Special Education	3	SPED 230	Introduction to the Exceptional Learner	3	

APPENDIX 1

Free Electives - student needs to work with an advisor to insure proper course selection.			10
Credit hours completed at UNL	76	Credit hours completed at Chadron State College	76

Courses Needed Outside of UNL and/or Chadron State College:			
Mechanized Systems - to be taken from a local community college while in attendance at Chadron State College or UNL. Student needs to work with an advisor to insure the proper course selections.			9

Courses Remaining at UNL:						
Food Systems - select one from:						3
AECN 225	Agribusiness Entrepreneurship in Food Products Marketing	3	ASCI 210	Animal Products	3	
FDST 131	The Science of Food	3				
Leadership and Education:						14
ALEC 234	Planning Leadership & Exercise Programs	3	ALEC 308	Lab Instruction and Management	3	
ALEC 405	Teaching Methods	3	ALEC 405L	Methods Lab	1	
ALEC 413	Program Planning	3	ALEC 494	Seminar in Agriculture Education	1	
Human Relations (ACE 9) - select one from:						3
SOCI/ENTH 217	Sociology of Race & Ethnicity	3	TEAC/ETHN 330	Multicultural Education	3	
Communication and Interpersonal Skills:						3
ALEC 102	Interpersonal Skills for Leadership	3				
College Integrative Courses (ACE 10)						12
ALEC 431	Student Teaching	12				
			Total Hours Taken at UNL			35

Total Hours of Coursework Transferred from Chadron State College to UNL			76
Total Hours of Coursework Transferred from the Community College System			9
Total Hours of Coursework Taken at UNL			35
Total Hours to Earn a Bachelor of Science in Agricultural Education			120

Updated 7/17



METROPOLITAN
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UNIVERSITY OF
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Lincoln

Bachelor of Science Degree

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

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2015

Pre-Agricultural Sciences (LAGAS) Associate in Science

General Education Requirements27

Communications				Mathematics			
ENGL	1010	English Composition I (ACE 1)	4.5	MATH	1310	Intermediate Algebra	4.5
ENGL	1020	English Composition II (ACE 1)	4.5	Other			
SPCH	1110	Public Speaking (ACE 2)	4.5	HMRL	1010	Human Relations Skills (ACE 2)	4.5
				INFO	1001	Microcomputer Fundamentals	4.5

Major Requirements for Pre-Agricultural Sciences71+

Mathematics				Social Sciences (ACE 6) ^			
MATH	1410	Statistics (ACE 3)	4.5	Select 1 course (4.5)			
MATH	1420	College Algebra	5	ECON	1000	ECON	1100
MATH	1430	Trigonometry	4.5	Select 1 course (ACE 8) (4.5)			
CASNR requires 5 semester credit hours beyond College Algebra.				ECON	1000	ECON	1100
				PHIL	1030	POLS	2050
				^ ECON 1000 or ECON 1100 can only fulfill ACE 6 or 8, not both			
Arts (select 1 course) (ACE 7) (4.5)				Natural Sciences (ACE 4)			
ARTS	1110	ARTS	1120	BIOS	1010	Introduction to Biology OR	
MUSC	1050	THEA	1000	BIOS	1111	Biology I*	
Humanities (select 1 course) (ACE 5) (4.5)					1121	Biology II*	
ENGL	2450	ENGL	2530		1130	Biology III* See note below	
ENGL	2470	HIST	1010	PHYS	110A	Principles of Physics 1A	
Cultural Studies (ACE 9) (select 1 course) (4.5)					110B	Principles of Physics 1B	
ECON	2720	ENGL	2470		110C	Principles of Physics 1C	
GEOG	1050	GEOG	2150	CHEM	1210&1211	General Chemistry: Parts I & II OR	
HIST	1120	PHIL	1030	CHEM	1212	General Chemistry I: Accelerated	
SOCI	2050	SOCI	2160	CHEM	1220	General Chemistry II	
Major Related Electives Select an additional 4.5 to 10.5 credit hours from the courses listed below							
BIOS	2050	Genetics [BIOS 206]		GEOG	1150	Intro. to Physical Geography –	
BIOS	2150	Microbiology [BIOS 111]				Weather & Climate [GEOG 155]	
BIOS	2410	Plant Pathology [General Credit]		HLSM	1010	Intro. to Horticulture [General Credit]	
BIOS	2510	Applied Entomology [ENTO 303]					

Total Required Quarter Hours (90 quarter hours are degree applicable to CASNR) ...98+

NOTES

- Students must have a minimum cumulative GPA of 2.0 and a C average or higher in the last quarter of college enrollment for admission. (Grades below C can only be applied to free electives and no more than 10 credit hours of grades below C will be transferable.)
- Students pursuing the associate to bachelor agreement should work closely with MCC and UNL advisors to ensure a "seamless" transition. Contact a UNL advisor one full academic year before transferring.
- (ACE #) Course meets UNL Achievement-Centered Education (ACE) program outcome. Each course can fulfill only one ACE requirement as listed.

Agricultural Sciences and Natural Resources Degree Programs include:

Agribusiness	Agricultural Economics	Agricultural Education
Agricultural and Environmental Sciences Communication	Agronomy	Animal Science *
Applied Climate Science	Applied Science	(Biology or Veterinary Science options)
Environmental Restoration Science	Environmental Studies	Biochemistry *
Food Science and Technology *	Food Tech. for Companion Animals *	Fisheries and Wildlife *
Grassland Ecology and Management	Grazing Livestock Systems	Forensic Science *
Hospitality, Restaurant and Tourism Management	Insect Science * (Science Option)	Horticulture
Microbiology *	Integrated Science *	Mechanized Systems Management
PGA Golf Management	Natural Resource and Environmental Economics	Plant Biology *
Veterinary Technology * (Veterinary Science option)	Turfgrass and Landscape Management	Veterinary Science *
		Water Science

*Three course Biology sequence required for programs marked.

Bachelor of Science Degree

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ACE Student Learning Outcomes Course Equivalencies									
Metropolitan Community College				Qtr. Hrs.	UNL				Sem. Hrs.
ACE Outcome 1									
ENGL	1010	English Composition I	4.5	ENGL	150	Writing: Rhetoric			3
ENGL	1020	English Composition II	4.5	ENGL	101	Writing: Rhetoric and Reading			3
ACE Outcome 2									
SPCH	1110	Public Speaking	4.5	COMM	209	Public Speaking			3
ACE Outcome 3									
MATH	1430	Trigonometry	4.5	MATH	102	Trigonometry			2
MATH	1410	Statistics	4.5	STAT	218	Introduction to Statistics			3
ACE Outcome 4									
BIOS	1010	Introduction to Biology	6	BIOS	101/101L	General Biology and Lab			4
BIOS	1111, 1121 & 1130	Biology I, II, & III	15	LIFE	120/120L & 121/121L	Fundamentals of Biology I and Lab; Fundamentals of Biology II and Lab			8
PHYS	110ABC	Principles of Physics IA, IB, IC	7.5	PHYS	141	Elements of General Physics I			5
CHEM	1010	College Chemistry OR	6	CHEM	109	General Chemistry I			4
CHEM	1210&1211	General Chemistry I, parts 1 & 2 OR	6						
CHEM	1212	General Chemistry - Accelerated	6						
CHEM	1220	General Chemistry II	6						
CHEM	1220	General Chemistry II	6	CHEM	110	General Chemistry II			4
ACE Outcome 5									
ENGL	2450	Introduction to Literature	4.5	ENGL	180	Introduction to Literature			3
ENGL	2470	Intro To Women's Literature	4.5	ENGL	215	Intro to Women's Literature			3
ENGL	2530	Ethnic Literature	4.5	ENGL	244	African American Literature			3
HIST	1010	United States History I	4.5	HIST	201	America to 1877			3
HIST	1020	United States History II	4.5	HIST	202	America after 1877			3
PHIL	1010	Introduction to Philosophy	4.5	PHIL	101	Introduction to Philosophy			3
ACE Outcome 6 (ECON 1000 or ECON 1100 can only fulfill ACE 6 or 8, not both)									
ECON	1000	Macroeconomics	4.5	ECON	211	Principles of Macroeconomics			3
ECON	1100	Microeconomics	4.5	ECON	212	Principles of Microeconomics			3
ACE Outcome 7									
ARTS	1110	Art History-Ancient/Gothic	4.5	AHIS	101	Introduction to Art History and Criticism I			3
ARTS	1120	Art History-Renaissance/Modern	4.5	AHIS	102	Introduction to Art History and Criticism II			3
MUSC	1010	Introduction to Music OR	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
ACE Outcome 8 (ECON 1000 or ECON 1100 can only fulfill ACE 6 or 8, not both)									
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	Intro to Philosophy (or ACE 5)	4.5	PHIL	101	Introduction to Philosophy			3
PHIL	1030	Professional Ethics	4.5	PHIL	106	Philosophy & Current Issues			3
POLS	2050	American National Government	4.5	POLS	100	Power and Politics in America			3
ACE Outcome 9									
ECON	2720	International Economics	4.5	ECON	321	Introduction to International Economics			3
ENGL	2470	Intro To Women's Lit (or ACE 5)	4.5	ENGL	215	Intro to Women's Literature			3
ENGL	2530	Ethnic Literature (or ACE 5)	4.5	ENGL	244	African American Literature			3
GEOG	1050	Introduction to Human Geography	4.5	GEOG	140	Introduction to Human Geography			3
GEOG	2150	World Regional Geography	4.5	GEOG	272	Geography of World Regions			3
HIST	1110	World Civilization to 1500	4.5	HIST	210	World History to 1500			3
HIST	1120	World Civilization since 1500	4.5	HIST	121	World History since 1500			3
PHIL	1030	Professional Ethics (or ACE 8)	4.5	PHIL	106	Philosophy & Current Issues			3
PHIL	2200	Comparative Religion	4.5	RELG	108	World Religions			3
SOCI	2050	Current Social Problems	4.5	SOCI	201	Social Problems			3
SOCI	2160	Marriage and the Family	4.5	SOCI	225	Marriage & Family			3
ACE Outcome 10 Class must be taken at UNL									
Courses required for MCC Associate degree									
INFO	1001	Information Systems & Literacy	4.5	Vocational Credit					
HMRL	1010	Human Relations Skills (ACE 2)	4.5	ALEC	102	Interpersonal Skills for Leadership			3
MATH	1310	Intermediate Algebra	4.5	MATH	100A	Intermediate Algebra – Non-degree Applicable			0
MATH	1420	College Algebra	5	MATH	101	College Algebra			3



Bachelor of Science in Horticulture

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

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Pre-Horticulture (LAHAS)

Associate in Science

General Education Requirements27

Communications				Mathematics			
ENGL	1010	English Composition I (ACE 1)	4.5	MATH	1310	Intermediate Algebra	4.5
ENGL	1020	English Composition II (ACE 1)	4.5	Other			
SPCH	1110	Public Speaking (ACE 2)	4.5	HMRL	1010	Human Relations Skills (ACE 2)	4.5
				INFO	1001	Microcomputer Fundamentals	4.5

Major Requirements for Pre-Agricultural Sciences77

Mathematics						Social Sciences						
MATH	1410	Statistics (ACE 3)			4.5	Select 1 course (ACE 6) (4.5)						
MATH	1420	College Algebra			5	ECON	1000	ECON	1100			
MATH	1430	Trigonometry			4.5	Select 1 course (ACE 8) (4.5)						
CASNR requires 5 semester credit hours beyond College Algebra. Some Horticulture options require higher level Math courses. Please check UNL Undergraduate bulletin for appropriate Math courses.						ECON	1000	ECON	1100	PHIL	1010	
						PHIL	1030	POLS	2050			
						Natural Sciences						
						BIOS	1410	Biology of Lower Plants			4.5	
						BIOS	1420	Biology of Seed Plants			4.5	
						PHYS	110A	Principles of Physics 1A			7.5	
Humanities (select 1 course) (ACE 5) (4.5)							110B	Principles of Physics 1B (ACE 4)				
ENGL	2450	ENGL	2530	HIST	1020		110C	Principles of Physics 1C				
ENGL	2470	HIST	1010	PHIL	1010	CHEM	1210&1211	General Chemistry: Parts I & II OR			6	
Cultural Studies (ACE 9) (select 1 course) (4.5)						CHEM	1212	General Chemistry I: Accelerated (ACE 4)			6	
ECON	2720	ENGL	2470	ENGL	2530							
GEOG	1050	GEOG	2150	HIST	1110	CHEM	1220	General Chemistry II (ACE 4)			6	
HIST	1120	PHIL	1030	PHIL	2200	Horticultural Sciences (Choose at least 10.5 hours)						
SOCI	2050	SOCI	2160			HLSM	1010	Intro. To Horticulture [General Credit]			6	
						HLSM	1030	Intro to Floral Design I AND			3	
						HLSM	2620	Nursery & Garden Center Practices [HORT 261 and HORT elective]			3	
						HLSM	1310	Intro to Design – (NGA*) AND				
						HLSM	2300	Advanced Design [HORT 170]			3	
						HLSM	2410	Seed Propagation AND			3	
						HLSM	2415	Vegetative Propagation [HORT 221 and HORT elective]			3	
						HLSM	1130	Deciduous Trees AND			3	
						HLSM	1140	Coniferous Trees AND			3	
						HLSM	1150	Shrubs [HORT 212 and HORT 213]			3	
						HLSM	1210	Floral Design: Events AND			3	
						HLSM	1320	Floral Design: Hospitality [HORT 262 and HORT elective credit]			3	

Total Required Quarter Hours (98 quarter hours are degree applicable in CASNR) ... 104

NOTES

- Students must have a minimum cumulative GPA of 2.0 and a C average or higher in the last quarter of college enrollment. (Students need a grade of C or higher on transferable courses. Grades below C can only be applied to free electives and no more than 10 credit hours of grades below C will be transferable.)
- Students pursuing the associate to bachelor agreement should work closely with advisors to ensure a “seamless” transition and access to timely information at UNL. It is highly recommended that students meet with a UNL advisor at least one full academic year prior to transfer.
- (ACE #) Meets UNL Achievement-Centered Education (ACE) program outcome.
- Only one course will fill ACE 5, 6, 7, 8, or 9 as listed.
- (NGA*) Not Degree Applicable at UNL. Serves as prerequisite to required course.

Bachelor of Science in Horticulture

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Community College

UNIVERSITY OF
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Lincoln

ACE Student Learning Outcomes Course Equivalencies

Metropolitan Community College				Qtr. Hrs.	UNL			Sem. Hrs.
ACE Outcome 1								
ENGL	1010	English Composition I	4.5	ENGL	150	Writing: Rhetoric	3	
ENGL	1020	English Composition II	4.5	ENGL	101	Writing: Rhetoric and Reading	3	
ACE Outcome 2								
SPCH	1110	Public Speaking	4.5	COMM	209	Public Speaking	3	
ACE Outcome 3								
MATH	1430	Trigonometry	4.5	MATH	102	Trigonometry	2	
MATH	1410	Statistics	4.5	STAT	218	Introduction to Statistics	3	
ACE Outcome 4								
BIOS	1010	Introduction to Biology	6	BIOS	101/101L	General Biology and Lab	4	
PHYS	110ABC	Principles of Physics IA, IB, IC	7.5	PHYS	141	Elements of General Physics I	5	
CHEM	1010	College Chemistry OR	6	CHEM	109	General Chemistry I	4	
CHEM	1210&1211	General Chemistry I, parts 1 & 2 OR	6					
CHEM	1212	General Chemistry - Accelerated	6					
CHEM	1220	General Chemistry II	6	CHEM	110	General Chemistry II	4	
ACE Outcome 5								
ENGL	2450	Introduction to Literature	4.5	ENGL	180	Introduction to Literature	3	
ENGL	2470	Intro To Women's Literature	4.5	ENGL	215	Intro to Women's Literature	3	
ENGL	2530	Ethnic Literature	4.5	ENGL	244	African American Literature	3	
HIST	1010	United States History I	4.5	HIST	201	America to 1877	3	
HIST	1020	United States History II	4.5	HIST	202	America after 1877	3	
PHIL	1010	Introduction to Philosophy	4.5	PHIL	101	Introduction to Philosophy	3	
ACE Outcome 6								
ECON	1000	Macroeconomics	4.5	ECON	211	Principles of Macroeconomics	3	
ECON	1100	Microeconomics	4.5	ECON	212	Principles of Microeconomics	3	
ACE Outcome 7								
ARTS	1110	Art History-Ancient/Gothic	4.5	AHIS	101	Introduction to Art History and Criticism I	3	
ARTS	1120	Art History-Renaissance/Modern	4.5	AHIS	102	Introduction to Art History and Criticism II	3	
MUSC	1010	Introduction to Music OR	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	
ACE Outcome 8								
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	Intro to Philosophy (or ACE 5)	4.5	PHIL	101	Introduction to Philosophy	3	
PHIL	1030	Professional Ethics	4.5	PHIL	106	Philosophy & Current Issues	3	
POLS	2050	American National Government	4.5	POLS	100	Power and Politics in America	3	
ACE Outcome 9								
ECON	2720	International Economics	4.5	ECON	321	Introduction to International Economics	3	
ENGL	2470	Intro To Women's Lit (or ACE 5)	4.5	ENGL	215	Intro to Women's Literature	3	
ENGL	2530	Ethnic Literature (or ACE 5)	4.5	ENGL	244	African American Literature	3	
GEOG	1050	Introduction to Human Geography	4.5	GEOG	140	Introduction to Human Geography	3	
GEOG	2150	World Regional Geography	4.5	GEOG	272	Geography of World Regions	3	
HIST	1110	World Civilization to 1500	4.5	HIST	210	World History to 1500	3	
HIST	1120	World Civilization since 1500	4.5	HIST	121	World History since 1500	3	
PHIL	1030	Professional Ethics (or ACE 8)	4.5	PHIL	106	Philosophy & Current Issues	3	
PHIL	2200	Comparative Religion	4.5	RELG	108	World Religions	3	
SOCI	2050	Current Social Problems	4.5	SOCI	201	Social Problems	3	
SOCI	2160	Marriage and the Family	4.5	SOCI	225	Marriage & Family	3	
ACE Outcome 10 Class must be taken at UNL								3
Courses required for MCC Associate degree								
INFO	1001	Information Systems & Literacy	4.5	Vocational Credit				
HMRL	1010	Human Relations Skills (ACE 2)	4.5	ALEC	102	Interpersonal Skills for Leadership	3	
MATH	1310	Intermediate Algebra	4.5	MATH	100A	Intermediate Algebra – Non-degree Applicable	0	
MATH	1420	College Algebra	5	MATH	101	College Algebra	3	

Skilled & Technical Sciences Education Transfer (ITAS2)

Associate in Applied Science

To Bachelor of Science in Agricultural Education - UNL

This guide lists MCC courses that meet the requirements for an ITAS2 degree and prepare the student to transfer into the Agricultural Education program at UNL. Every effort has been made to insure accuracy however, students should meet with an MCC advisor at least twice a year to review requirements for their intended degree. UNL may have more specific requirements. Students intending to transfer should also speak with an UNL advisor to insure the optimal number of credits transfer. Only courses with a grade of C or better will transfer and students must have a minimum overall grade point average of 2.75 or higher. Students who have been awarded the Associate in Applied Science Degree in Skilled & Technical Sciences Education Transfer from Metropolitan Community College will be permitted to enter with junior class standing in the College of Agricultural Sciences and Natural Resources and to transfer the maximum of 90 quarter hours/60 semester hours earned.

General Education Requirements37.5-41.0

Metropolitan Community College courses					Qtr. Hrs.
General Education/UNL-ACE Student Learning Outcomes (see last page for specific class equivalencies)					
Complete ACE 1, ACE 2, ACE 3, and ACE 4 outcomes. Complete one course from either ACE 5 or ACE 6.					
ACE Outcome 1 Complete both courses.					9.0
ENGL 1010	English Composition I	4.5	ENGL 1020	English Composition II	4.5
ACE Outcome 2					4.5
HMRL 1010	Human Relations Skills	4.5			
ACE Outcome 3 Select Trigonometry and Statistics combination OR Calculus I					7.5-9.0
MATH 1430	Trigonometry	4.5	MATH 1410	Statistics	4.5
MATH 2410	Calculus I	7.5			
ACE Outcome 4 Select 2 courses, each from a different prefix (PHYS, CHEM and BIOS)					12.0-13.5
PHYS 110ABC	Principles of Physics IA, IB, IC	7.5	BIOS 1010	General Biology	6.0
CHEM 1010	College Chemistry	6.0	CHEM 1212	General Chemistry I	6.0
ACE Outcome 5 Select one course from ACE 5 or ACE 6.					4.5
ENGL 2450	Intro 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	Intro to Philosophy	4.5
ACE Outcome 6 Select one course from ACE 5 or ACE 6.					
ECON 1000	Macroeconomics	4.5	ECON 1100	Microeconomics	4.5
ACE Outcomes 7-10 Courses will be taken at UNL.					

Industrial Technology Endorsement Program54

Complete a minimum of 9 quarter hours in each area and an additional 18 hours in any of the four areas.				
Architecture and Construction			Select a minimum of 9 quarter hours.	
ARCH	1115	REVIT Essentials		9.0
CNST	1005	Introduction to Construction Industry		4.5
CNST	1020	Blueprint Reading		4.5
CNST	1050	Introduction to Carpentry		4.5
CNST	1240	Interior Finish & Cabinetry		9.0
CNST	1360	Floor, Wall, Stair and Ceiling Framing		9.0
Manufacturing			Select a minimum of 9 quarter hours.	
ELME	1050	Mechanical Print Reading		4.0
ELME	1212	Motor & Machine Controls:		9.0
ELME	2060	Mechanical Power Systems		4.0
ELME	2070	Hydraulics & Pneumatics		4.0
ELME	2231	Programmable Logic Controllers I		4.5
ELME	2232	Programmable Logic Controllers II		4.5
INCT	2050	Problem-Solving		3.0
PRMA	1401	Machine Tool I		9.0
PRMA	1402	Machine Tool II		9.0
PROT	1000	Intro to Process & Power Operations		4.5
PROT	1020	Intro to Process Operations in Manufacturing Technology		4.5
PROT	1030	Intro to Quality & Continuous Improvement		4.5
PROT	1250	Basic Electricity for Power & Process		6.0

PROT	1302	Stationary Engineering I	3.0
WELD	1000	Print Reading for Welders	3.0
WELD	1100	Industrial Cutting Process	3.0
WELD	1200	Gas Metal Arc Welding (MIG) Steel I	3.0
WELD	1300	Oxyacetylene Welding	3.0
WELD	1400	Gas Tungsten Arc Welding (TIG) - Steel I	3.0
WELD	1500	Shielded Metal Arc Welding (STICK) - Flat	3.0
Energy and Engineering			Select a minimum of 9 quarter hours.
DRAF	1100	AutoCAD Fundamentals	9.0
DRAF	1300	Inventor Fundamentals	9.0
ELTR	1200	Basic Electricity	8.0
HVAC	1101	HVACR Electrical Systems and Components	8.0
INCT	2100	Introduction to Robotics	4.0
SCET	1000	Civil Engineering Fundamentals	4.5
SCET	1120	AutoCAD Essentials	9.0
SCET	1130	REVIT (Structures)	4.5
Transportation, Distribution and Logistics (TDL)			Select a minimum of 9 quarter hours.
AUTT	1111	Auto 1 Automotive Fundamentals Theory	4.0
AUTT	1112	Auto 1 Automotive Fundamentals Lab	8.0
DESL	1000	Diesel Preventive Maintenance	4.5
DESL	1210	Electricity & Electronics	6.0
DESL	1230	Diesel Engine Fundamentals	4.0
ELME	1210	Introduction to Motors	4.5
INCT	1000	Industrial Safety and Health	4.5
INCT	1100	Logistics & Warehousing for Applied Technologies	4.5
INCT	1500	Introduction to Distribution	4.5

Total Degree Requirement.....91.5-95.0 quarter hours

Students must pass the Praxis Core exam before completion of ALEC 494 at UNL. It is recommended this exam be completed prior to the student's junior year.

To speak with an MCC representative, contact a Career and Technical Education (CTE) Academic Advisor at <https://mccneb.edu/advising> or 531-622-2400 or email Jani Falcone, Project Coordinator at jrfalcone@mccneb.edu.

To speak with a UNL College of Agricultural Sciences and Natural Resources representative call Eric Knoll at 402-472-2470 or email eknoll2@unl.edu.

ACE Student Learning Outcomes Course Equivalencies							
Metropolitan Community College				Qtr. Hrs.	UNL		Sem. Hrs.
ACE Outcome 1							6
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
ACE Outcome 2							3
HMRL	1010	Human Relations Skills	4.5	ALEC	102	Interpersonal Skills for Leadership	3
ACE Outcome 3							5-6
MATH	1430	Trigonometry AND	4.5	MATH	102	Trigonometry	2
MATH	1410	Statistics OR	4.5	STAT	218	Introduction to Statistics	3
MATH	2410	Calculus I	7.5	MATH	106	Calculus I	5
ACE Outcome 4							9
Select two courses from below from two different prefixes.							
PHYS	110ABC	Principles of Physics IA, IB, IC	7.5	PHYS	141	Elements of General Physics I	5
CHEM	1010	College Chemistry	6	CHEM	105 A/L	Chemistry in Context I/Lab	4
CHEM	1212	General Chemistry I	6	CHEM	109 A/L	General Chemistry I/Lab	4
BIOS	1010	General Biology	6	BIOS 101 & 101L		General Biology and General Biology Lab	4
ACE Outcome 5 <i>Select one course from ACE 5 or ACE 6.</i>							3
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
ACE Outcome 6 <i>Select one course from ACE 5 or ACE 6.</i>							3
ECON	1000	Macroeconomics	4.5	ECON	211	Principles of Macroeconomics	3
ECON	1100	Microeconomics	4.5	ECON	212	Principles of Microeconomics	3
ACE Outcomes 7-10 Courses will be taken at UNL.							3

College of Agricultural Science and Natural Resources APPENDIX 1
Bachelor of Science Degree in Agricultural Education
Skilled and Technical Sciences Teaching Option
Mid-Plains Community College Associate of Science Program

UNL			Mid-Plains Community College			
Course No.	Course Title	Semester Credits	Course No.	Course Title	Qtr. Hr. Credits	
Ace Outcome 1 - Written Communication						6
ENGL 150	Writing: Rhetoric AND	3	ENGL 1010	Expository Writing I AND	3	
ENGL 101	Writing: Rhetoric and Reading	3	ENGL 1020	Expository Writing II	3	
ACE Outcome 2 - Oral Communication						3
COMM 109	Fundamentals of Human Communication	3	SPCH 1090	Fundamentals of Human Communication	3	
ACE Outcome 3 - Mathematics and Statistics (CASNR needs 5 credits beyond College Algebra)						3
STAT 218	Introduction to Statistics	3	MATH 1180	Elements of Statistics	3	
ACE Outcome 4 - Science						9
CHEM 105	Chemistry in Context I OR	4	CHEM 1050	Survey of Chemistry I OR	4	
CHEM 109	General Chemistry I	4	CHEM 1090	General Chemistry I	4	
PHYS 141	Elements of General Physics I	5	PHYS 1410	General Physics I w/Lab	5	
ACE Outcome 5 , 7 , 8 (Please see advisor for numerous offerings)						3
ACE Outcome 6						3
ECON 211	Principles of Macroeconomics OR	3	ECON 2110	Principles of Economics - Macro OR	3	
ECON 212	Principles of Microeconomics	3	ECON 2120	Principles of Economics - Micro	3	
ACE Outcome 9						3
SOCI Credit	Sociology Subject Credit (will substitute for SOCI 217)	3	SOCI 2500	Dealing with Diversity	3	
Outcome 10 - Must be taken at UNL						
Please select 8 hours from each of the four areas below:						
Construction and Electrical:						8
BLDC 1005	Safety (Prereq for all BLDC Courses)	1	ELTR 1005	Safety (Prereq for all ELTR Courses)	1	
BLDC 1105/1115	Framing Construction & Lab	5	ELTR 1115	Direct Current Theory (Prereq: ELTR 1150)	4	
BLDC 1125/1135	Exterior Finish & Lab	5	ELTR 1130	Alternating Current Theory (Prereqs: ELTR 1115 & 1150)	4	
BLDC 1160	Introduction to Computer-Aided Design	2	ELTR 1150	Applied Math	2	
BLDC 1240	Green Build Technology	2	ELTR 1255	Residential Wiring (Prereqs: ELTR 1115, 1130 & 1150)	6	
Manufacturing and Welding:						8
WELD 1005	Safety (Prereq for all WELD courses)	1	WELD 1145	Print Reading	3	
WELD 1115	Arc/Gas Welding	4	WELD 1220	Arc/Gas Welding II	3	
WELD 1125	Intro to TIG Welding	1	WELD 1240	Intermediate MIG	3	
WELD 1135	Intro to MIG Welding	1	WELD 1245	Welding Prefabrication	2	
WELD 1140	Metals & Metallurgy	3	WELD 1250	Intermediate TIG	3	
Science, Technology, Engineering and Mathematics						8
ENGR 1000	Engineering Fundamentals	3	ENGR 1020	Programming & Problem Solving	3	
ENGR 1010	Introduction to Engineering Design	3				
The following 2 courses can be an option for MPCC students to take during the summer training institutes and reverse the credit back to MPCC. Both classes are taught by UNL and will be given UNL credit.						
ALEC 397	POE, Principles of Engineering	5	ALEC 397	IED, Introduction to Engineering	4	
Transportation, Distribution, and Logistics						8
AUTO 1005	Safety (Prereq for all AUTO courses)	1	AUTO 1755	Wheel Alignment	2	
AUTO 1170	Equipment Maintenance	1	WARE 1100	Introduction to Logistics	3	
AUTO 1200	Auto Suspension Systems	2	WARE 1200	Global Logistics	3	
AUTO 1215	Auto Braking Systems	4	WARE 1250	Transportation Logistics	3	
(60 Semester Hours will transfer to UNL)				Total Semester Hrs. for AS Degree		62

New 2/15

College of Agricultural Science and Natural Resources

APPENDIX 1

Bachelor of Science Degree Major to be Declared

Mid-Plains Community College Associate of Science Transfer Program-Animal Science Track

UNL			Mid-Plains Community College		
Course No.	Course Title	Required Credits	Course No.	Course Title	Required Credits
ACE Student Learning Outcomes - Except where noted, choose one course from each ACE Outcome.					
ACE Outcome 1					6
ENGL 150	Writing: Rhetoric	3	ENGL 1010	Expository Writing I	3
ENGL 151	Rhetoric As Argument	3	ENGL 1020	Expository Writing II	3
ACE Outcome 2					3
COMM 209	Public Speaking	3	SPCH 1110	Public Speaking	3
COMM 109	Fundamentals of Human Communication	3	SPCH 1010 or SPCH 1090	Fundamentals of Speech Communication or Fundamentals of Human Communication	3
ACE Outcome 3 - NOTE: CASNR requires at least 5 semester credit hours beyond College Algebra. Proficiency at the college algebra level must be demonstrated either by a placement exam or through course work. If MATH 1150 is taken, 3-credit hours earned will be free electives in the Bachelor of Science Degree in a major to be declared. Students should work closely with a MPCC and an UNL advisor to determine the proper math course to take based on the major at UNL.					5
STAT 218	Introduction to Statistics	3	MATH 1200	Elements of Statistics	3
MATH 101	College Algebra	3	MATH 1150	College Algebra	3
MATH 102	Trigonometry or	2/1 NDAP	MATH 1250	Trigonometry or	3
MATH 104	Calculus for Managerial and Social Sciences or	3	MATH 1350	Applied Calculus for Managerial and Social Science or	3
MATH 106	Analytic Geometry and Calculus I	5	MATH 1600	Analytic Geometry and Calculus I	5
ACE Outcome 4 - Select one course from two of the three areas. Students should work closely with a MPCC and an UNL advisor to determine the proper science courses to take based on the degree program at UNL.					8-9
AGRO 131 and 132	Plant Science and Plant Science Lab	4	AGRI 1030 and 1031	Introduction to Plant Science and Introduction to Plant Science Lab	4
BIOS 101/101L	General Biology	4	BIOS 1010	General Biology and General Biology Lab	4
BIOS 109	General Botany	4	BIOS 1090	General Botany and General Botany Lab	4
BIOS 112/112L	Introduction to Zoology and Intro to Zoology Lab	4	BIOS 1120	Introduction to Zoology and Introduction to Zoology Lab	4
CHEM 105	Chemistry in Context I	4	CHEM 1050	Survey of Chemistry I and Survey of Chemistry I Lab	4
CHEM 109	General Chemistry I	4	CHEM 1090	General Chemistry I and General Chemistry I Lab	4
PHYS 141	Elements of General Physics I	5	PHYS 1410	General Physics I and General Physics I Lab	5
Select no more than one course from each of the following 5 areas, for a total of 15 hrs.					15
ACE Outcome 5					3
ENGL 302A	Modern Poetry	3	ENGL 2030	Genre Survey: Poetry	3
ENGL 201A	Introduction to Drama	3	ENGL 2040	Genre Survey: Drama	3
ENGL 205	20th Centruy Fiction	3	ENGL 2060	20th Century Fiction	3
ENGL 230A	Shakespeare	3	ENGL 2300	Shakespeare	3
HIST 100	Western Civilization to 1715	3	HIST 1000	Western Civilization I to 1715	3
HIST 101	West Civilization since 1715	3	HIST 1010	Western Civilization II Since 1715	3
HIST 201	America to 1877	3	HIST 2010	American History I to 1877	3
HIST 202	America after 1877	3	HIST 2020	American History II Since 1877	3
ENGL 213E	Introduction to Film History	3	THEA 2130	History of the Motion Picture	3
ACE Outcome 6					3
AECN 141	Introduction to the Economics of Agriculture	3	AGRI 1410	Introduction to Ag-Economics	3
ACE Outcome 7					3
DRAW 101	Beginning Drawing	3	ARTS 1010	Drawing I	3
AHIS 101	Introduction to Art History and Criticism I	3	ARTS 2310	Art History Survey I	3
AHIS 102	Introduction to Art History and Criticism II	3	ARTS 2320	Art History Survey II	3
MUNM 276G	The Music Experience	3	MUSC 1660	Music Appreciation	3
THEA 112G	Introduction to Theatre	3	THEA 1010	Introduction to Theater	3
ACE Outcome 8					3
ECON 211	Principles of Macroeconomics	3	ECON 2110	Principles of Economics-Macro	3
ECON 212	Principles of Microeconomics	3	ECON 2120	Principles of Economics-Micro	3
PHIL 101	Intro to Philosophy	3	PHIL 1010	Introduction to Philosophy	3
PHIL 106	Philosophy and Current Issues	3	PHIL 2200	Elements of Ethics	3
POLS 100	Power and Politics in America	3	POLS 1000	American Government & Politics	3
ACE Outcome 9					3
GEOG 272	Geography of World Regions	3	GEOG 1040	World Regional Geography	3
GEOG 140	Introduction to Human Geography	3	GEOG 1400	Cultural Geography	3
HIST 120	World History to 1500	3	HIST 1050	World History I	3
HIST 121	World History since 1500	3	HIST 1060	World History II	3
POLS 160	International Relations	3	POLS 1600	International Relations	3
SOCI 201	Social Problems	3	SOCI 2010	Social Problems	3
SOCI 225	Marriage and Family	3	SOCI 2250	Marriage & Family Relationships	3
Outcome 10 - Must be taken at UNL					
Agricultural Sciences:					23
AGRI 103	Introduction to Agricultural and Natural Resource Systems	3	AGRI 1005	Orientation to Ag/Natural Resources	3
AECN 201	Farm and Ranch Management	4	AGRI 2040 and AGRI 2041	Farm & Ranch Management and Farm & Ranch Management Lab	4
AECN 2XX	Agricultural Economics 200-level Subject Credit	3	AGRI 1745	Agribusiness and Food Marketing	3
ASCI 1XX	Animal Science 100-level Subject Credit	3	AGRI 1015	Animal Agriculture	3
ASCI 2XX	Animal Science 200-level Subject Credit	3	AGRI 2100	Animal Products	3
ASCI 2XX	Animal Science 200-level Subject Credit	3	AGRI 2500	Animal Management	3
AGRO 153	Soil Resources	4	AGRI 1540 and AGRI 1541	Introduction to Soil Science and Introduction to Soil Science Lab	4
Total Hrs. for Associate of Science Degree					60

College of Agricultural Sciences and Natural Resources APPENDIX 1
Bachelor of Science Degree in Agribusiness or Agricultural Economics (General Option)
Nebraska College of Technical Agriculture Academic Transfer Program

UNL				Nebraska College of Technical Agriculture (NCTA)			
Course No.	Course Title	Required Credits		Course No.	Course Title	Required Credits	
ACE Student Learning Outcomes - Except where noted, choose one course from each ACE Outcome.							
Ace Outcome 1 (Written Communications)			3				3
ENGL 150	Writing and Inquiry	3		ENG 1903	Writing and Inquiry	3	
ENGL 151	Writing and Argument	3		ENG 2203	Writing and Argument	3	
JGEN 200	Technical Communication I	3		ENG 1503	Technical Communication I	3	
ACE Outcome 2 (Oral Communications)			3				3
COMM 209	Public Speaking	3		SPC 1113	Public Speaking	3	
ACE Outcome 3 (Mathematics and Statistics) - NOTE: Proficiency at the college algebra level must be demonstrated either by a placement exam or through course work. Three credits earned in MTH 1503, College Algebra, if taken to fulfill this requirement will be free electives at UNL. No credit is granted for MTH 1103, Basic Math; MTH 1203, Intermediate Algebra or MTH 1403 Agricultural Mathematics.							
STAT 218	Introduction to Statistics	3	3	MTH 2203	Introduction to Statistics	3	3
ACE Outcome 4 (Sciences)			8				8
Life Sciences - Select one							
BIOS 101/101L	General Biology	4		BIO 1104	General Biology and Lab	4	
AGRO 131/132	Plant Science and Agronomic Plant Science Lab	4		BIO 1313/1321	Plant Science/Agronomic Plant Science Lab	4	
Chemistry - Select one							
CHEM 105	Chemistry in Context I	4		CHM 1014	Intro to Chemistry	4	
CHEM 109	General Chemistry I	4		CHM 1104	General Chemistry I	4	
ACE Outcome 5 (Humanities)			3				3
HIST 111	America After 1877	3		HTY 1303	American History After 1877	3	
ACE Outcome 6 (Economics)			6				6
ECON 211	Principles of Macroeconomics	3		ECN 1303	Principles of Macroeconomics	3	
ECON 212	Principles of Microeconomics	3		ECN 1203	Principles of Microeconomics	3	
ACE Outcome 7 (Arts) NOTE: HSL 1053 can meet ACE 7 or 9 but not both.			3				3
ENGL 250	Introduction to Creative Writing	3		ENG 2223	Introduction to Creative Writing	3	
HORT 200	Landscape & Environmental Appreciation	3		HSL 1053	Landscape & Environmental Appreciation	3	
ACE Outcome 9 (Global Awareness) NOTE: HSL 1053 can meet ACE 7 or 9 but not both.			3				3
AECN2**	Agricultural Economics 200-Level Elective	3		ECN 1403	Economics of World Food and Agriculture	3	
HORT 200	Landscape & Environmental Appreciation	3		HSL 1053	Landscape & Environmental Appreciation	3	
Agricultural Economics			10				10
AECN 201	Farm and Ranch Management	4		ABM 2854	Farm and Ranch Management	4	
AECN 235	Introduction to Commodity Marketing	3		MKT 2203	Ag Marketing	3	
AECN 452	Agricultural Finance	3		ABM 2403	Ag Finance	3	
Agricultural Sciences and Natural Resources			10				10
AGRO 153	Soil Resources	4		AGR 1201/1203	Introduction to Soils and Lab	4	
ASCI 200	Animal and Carcass Evaluation	3		ASI 1213	Animal and Carcass Evaluation	3	
ASCI 250	Animal Management	3		ASI 1303	Animal Management	3	
Supporting Courses			6				6
ACCT 201	Principles of Accounting I	3		ACT 1103	Accounting I	3	
ACCT 202	Principles of Accounting II	3		ACT 1203	Accounting II	3	
Total Hours Applying Towards a Bachelors of Science Degree in Agribusiness or Agricultural Economics (UNL)			58	Total Hours Applying Towards an Associate of Science Degree at NCTA. NOTE: UNL will only accept a total of 60 semester hours.			58

Updated 3/19

College of Agricultural Sciences and Natural Resources
Bachelor of Science Degree in Agricultural Education-Teaching Option
Nebraska College of Technical Agriculture Academic Transfer Program

APPENDIX 2

UNL				NCTA				
Course No.	Course Title	Required Credits		Course No.	Course Title	Required Credits		
ACE Student Learning Outcomes - Except where noted, choose one course from each ACE Outcome.								
Ace Outcome 1 -Select one course			3	Written Communications			3	
ENGL 150	Writing and Inquiry	3		ENG 1903	Writing and Inquiry	3		
ENGL 151	Writing and Argument	3		ENG 2203	Writing and Argument	3		
ACE Outcome 2			3	Oral Communications			3	
COMM 209	Public Speaking	3		SPC 1113	Public Speaking	3		
ACE Outcome 3 - All courses below are program requirements			5	Critical Thinking and Problem Solving-Mathematics			5	
STAT 218	Introduction to Statistics	3		MTH 2203	Introduction to Statistics	3		
MATH 102	Trigonometry	2		2252	Trigonometry	2		
ACE Outcome 4			8	Natural Sciences			8	
AGRO 131/132	Plant Science and Plant Science Lab	4		BIO 1313/1321	Plant Science and Plant Science Lab	4		
CHEM 105	Chemistry in Context I	4		CHM 1014	Introduction to Chemistry	4		
ACE Outcome 5			3				3	
HIST 111	America after 1877	3		HTY 1303	American History after 1877	3		
ACE Outcome 6			3				3	
ECON 212	Principles of Microeconomics	3		ECN 1203	Principles of Microeconomics	3		
ACE Outcome 7			3				3	
HORT 200	Landscape and Environment Appreciation	3		HSL 1053	Landscape and Environment Appreciation	3		
ACE Outcome 8			3				3	
ECON 211	Principles of Macroeconomics	3		ECN 1303	Principles of Macroeconomics	3		
Agricultural Education			29	Agricultural Education			29	
ALEC 104	Wood Technology	3		AGR 2103	Building Construction	3		
ALEC 135	Introduction to Secondary Agriscience Education	3		AED 1103	Introduction to Secondary Agriscience Education	3		
ALEC 234	Planing Leadership and Exp Program	3		AED 1233	Planning Leadership and Experiential Programs	3		
MSYM 100 level subject credit	Small Engines	3		AEQ 1103	Small Engines	3		
ALEC 205	Welding Technology	3		AEQ 1203	Welding	3		
AECN 201	Farm and Ranch Management	4		ABM 2854	Farm and Ranch Management	4		
AGRO 153	Soil Resources	4		AGR 1201 and 1203	Principles of Soils Lab and Principles of Soils	4		
ASCI 210	Animal Products	3		ASI 2513	Meat Science	3		
ASCI 100/L	Fundamentals of Animal Biology and Industry/Lab	3		ASI 1040	Fundamentals of Animal Biology	3		
ACE Outcome 9 - Must be taken at UNL								
ACE Outcome 10 - Must be taken at UNL								
Total Hours Applying Towards a Bachelors of Science Degree in Agricultural Education (UNL).			60	Total Hours Applying Towards an Associate of Science Degree at NCTA. NOTE: UNL will only accept a total of 60 semester hours.				60

Updated 3/19

College of Agricultural Sciences and Natural Resources APPENDIX 4
Bachelor of Science Degree in Agronomy-Integrated Crop Management Option
Nebraska College of Technical Agriculture Academic Transfer Program

UNL				Nebraska College of Technical Agriculture (NCTA)			
Course No.	Course Title	Required Credits		Course No.	Course Title	Required Credits	
ACE Student Learning Outcomes - Except where noted, choose one course from each ACE Outcome.							
Ace Outcome 1 (Written Communications)			3				3
ENGL 150	Writing and Inquiry	3		ENG 1903	Writing and Inquiry	3	
ENGL 151	Writing and Argument	3		ENG 2203	Writing and Argument	3	
JGEN 200	Technical Communication I	3		ENG 1503	Technical Communication I	3	
ACE Outcome 2 (Oral Communications)			3				3
ALEC 102	Interpersonal Skills for Leadership	3		AED 1023	Interpersonal Skills for Leadership	3	
COMM 209	Public Speaking	3		SPC 1113	Public Speaking	3	
ACE Outcome 3 (Mathematics and Statistics) - NOTE: Proficiency at the college algebra level must be demonstrated either by a placement exam or through course work. Three credits earned in MTH 1503, College Algebra, if taken to fulfill this requirement will be free electives at UNL. No credit is granted for MTH 1103, Basic Math; MTH 1203, Intermediate Algebra or MTH 1403 Agricultural Mathematics.							
STAT 218	Introduction to Statistics	3	5	MTH 2203	Introduction to Statistics	3	5
MTH 102	Trigonometry	2		MTH 2252	Trigonometry	2	
Outcome 4 (Sciences)			8				8
AGRO 131/132	Plant Science and Agronomic Plant Science Lab	4		BIO 1313/1321	Plant Science/Agronomic Plant Science Lab	4	
CHEM 105 or CHEM 109	Chemistry in Context I/General Chemistry I	4		CHM 1014 or CHM 1104	Intro to Chemistry/General Chemistry I	4	
ACE Outcome 5 (Humanities)			3				3
HIST 111	American History After 1877	3		HTY 1303	American History After 1877	3	
ACE Outcome 6 (Economics) NOTE: ECN 1303 or 1202 can meet ACE 6 or 8 but not both.							3
ECON 211	Principles of Macroeconomics	3	3	ECN 1303	Principles of Macroeconomics	3	
ECON 212	Principles of Microeconomics	3		ECN 1203	Principles of Microeconomics	3	
ACE Outcome 7 (Arts) NOTE: HSL 1053 can meet ACE 7 or 9 but not both.							3
ENGL 250	Beginning Creative Writing	3	3	ENG 2223	Beginning Creative Writing	3	
HORT 200	Landscape & Environmental Appreciation	3		HSL 1053	Landscape & Environmental Appreciation	3	
ACE Outcome 8 (Ethical Principles) NOTE: ECN 1303 or 1202 can meet ACE 6 or 8 but not both.							3
ECON 211	Principles of Macroeconomics	3	3	ECN 1303	Principles of Macroeconomics	3	
ECON 212	Principles of Microeconomics	3		ECN 1203	Principles of Microeconomics	3	
Agricultural Sciences			14				14
AGRO 153	Soil Resources	4		AGR 1201/1203	Principles of Soils Lab/Principles of Soils	4	
AGRO 204	Resource-Efficient Crop Management	3		AGR 2404	Crop Management	3	
AGRO 240	Forage Crop and Range Management	3		ASI 2303	Range Management	3	
AGRO 366	Soil Nutrient Relationships	4		AGR 2304	Soil Fertility	4	
Business and Economics			7				7
AECN 201	Farm and Ranch Management	4		ABM 2854	Farm and Ranch Management	4	
AECN 235	Introduction to Commodity Marketing	3		MKT 2103	Ag Marketing	3	
Total Hours Applying Towards a Bachelors of Science Degree in Agronomy (UNL)			52	Total Hours Applying Towards an Associate of Science Degree at NCTA.			52
				NOTE: UNL will only accept a total of 60 semester hours.			

Updated 3/19

College of Agricultural Sciences and Natural Resources

Bachelor of Science Degree in Animal Science - Food Animal Production and Management Option

Nebraska College of Technical Agriculture Academic Transfer Program

APPENDIX 6

UNL				NCTA			
Course No.	Course Title	Required Credits		Course No.	Course Title	Required Credits	
ACE Student Learning Outcomes - Except where noted, choose one course from each ACE Outcome.							
Ace Outcome 1			3	Written Communications			3
ENGL 150	Writing and Inquiry	3		ENG 1903	Writing and Inquiry	3	
ENGL 151	Writing and Argument	3		ENG 2203	Writing and Argument	3	
ACE Outcome 2			3	Oral Communications			3
COMM 209	Public Speaking	3		SPC 1113	Public Speaking	3	
ACE Outcome 3 (Mathematics and Statistics) - NOTE: Proficiency at the college algebra level must be demonstrated either by a placement exam or through course work. Three credits earned in MTH 1503, College Algebra , if taken to fulfill this requirement will be free electives at UNL. No credit is granted for MTH 1103, Basic Math; MTH 1203, Intermediate Algebra or MTH 1403 Agricultural Mathematics .							
ACE Outcome 3 - All courses below are program requirements			5	Critical Thinking and Problem Solving-Mathematics			5
STAT 218	Introduction to Statistics	3		MTH 2203	Introduction to Statistics	3	
MATH 102	Trigonometry	2		MTH 2252	Trigonometry	2	
ACE Outcome 4			8	Natural Sciences			8
BIOS 101/101L	General Biology and Lab	4		BIO 1104	General Biology and Lab	4	
CHEM 105 or CHEM 109	Chemistry in Context I/General Chemistry	4		CHM 1014 or CHM 1104	Intro to Chemistry/General Chemistry I	4	
ACE Outcome 5			3				3
HIST 111	America after 1877	3		HTY 1303	American History after 1877	3	
ACE Outcome 6			3				3
ECON 212	Principles of Microeconomics	3		ECN 1203	Principles of Microeconomics	3	
ACE Outcome 7			3				3
ENGL 170	Beginning Creative Writing	3		ENG 2223	Beginning Creative Writing	3	
ACE Outcome 8			3				3
ECON 211	Principles of Macroeconomics	3		ECN 1303	Principles of Macroeconomics	3	
ACE Outcome 9			3				3
HORT 200	Landscape and Environment Appreciation	3		HSL 1053	Landscape and Environment Appreciation	3	
Agricultural Sciences			24	Agricultural Sciences			24
AECN 201	Farm and Ranch Management	4		ABM 2854	Farm and Ranch Management	4	
ASCI 100/L	Fundamentals of Animal Biology and Industry/Lab	4		ASI 1024	Fundamentals of Animal Biology	4	
ASCI 200	Animal and Carcass Evaluation	3		ASI 1213	Livestock and Carcass Evaluation	3	
ASCI 210	Animal Products	3		ASI 2513	Meat Science	3	
ASCI 240	Anatomy and Physiology of Domestic Animals	4		ASI 2604	Livestock Anatomy and Physiology	4	
ASCI 250	Animal Management	3		ASI 1303	Animal Management	3	
AGRO 240	Forage Crop & Range Management	3		ASI 2303	Range Management	3	
ACE Outcome 10 - Must be taken at UNL							
Total Hours Applying Towards a Bachelors of Science Degree in Animal Science (UNL).			58	Total Hours Applying Toward an Associate of Science Degree at NCTA. NOTE: UNL will only accept a total of 60 semester hours.			58

College of Agricultural Science and Natural Resources
Bachelor of Science Degree in Mechanized Systems Management - Production Option
Nebraska College of Technical Agriculture Academic Transfer Program

UNL			Nebraska College of Technical Agriculture (NCTA)		
Course No.	Course Title	Required Credits	Course No.	Course Title	Required Credits
ACE Student Learning Outcomes - Except where noted, choose one course from each ACE Outcome.					
Ace Outcome 1 (Written Communications) (Select 6 hours)		3			3
ENGL 150	Writing and Inquiry	3	ENG 1903	Writing and Inquiry	3
ACE Outcome 2 (Oral Communications)		3			3
COMM 209	Public Speaking	3	SPC 1113	Public Speaking	3
ACE Outcome 3 (Mathematics and Statistics) - NOTE: Proficiency at the college algebra level must be demonstrated either by a placement exam or through course work. Three credits earned in MTH 1503, College Algebra, if taken to fulfill this requirement will be free electives at UNL. No credit is granted for MTH 1103, Basic Math; MTH 1203, Intermediate Algebra or MTH 1403 Agricultural Mathematics.					
STAT 218	Introduction to Statistics	3	MTH 2203	Introduction to Statistics	3
MTH 102	Trigonometry	2	MTH 2252	Trigonometry	2
ACE Outcome 4 (Sciences)		8			8
AGRO 131/132	Plant Science and Agronomic Plant Science Lab	4	BIO 1313/1321	Plant Science/Agronomic Plant Science Lab	4
CHEM 109	General Chemistry I	4	CHM 1104	General Chemistry I	4
ACE Outcome 5 (Humanities)		3			3
HIST 111	American History After 1877	3	HTY 1303	American History After 1877	3
ACE Outcome 6 (Economics)		3			3
ECON 212	Principles of Microeconomics	3	ECN 1203	Principles of Microeconomics	3
ACE Outcome 7 (Arts)		3			3
HORT 200	Landscape & Environmental Appreciation	3	HSL 1053	Landscape & Environmental Appreciation	3
ACE Outcome 8 (Ethical Principles)		3			3
ECON 211	Principles of Macroeconomics	3	ECN 1303	Principles of Macroeconomics	3
Degree Requirements		10			10
AGRO 153	Soil Resources	4	AGR 1201/1203	Principles of Soils Lab/Principles of Soils	4
MSYM 245	Electrical Service Systems/	3/3 GNCR	AEQ 1153/1503	Equipment Principles and DC Circuit Analysis	6
Production Option		17			17
AECN 201	Farm and Ranch Management	4	ABM 2854	Farm and Ranch Management	4
AGRO 204	Resource-Efficient Crop Management	3	AGR 2403	Crop Management	3
AGRO 366	Soil Nutrient Relationships	4	AGR 2304	Soil Fertility	4
ASCI 250	Animal Management	3	ASI 1303	Animal Management	3
MSYM 2XX	MSYM Subject Matter Credit	3	AEQ/AGR 2XXX	Ag Equipment Subject Matter Course	3
Total Hours Applying Towards a Bachelors of Science Degree in Mechanized Systems Management (UNL)		58	Total Hours Applying Towards an Associate of Science Degree at NCTA. NOTE: UNL will only accept a total of 60 semester hours.		58

NOTE: NCTA students need to complete MSYM 109 online at UNL during a summer session.

Northeast Community College and University of Nebraska-Lincoln
CASNR A to B Transfer Agreement
Suggested Program of Study for Associate of Science Degree
Agriculture—College Transfer leading to a Bachelor of Science Degree
in Agribusiness-General Option or Agricultural Economics

Subject Area	NECC Course	UNL Equivalent	Credits	NECC Credits	UNL Credits
Mathematics and Analytical Skills (select 6-8 Cr. Hr.)				6-8	6-8
<i>Mathematics (select one)</i>	MATH 2000 Analytic Geom. & Calculus I	MATH 104	5	5	5
	MATH 2050 Applied Business Calculus	MATH 106	3	3	3
	<i>Statistics</i> MATH 2030 Introduction to Statistics	STAT 218	3	3	3
Communication				6	6
<i>Written Communication</i>	ENGL 1010 English Composition I	ENGL 150	3		
<i>Oral Communication</i>	SPCH 1110 Public Speaking	COMM209	3		
Natural Sciences (select 9 Credit Hr.)				9	9
<i>Life Sciences (select one)</i>	BIOS 1010 General Biology	BIOS 101, BIOS 101 L	4		
	AGRI 1131 and 1132 Plant Science and Lab	AGRO 131, AGRO 132	4		
	<i>Chemistry</i> CHEM 1140 General Chemistry	CHEM 109	5		(4)GNCR 1
Economics, Humanities and Social Science				18	18
Economics ACE Category 6		AGRI 1410 Introduction to Econ. of Agriculture	AECN 141	3	
		ECON 2110 Principles of Macroeconomics	ECON 211	3	
ACE Category 5(select one)			3		
	ENGL 2100 Introduction to Literature	ENGL 180			
	ENGL 2120 Introduction to Drama	ENGL 201A			
	ENGL 2140 Introduction to Shakespeare	ENGL 230A			
	ENGL 2150 Survey of American Literature I	ENGL 361A			
	ENGL 2160 Survey of American Literature II	ENGL 361B			
	ENGL 2200 Survey of English Literature I	ENGL 230A			
	ENGL 2210 Survey of English Literature II	ENGL 231			
	HIST 1030 European Civilization I	HIST 100			
	HIST 1040 European Civilization II	HIST101			
	HIST 2010 American History I	HIST 201			
	HIST 2020 American History II	HIST 202			
ACE Category 7 (select one)			3		
	ARTS 2000 Art History Ancient to Gothic	AHIS 101			
	ARTS 2010 Art History Renaissance to Present	AHIS 102			
	ENGL 2030 Creating Poetry I	ENGL 253			
	ENGL 2050 Creating Stories I	ENGL 252			
	MUSC 1550 Music in Western Culture	MUNM 276G			
	SPCH 2050 Oral Interpretation of Literature	COMM 205			
ACE Category 8 (select one)			3		
	ECON 2120 Principles of Microeconomics	ECON 212			
	POLS 1000 American Government	POLS 100			

APPENDIX 4

ACE Category 9 (select one)		3		
	AGRI 1290 International Agriculture & Agribusiness	AGRI 282		
	GEOG 1020 World Regional Geography	GEOG 272		
	HIST 1050 World History I	HIST 120		
	HIST 1060 World History II	HIST 121		
	SOCI 1100 Introduction to Family Living	SOCI225		
	SOCI 2150 Issues of Unity & Diversity	SOCI 217		
Major Requirements			4	4
	AGRI 1030 Introduction to Soil Science	AGRO 153	3	
	AGRI 1040 Introduction to Soil Science Lab		1	
Supporting Courses				
Note: These hours will count as Gen. Ed. Requirements for NECC and electives for UNL			5	3
	AGRI 1000 Computer Applications	AGRI 271	2	
	AGRI 2000 Integrated Spreadsheet Applications		3	
NECC General Education Requirement -- select one			3	
Count as Economics, Humanities and Social Science elective for UNL			3	3
	PSYC 1810 Introduction to Psychology	PSYC 181	3	
	SOCI 1010 introduction to Sociology	SOCI 101	3	
Total			55-57	52-55

Revised 3/31/2011

College of Agricultural Sciences and Natural Resources
Bachelor of Science Degree in Agricultural Education-Skilled and Technical Sciences Option
Northeast Community College Associate of Science Degree

APPENDIX 1

UNL			Northeast Community College		
Course No.	Course Title	Required Credits	Course No.	Course Title	Required Credits
ACE Student Learning Outcomes - Except where noted, choose one course from each ACE Outcome.					
Ace Outcome 1		3			3
ENGL 150	Writing & Inquiry	3	ENGL 1010	English Composition I	3
ACE Outcome 2 - Select one course		3			3
COMM 209	Public Speaking	3	SPCH 1110	Public Speaking	3
COMM 109	Fundamentals of Human Communication	3	SPCH 1010	Fundamentals of Communication	3
ACE Outcome 3 - CASNR requires 5 credits beyond College Algebra - select one of the two series					
					5-6
STAT 218	Introduction to Statistics AND	3	MATH 2030	Introduction to Statistics AND	3
MATH 102	Trigonometry OR	2/1 NDAP ¹	MATH 1220	Trigonometry OR	3
MATH 104	Applied Calculus	3	MATH 2050	Applied Business Calculus	3
MATH 106	Calculus I	5	MATH 2000	Analytic Geometry and Calculus I	5
ACE Outcome 4 - Select one course from either the Biology, Chemistry or Physics area					4-5
					4-5
BIOS 101/101L	General Biology	4	BIOS 1010	General Biology AND	4
CHEM 109	General Chemistry I	4/1 NDAP ¹	CHEM 1140	General Chemistry I OR	5
PHYS 141	Elements of General Physics I	5	PHYS 1130	Introductory Physics I	5
ACE Outcome 5 or 7		3			3
ENGL 180 (ACE 5)	Intro to Literature	3	ENGL 2100	Intro to Literature	3
AHIS 101 (ACE 7)	Cave Paintings to Cathedrals	3	ARTS 1050	Introduction to Art History and Criticism I	3
AHIS 102 (ACE 7)	Renaissance to Modern Art	3	ARTS 1060	Introduction to Art History and Criticism II	3
MUMN 276G (ACE 7)	The Music Experience	3	MUSC 1010	Introduction to Music	3
ACE Outcome 6		3			3
ECON 211	Principles of Macroeconomics	3	ECON 2110	Principles of Macroeconomics	3
ACE Outcome 9		3			3
SOCI 217	Nationality and Race Relations	3	SOCI 2150	Issues of Unity and Diversity	3
Outcome 10 - Must be taken at UNL					
Please select 9 hours from each of the four areas below at Northeast Community College:					36
Architecture and Construction:					9
CNST 1030	Construction Drafting	2	CNST 1015	Building Construction I	3
CNST 1040	Construction Drafting Lab	1	CNST 1025	Building construction I Lab	5
CNST 1050	Residential Blueprint Reading	3			
Manufacturing:					9
INDT 1015	Introduction to Manufacturing	2	WELD 1030/1035	Shielded Metal Arc Welding Basic SMAW Theory/Lab	4.5
INDT 1025	Introduction to Industrial Safety	2	WELD 1040/1045	Gas Metal and Flux Cored Arc Welding Theory/Lab	4.5
INDT 1170	Introduction to Total Quality Management	2			
INDT 1055	Printreading for the Industrial Trades	2			
INDT 1065	Manufacturing Technologies and Measurement	2			
INDT 1085	Industrial Maintenance Fundamentals	3			
Science, Technology, Engineering and Mathematics:					9
ELTR/ELMC 1010	Fundamentals of Electricity Theory	3	ENGR 1010	Multidisciplinary Design (Required to complete an Associate of Science Degree)	3
ELTR/ELMC 1020	Fundamentals of Electricity Lab	2			
ELMC 1090	Mechanical Matter and Energy	3			
The following 2 courses can be an option for NECC students to take during the summer training institutes and reverse the credit back to NECC. Both classes are taught by UNL and will be given UNL credit.					
ALEC 115	POE, Principles of Engineering	5	ALEC 105	IED, Introduction to Engineering	4
Transportation:					9
AUTT 1010/1020	Suspension, Steering and Brake System Theory/Lab	7			
AUTT 1110/1120	Electrical System Theory/Lab	7			
Total Hours Applying Towards a Bachelors of Science Degree in Agricultural Education (UNL)			Total Hours Applying Towards an Associate of Science Degree at Northeast Community College. NOTE: UNL will only accept a total of 60 semester hours.		
					60-62

¹ = Non Degree Applicable

Northeast Community College and University of Nebraska-Lincoln
CASNR A to B Transfer Agreement
Associate of Science Degree in Agriculture- College Transfer
leading to a Bachelor of Science degree in Agricultural Education, Teaching Option

Subject Area	NECC Course	UNL Equivalent	Credits	NECC Credits	UNL Credits
Mathematics and Analytical Skills				8	5
<i>(Beyond College Algebra)</i>	MATH 1200 Algebra and Trigonometry	MATH 103	5		
	MATH 2030 Introduction to Statistics	STAT 218	3		
NOTE: Three credit hours earned in Math 1200 will be free electives in the Bachelor of Science Degree in Agricultural Sciences.					
Communication				9	9
<i>Written</i>	ENGL 1010 English Composition I	ENGL 150	3		
	<i>Oral</i> SPCH 1010 Public Speaking	COMM209	3		
	<i>Communication & Interpersonal Skills</i> AGRI 1420 Interpersonal Skills	ALEC 102	3		
Natural Sciences				14	14
<i>Biological Sciences—select one</i>	BIOS 1010 General Biology	BIOS 101,			
	BIOS 1050 General Botany	BIOS 101 L	4		
		BIOS 109	4		
	BIOS 1090 General Zoology	BIOS112,			
		BIOS 112L	4		
<i>Chemistry</i>	CHEM 1140 General Chemistry	CHEM 109	5		(4) GNCR 1
<i>Physical Science-- select one</i>	PHYS 1130 Introduction to Physics w/Lab	PHYS 141	5		
	PHYS 2030 General Physics I	PHYS 211	5		
General Education Requirements				18	18
<i>Economics ACE Category 6</i>	AGRI 1410 Introduction to Econ. of Agriculture	AECN 141	3		
<i>ACE Category 5(select one)</i>			3		
	ENGL 2100 Introduction to Literature	ENGL 180			
	ENGL 2120 Introduction to Drama	ENGL 201A			
	ENGL 2140 Introduction to Shakespeare	ENGL 230A			
	ENGL 2150 Survey of American Literature I	ENGL 361A			
	ENGL 2160 Survey of American Literature II	ENGL 361B			
	ENGL 2200 Survey of English Literature I	ENGL 230A			
	ENGL 2210 Survey of English Literature II	ENGL 231			
	HIST 1030 European Civilization I	HIST 100			
	HIST 1040 European Civilization II	HIST101			
	HIST 2010 American History I	HIST 201			
	HIST 2020 American History II	HIST 202			
<i>ACE Category 7 (select one)</i>			3		
	ARTS 2000 Art History Ancient to Gothic	AHIS 101			
	ARTS 2010 Art History Renaissance to Present	AHIS 102			
	ENGL 2030 Creating Poetry I	ENGL 253			
	ENGL 2050 Creating Stories I	ENGL 252			
	MUSC 1550 Music in Western Culture	MUNM 276G			
	SPCH 2050 Oral Interpretation of Literature	COMM 205			
<i>ACE Category 8 (select one)</i>			3		
	ECON 2110 Principles of Macroeconomics	ECON 211			
	ECON 2120 Principles of Microeconomics	ECON 212			

APPENDIX 3

Subject Area	NECC Course	UNL Equivalent	Credits	NECC Credits	UNL Credits
	POLS 1000 American Government	POLS 100			
ACE Category 9			6		
	SOCI 2150 Issues of Unity & Diversity	SOCI 217	3		
(select one)	AGRI 1290 International Agriculture & Agribusiness	AGRI 282			
	HIST 1050 World History I	HIST 120	3		
	HIST 1060 World History II	HIST 121	3		
	SOCI 1100 Introduction to Family Living	SOCI225	3		
NECC Gen Ed Requirement- UNL elective (select one)				3	3
	PSYC 1810 Introduction to Psychology	PSYC 181	3		
	SOCI 1010 introduction to Sociology	SOCI 101	3		
Agriculture and Natural Resource Sciences					
	(select a total of 12-14 credit hours)			12-14	12-14
<i>Management</i>	AGRI 1230 Feeds & Feeding	ASCI 250	3		
<i>Production</i>	AGRI 1131 Plant Science	AGRO 131	3		
	AGRI 1132 Plant Science Lab	AGRO 132	1		
	AGRI 1010/1340 Animal Science & Lab	ASCI 100	4		
<i>Natural Resources</i>	AGRI 1030 Introduction to Soil Science	AGRO 153	3		
	AGRI 1040 Introduction to Soil Science Lab		1		
<i>Mechanized Systems</i>	AGRI 1050 Farm Welding	TEAC 205	1		
	AGRI 1060 Farm Welding lab	TEAC***@	2		
	AGRI 1240 Adv. Farm Welding		1		
	AGRI 1250 Adv. Farm Welding lab		2		
<i>Food System</i>	AGRI 1310 Agribusiness Management	AECN 225	3		
TOTAL				64-66	61-63

Revised 3/31/2011

Northeast Community College and University of Nebraska-Lincoln
CASNR A to B Transfer Agreement
Associate of Science Degree in Agriculture- College Transfer
leading to a Bachelor of Science Degree in Agronomy

Subject Area	Course Title	UNL Equivalent	Credit Hours	NECC Credits	UNL Credits
Mathematics and Analytical Skills				6-8	5-8
<i>Mathematics (select one)</i>	MATH 1200 Algebra and Trigonometry	MATH 103	5		2
	MATH 2050 Applied Calculus	MATH 104	3		
	MATH2000 Analytic Geom. & Calculus	MATH 106	5		
	<i>Statistics</i> MATH 2030 Introduction to Statistics	STAT 218	3		
Note: Proficiency at the college algebra level must be demonstrated either by a placement exam or through course work. 3 cr. Hr. earned in MATH 1200 will be free electives in the Bachelor of Science degree in Agricultural Science.					
Communication				9	9
<i>Written Communication</i>	ENGL 1010 English Composition I	ENGL 150	3		
<i>Oral Communication(select one)</i>	SPCH 1110 Public Speaking	COMM209	3		
	SPCH 1010 Fundamentals of Communication	COMM 109	3		
<i>Communication & Interpersonal Skills (select one)</i>	AGRI 1420 Interpersonal Skills	ALEC 102	3		
	ENGL 1020 English Composition II	ENGL 101	3		
Natural Sciences (select three)			9	13	13
	AGRI 1131 and 1132 Plant Science and Lab	AGRO 131,			
		AGRO 132	4		
	BIOS 1050 General Botany	BIOS 109	4		
	PHYS 1130 Introduction to Physics w/Lab	PHYS 141	5		
Economics, Humanities and Social Science				15	15
Economics, ACE Category 6	AGRI 1410 Introduction to Econ. of Agriculture	AECN 141	3		
ACE Category 5(select one)			3		
	ENGL 2100 Introduction to Literature	ENGL 180			
	ENGL 2120 Introduction to Drama	ENGL 201A			
	ENGL 2140 Introduction to Shakespeare	ENGL 230A			
	ENGL 2150 Survey of American Literature I	ENGL 361A			
	ENGL 2160 Survey of American Literature II	ENGL 361B			
	ENGL 2200 Survey of English Literature I	ENGL 230A			
	ENGL 2210 Survey of English Literature II	ENGL 231			
	HIST 1030 European Civilization I	HIST 100			
	HIST 1040 European Civilization II	HIST 101			
	HIST 2010 American History I	HIST 201			
	HIST 2020 American History II	HIST 202			
ACE Category 7 (select one)			3		
	ARTS 2000 Art History Ancient to Gothic	AHIS 101			
	ARTS 2010 Art History Renaissance to Present	AHIS 102			
	ENGL 2030 Creating Poetry I	ENGL 253			
	ENGL 2050 Creating Stories I	ENGL 252			
	MUSC 1550 Music in Western Culture	MUNM 276G			
	SPCH 2050 Oral Interpretation of Literature	COMM 205			
ACE Category 8 (select one)			3		
	ECON 2110 Principles of Macroeconomics	ECON 211			
	ECON 2120 Principles of Microeconomics	ECON 212			
	POLS 1000 American Government	POLS 100			

APPENDIX 2

Subject Area	NECC Course	UNL Equivalent	Credits	NECC Credits	UNL Credits
ACE Category 9 (select one)			3		
	AGRI 1290 International Agriculture & Agribusiness	AGRI 282			
	GEOG 1020 World Regional Geography	GEOG 272			
	HIST 1050 World History I	HIST 120			
	HIST 1060 World History II	HIST 121			
	SOCI 1100 Introduction to Family Living	SOCI225			
	SOCI 2150 Issues of Unity & Diversity	SOCI 217			
Major Requirements				13	13
	AGRI 1030 Introduction to Soil Science	AGRI 153	3		
	AGRI 1040 Introduction to Soil Science Lab		1		
	AGRI 1310 Agribusiness Management	AECN 225	3		
	AGRI1020 Intro to Farm Management	AECN 201	3		
	AGRI 2870 Agricultural Law	AECN256	3		
Agriculture Sciences and Natural Resources Electives (select 6 credit hours including AGRI 1000 & 2000)				6	6
	AGRI 1000& 2000 Computer Applications Note: AGRI 1000 & 2000 meets an NECC Gen. Ed. Requirement, and counts as CASNR elective for UNL	AGRI 271	5		(3)
	AGRI 1230 Feeds & Feeding and	ASCI 250	3		
	AGRI 2280, 2820, 2840, 2260, or 2850	ACSI 399	1		
	AGRI 2040 Livestock Production	ASCI 250	3		
	AGRI 2460 Resource Efficient Crop Management	AGRO 204	3		
	AGRI 2830 Adv. Animal Nutrition	ASCI 399	1		
	AGRI 2400 Forage, Pasture & Grassland Production; & 2410 Lab	AGRO 240	4		
NECC General Education Requirement -- select one Count as free elective for UNL			3		
	PSYC 1810 Introduction to Psychology	PSYC 181	3		
	SOCI 1010 introduction to Sociology	SOCI 101	3		
Total				61-63	61-63

Revised 3/31/2011

Northeast Community College and University of Nebraska-Lincoln
CASNR A to B Transfer Agreement
Associate of Science Degree in Agriculture- College Transfer
leading to a Bachelor of Science degree in Animal Science

Subject Area	Course Title	UNL Equivalent	Credit Hours	NECC Credits	UNL Credits
Mathematics and Analytical Skills				6-8	5-10
<i>Mathematics, (select one)</i>	MATH 1200 Algebra and Trigonometry	MATH 103	5		2
	MATH2050 Applied Business Calculus	MATH 104	3		
	MATH2000 Analytic Geom. & Calculus	MATH 106	5		
	<i>Statistics</i> MATH 2030 Introduction to Statistics	STAT 218	3		
Note: Proficiency at the college algebra level must be demonstrated either by a placement exam or through course work. 3 cr. Hr. earned in MATH 1200 will be free electives in the Bachelor of Science degree in Agricultural Science.					
Communication				9	9
<i>Written Communication</i>	ENGL 1010 English Composition I	ENGL 150	3		
<i>Oral Communication, (select one)</i>	SPCH 1110 Public Speaking	COMM209	3		
	SPCH 1010 Fundamentals of Communication	COMM 109	3		
<i>Communication & Interpersonal Skills</i>	AGRI 1420 Interpersonal Skills	ALEC 102	3		
Natural Sciences				14	14
<i>Biology</i>	BIOS 1010 General Biology	BIOS 101, BIOS 101 L	4		
<i>Chemistry</i>	CHEM 1140 General Chemistry	CHEM 109	5		4 (GNCR 1)
<i>Physics</i>	PHYS 1130 Introduction to Physics w/Lab	PHYS 141	5		
Economics, Humanities and Social Science				15	15
Economics ACE Category 6	AGRI 1410 Introduction to Econ. of Agriculture	AECN 141	3		
ACE Category 5(select one)			3		
	ENGL 2100 Introduction to Literature	ENGL 180			
	ENGL 2120 Introduction to Drama	ENGL 201A			
	ENGL 2140 Introduction to Shakespeare	ENGL 230A			
	ENGL 2150 Survey of American Literature I	ENGL 361A			
	ENGL 2160 Survey of American Literature II	ENGL 361B			
	ENGL 2200 Survey of English Literature I	ENGL 230A			
	ENGL 2210 Survey of English Literature II	ENGL 231			
	HIST 1030 European Civilization I	HIST 100			
	HIST 1040 European Civilization II	HIST 101			
	HIST 2010 American History I	HIST 201			
	HIST 2020 American History II	HIST 202			
ACE Category 7 (select one)			3		
	ARTS 2000 Art History Ancient to Gothic	AHIS 101			
	ARTS 2010 Art History Renaissance to Present	AHIS 102			
	ENGL 2030 Creating Poetry I	ENGL 253			
	ENGL 2050 Creating Stories I	ENGL 252			
	MUSC 1550 Music in Western Culture	MUNM 276G			
	SPCH 2050 Oral Interpretation of Literature	COMM 205			
ACE Category 8 (select one)			3		
	ECON 2110 Principles of Macroeconomics	ECON 211			
	ECON 2120 Principles of Microeconomics	ECON 212			
	POLS 1000 American Government	POLS 100			

APPENDIX 5

ACE Category 9 (select one)		3		
	AGRI 1290 International Agriculture & Agribusiness	AGRI 282		
	GEOG 1020 World Regional Geography	GEOG 272		
	HIST 1050 World History I	HIST 120		
	HIST 1060 World History II	HIST 121		
	SOCI 1100 Introduction to Family Living	SOCI225		
	SOCI 2150 Issues of Unity & Diversity	SOCI 217		
Major Electives (select 11 Cr. Hr.)			11	7-8
	AGRI 1010/1340 Animal Science & Lab	ASCI100	4	4
	AGRI 1230 Feeds & Feeding	ASCI***@	3	3
	AGRI 1230 and (2280, 2820,2840,2260, or 2850)	ASCI 250 &	3	
		ASCI 399	2	3
	AGRI 1320 Animal Reproduction Physiology	ASCI 399	3	1
	AGRI 2040 Livestock Production I	ASCI 250	3	3
	Livestock Selection & Carcass Judging I w/lab	ASCI 200	see advisor	3
	AGRI 1090,1100			
	Livestock Selection & Carcass Judging III w/lab	ASCI 300B	see advisor	2
	AGRI 2180, 2190			
Supporting Courses			5	3
Note: These hours will count as Gen. Ed. Requirements for NECC and electives for UNL				
Technology	AGRI 1000 Computer Applications AND AGRI 2000 Integrated Spreadsheet Applications	AGRI 271	5	(3)
NECC General Education Requirement -- select one			3	
Count as Economics, Humanities and Social Science elective for UNL				3
	PSYC 1810 Introduction to Psychology	PSYC 181	3	
	SOCI 1010 introduction to Sociology	SOCI 101	3	
Total			63-65	56-62

Revised 3/31/2011

Northeast Community College and University of Nebraska-Lincoln

CASNR A to B Transfer Agreement

Associate of Science Degree in Agriculture- College Transfer

leading to a Bachelor of Science Degree in Food Science and Technology (FDST) or Food Technology for Companion Animals (FTCA)

Subject Area	Course Title	UNL Equivalent	Credit Hours	NECC Credits	UNL Credits
Mathematics and Analytical Skills				11-13	8-11
<i>Mathematics (select one)</i>	MATH 1200 Algebra and Trigonometry	MATH 103*	5		2
	MATH2050 Applied business Calculus (ACE 3) or	MATH 104	3		
	MATH2000 Analytic Geom. & Calculus (ACE 3)	MATH 106	5		
<i>Statistics (select one)</i>	MATH 2030 Introduction to Statistics (ACE 3) or	STAT 218	3		
	BSAD 2030 Business Statistics (ACE 3)	ECON 215	3		
	*Note: Proficiency at the college algebra level must be demonstrated either by a placement exam or through course work. 3 cr. Hr. earned in MATH 1200 will be free electives in the Bachelor of Science degree in Agricultural Science.				
Communication				9	9
<i>Written Communication</i>	ENGL 1010 English Composition I (ACE 1)	ENGL 150	3		
	ENGL 2070 Technical Communications	JGEN 200/300	3		
<i>Oral Communication (select one)</i>	SPCH 1110 Public Speaking (ACE 2) or	COMM209	3		
	SPCH 1010 Fundamentals of Communication (ACE 2)	COMM 109	3		
Natural Sciences				27	27
	BIOS 1010 General Biology (ACE 4) ¹	BIOS 101/ 101L	4		
	BIOS 1050, 1090, or 2030 ¹	BIOS elective	4		
	PHYS 1130 Intro to Physics w/Lab (ACE 4)	PHYS 141	5		
	CHEM 1140 General Chemistry I (ACE 4)	CHEM 109	5	5	4(GNCR 1)
	CHEM 1160 General Chemistry II (ACE 4)	CHEM 110*	5	5	4(GNCR 1)
	CHEM 2040 Organic Chemistry I	CHEM 251/253	4		
¹ FTCA students may use this Biological sequence to fulfill the specified UNL requirement of BIOS 102 and 103.					
*NECC course is not an exact equivalent to the UNL course.					
Humanities, Economics and Social Science				18	18
(ACE 6) Economics (select one)	AGRI 1410 Introduction to Econ. of Agriculture	AECN 141	3		
	ECON 2110 Principles of Macroeconomics	ECON 211	3		
(ACE 5) Humanities and Historical Perspectives (select one)	ENGL 2100 Introduction to Literature	ENGL 180	3		
	ENGL 2120 Introduction to Drama	ENGL201A	3		
	ENGL 2150 Survey American Literature I	ENGL361A	3		
	ENGL 2160 Survey American Literature II	ENGL361B	3		
	ENGL 2200 Survey of English Literature I	ENGL230	3		
	ENGL 2210 Survey of English Literature II	ENGL231	3		
	ENGL/THEA 2140 Intro to Shakespeare	ENGL230A	3		
	HIST 1030 European Civilization I	HIST100	3		
	HIST 1040 European Civilization II	HIST101	3		
	HIST 2010 American History I	HIST201	3		
	HIST 2020 American History II	HIST202	3		
(ACE 7) Arts (select one)	ARTS 2000 Intro Art Hist & Crit I	AHIS 101	3		
	ARTS 2010 Intro Art Hist & Crit II	AHIS 102	3		
	ENGL 2030 or 2040 Creating Poetry I or II	ENGL253	3		
	ENGL 2050 or 2060 Creating Stories I or II	ENGL252	3		
	MUSC 1550 Music in Western Culture	MUNM 276G	3		
	SPCH 2050 Oral Interpret Of Literature	COMM205	3		
(ACE 8) Ethical Principles (select one)	ECON 2110 Principles of Macroeconomics	ECON211	3		
	ECON 2120 Principles of Microeconomics	ECON212	3		
	POLS 1000 American Government	POLS100	3		
(ACE 9) Global Awareness (select one)	GEOG 1020 World Regional Geography	GEOG272	3		
	HIST 1050 World History I	HIST120	3		

APPENDIX 8

	HIST 1060 World History II	HIST121	3	
	SOCI 2150 Issues of Unity and Diversity	SOCI217	3	
	SOCI 1100 Intro to Family Living	SOCI225	3	
Humanities, Economics and Social Science Elective²	Select one additional course from any ACE area 5, 7, 8 or 9		3	
² FTCA students may take VTEC 1120 and 1121, which transfer to UNL as ASCI 240 (4 credits), and take the Humanities, Economics and Social Science elective at UNL.				
Total Credits:			65-67	62-65

Revised 3/31/2011

Northeast Community College and University of Nebraska-Lincoln
CASNR A to B Transfer Agreement
Associate of Science Degree in Agriculture- College Transfer
leading to a Bachelor of Science degree in Grazing Livestock Systems

Subject Area	Course Title	UNL Equivalent	Credit Hours	NECC Credits	UNL Credits
Mathematics and Analytical Skills				6-8	5-10
<i>Mathematics, (select one)</i>	MATH 1200 Algebra and Trigonometry	MATH 103	5		2
	MATH2050 Applied Business Calculus	MATH 104	3		
	MATH2000 Analytic Geom. & Calculus	MATH 106	5		
	<i>Statistics</i> MATH 2030 Introduction to Statistics	STAT 218	3		
Note: Proficiency at the college algebra level must be demonstrated either by a placement exam or through course work. 3 cr. Hr. earned in MATH 1200 will be free electives in the Bachelor of Science degree in Agricultural Science.					
Communication				9	9
<i>Written Communication</i>	ENGL 1010 English Composition I	ENGL 150	3		
<i>Oral Communication, (select one)</i>	SPCH 1110 Public Speaking	COMM209	3		
	SPCH 1010 Fundamentals of Communication	COMM 109	3		
<i>Communication & Interpersonal Skills</i>	AGRI 1420 Interpersonal Skills	ALEC 102	3		
Natural Sciences				9	9
<i>Biology</i>	BIOS 1010 General Biology	BIOS 101, BIOS 101 L	4		
<i>Chemistry</i>	CHEM 1140 General Chemistry	CHEM 109	5		4 (GNCR 1)
Economics, Humanities and Social Science				15	15
Economics ACE Category 6	AGRI 1410 Introduction to Econ. of Agriculture	AECN 141	3		
ACE Category 5(select one)			3		
	ENGL 2100 Introduction to Literature	ENGL 180			
	ENGL 2120 Introduction to Drama	ENGL 201A			
	ENGL 2140 Introduction to Shakespeare	ENGL 230A			
	ENGL 2150 Survey of American Literature I	ENGL 361A			
	ENGL 2160 Survey of American Literature II	ENGL 361B			
	ENGL 2200 Survey of English Literature I	ENGL 230A			
	ENGL 2210 Survey of English Literature II	ENGL 231			
	HIST 1030 European Civilization I	HIST 100			
	HIST 1040 European Civilization II	HIST 101			
	HIST 2010 American History I	HIST 201			
	HIST 2020 American History II	HIST 202			
ACE Category 7 (select one)			3		
	ARTS 2000 Art History Ancient to Gothic	AHIS 101			
	ARTS 2010 Art History Renaissance to Present	AHIS 102			
	ENGL 2030 Creating Poetry I	ENGL 253			
	ENGL 2050 Creating Stories I	ENGL 252			
	MUSC 1550 Music in Western Culture	MUNM 276G			
	SPCH 2050 Oral Interpretation of Literature	COMM 205			
ACE Category 8 (select one)			3		
	ECON 2110 Principles of Macroeconomics	ECON 211			
	ECON 2120 Principles of Microeconomics	ECON 212			
	POLS 1000 American Government	POLS 100			

APPENDIX 6

ACE Category 9 (select one)			3	
	AGRI 1290 International Agriculture & Agribusiness	AGRI 282		
	GEOG 1020 World Regional Geography	GEOG 272		
	HIST 1050 World History I	HIST 120		
	HIST 1060 World History II	HIST 121		
	SOCI 1100 Introduction to Family Living	SOCI225		
	SOCI 2150 Issues of Unity & Diversity	SOCI 217		
Agricultural Sciences			12	12
Production & Production Management (select up to 12 credit hours)				
	AGRI 1010/1340 Animal Science & Lab	ASCI 100	4	4
	AGRI 1030 & 1040 Intro to Soil Science and Lab	AGRO 153	4	4
	AGRI 2400 & 2410 Forage Production and Lab	AGRO 240	4	4
	AGRI 1020 Intro to Farm Management	AECN 201	4	4
	AGRI 2870 Agricultural Law	AECN 256	3	3
Supporting Courses			5	3
Note: These hours will count as Gen. Ed. Requirements for NECC and electives for UNL				
Technology	AGRI 1000 Computer Applications AND AGRI 2000 Integrated Spreadsheet Applications	AGRI 271	5	(3)
NECC General Education Requirement -- select one			3	
Count as Economics, Humanities and Social Science elective for UNL				3
	PSYC 1810 Introduction to Psychology	PSYC 181	3	
	SOCI 1010 introduction to Sociology	SOCI 101	3	
Total			59-61	56-61

Revised 3/31/2011

College of Agricultural Sciences and Natural Resources
Bachelor of Science Degree in Agricultural Education-Teaching Option
1+2+1 Transfer Program with Northeast Community College and Wayne State College

UNL			Northeast Community College				Wayne State College			
Course No.	Course Title	Required Credits	Course No.	Course Title	Required Credits	Course No.	Course Title	Required Credits		
ACE Student Learning Outcomes - Except where noted, choose one course from each ACE Outcome.										
ACE Outcome 1										3
ENGL 150	Writing: Rhetoric	3				ENG 102	Composition Skills	3		
ACE Outcome 2										3
COMM 109	Fundamentals of Human Communication	3				CNA 100	Principles of Human Communication	3		
COMM 209	Public Speaking	3				CNA 252	Public Address	3		
Communication & Interpersonal Skills										3
COMM 283	Interpersonal Communication	3				CNA 210	Interpersonal Communication	3		
ACE Outcome 3										6
STAT 218	Introduction to Statistics	3				MAT 180	Applied Probability and Statistics	3		
MATH 203	Contemporary Math	3				MAT 110	Topics & Ideas in Math	3		
ACE Outcome 4										8
AGRO 131	Plant Science	3	AGRI 1131	Plant Science	3	3				
AGRO 132	Plant Science Lab	1	AGRI 1132	Plant Science Lab	1	1				
CHEM 109	General Chemistry I	4					CHE 106	General Chemistry I		4
PHYS 141	Elements of General Physics I	4/waive 1					PHYS 201/321	General Physics I/Physics Laboratory I		4
Select no more than one course from each of the following 5 areas, except where noted, for a total of 15 hrs.										12
ACE Outcome 5										3
ENGL 180	Introduction to Literature	3					ENG 150	Topics in Literature	3	
HIST 201	America to 1877	3					HIS 180	American Experience I	3	
HIST 202	America after 1877	3					HIS 181	American Experience II	3	
ACE Outcome 6										3
ECON 211	Principles of Macroeconomics	3					ECO 202	Principles of Macroeconomics	3	
ECON 212	Principles of Microeconomics	3					ECO 203	Principles of Microeconomics	3	
ACE Outcome 7										3
AHIS 101	Introduction to Art History and Criticism I	3					ART 344	Art History I	3	
AHIS 102	Introduction to Art History and Criticism II	3					ART 345	Art History II	3	
ENGL 252	Introduction to Writing of Fiction	3					ENG 203	Fiction Workshop	3	
ENGL 253	Introduction to Writing of Poetry	3					ENG 202	Poetry Workshop	3	
THEA 112G	Introduction to Theatre	3					CNA 101	Introduction to Theatre	3	
ACE Outcome 8										3
ECON 211	Principles of Macroeconomics	3					ECO 202	Principles of Macroeconomics	3	
ECON 212	Principles of Microeconomics	3					ECO 203	Principles of Microeconomics	3	
POLS 100	Power and Politics In America	3					POS 100	American National Government	3	
CSCE 230	Computer Organization	3					CSC 320	Computer Organization and Architecture	3	
ACE Outcome 9										
SOCI 217	Nationality and Race Relations	3	SOCI 2150	Issues of Unity & Diversity	3	3				
Outcome 10 - Must be taken at UNL.										
Agricultural Sciences:										
Research and Applied Technology:										
AGRI2xx	Agricultural Sciences 200 level elective	3	AGRI 2450	Modern Technologies in Agriculture	3	3				
Policy:										
Management:										
AGRO 240	Forage Crop and Range Management	4	AGRI 2400/2410	Forage, Pasture and Grassland Production/Lab	4	4				
AECN 201	Farm and Ranch Management	4	AGRI 1020	Introduction to Farm Management Records	4	4				
AGRO 204	Resource-Efficient Crop Management	3	AGRI 2460	Resource Efficient Crop Management	3	3				

Production:									
ASCI 250	Animal Management	3	AGRI 2040	Livestock Production I	3	3			
Natural Resources:									
AGRO 153	Soil Resources	4	AGRI 1030/1040	Introduction to Soil Science/Introduction to Soil Science Lab	4	4			
AGRO 2xx	Soil Nutrient Relationships	2	AGRI 2200	Advanced Fertilizers	2	2			
Food System:									
AECN 225	Agribusiness and Food Products Marketing	3	AGRI 1310	Agribusiness Management	3	3			
Educational Courses:									
									21
ALEC 134/135	Agricultural Education, Journalism, and Leadership Careers and Early Field Experience in Agricultural Leadership, Education and Communication	3					EDU 150	Professional Education in a Diverse Society	3
EDPS 362/457	Learning in the Classroom/Learning and Motivation Principles for Secondary Teaching	3					EDU 250	Human Development & Cognition	3
SPED 401b	Accomodating Exceptional Learners in the Secondary School Classroom	3					SPD 302	Inclusive Practices for General & Special Educators	3
ALEC 242	Construction Technology	3					ITE 308	Construction Technology	3
ALEC 308	Laboratory Instruction and Management	3					ITE 326	Technical Lab Design and Management	3
ALEC 205	Welding Technology	3					ITE 330	Welding Theory & Fabrication	3
ALEC 201	Electricity/Electronics	3					ITE 333	Electronics & Electricity	3
Total Credits at UNL		89/waived 1	Total Credits from Northeast Community College			33	Total Credits from Wayne State College		56
Educational Coursework at UNL									23
ALEC 234	Planning Leadership and Experience Programs	3							
	Methods of Instruction for Secondary								
ALEC 405/405L	Agriscience Education & Lab	4							
ALEC 413	Program Development	3							
ALEC 431	Student Teaching	12							
ALEC 494	Undergraduate Seminar in Agricultural Education	1							
Free Electives (Must include a 3 hr. policy course from: AECN 265, 276, 346, 376; NRES 323; or POLS 235, 236)									8

Revised 9/14 (Course title changes and course number changes)



**2016-17 Transfer Guide – Associate of Science Degree
Suggested Program of Study for a B.S. in Agribusiness
College of Agricultural Sciences and Natural Resources (CASNR)**

IMPORTANT NOTES:

- A course may be used to satisfy only one graduation requirement. Likewise, a course may only be used to satisfy one ACE requirement.
- UNL will accept a maximum of 60 credit hours (90 quarter credits) from a community college.
- Courses with a prefix of AGRI are not offered on the Lincoln campus.

Written Communication**9.0 Qtr Credits****Take this course to fulfill UNL's ACE 1 requirement:**

Composition I – ENGL1010	UNL ENGL150	4.5
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Take this course to fulfill the second writing requirement:

Composition II – ENGL1020	UNL ENGL151	4.5
Technical Writing – ENGL2560	UNL JGEN200	4.5
Bus. Comm. Strategies – OFFT2120	UNL BSAD220	4.5

Speech Communication**4.5 Qtr Credits****Take this course to fulfill UNL's ACE 2 requirement:**

Fund of Human Comm – SPCH1090	UNL COMM109	4.5
Public Speaking – SPCH1110	UNL COMM209	4.5
Business & Professional Comm – SPCH2810	UNL COMM286	4.5

Mathematics/Logic**9.0 Qtr Credits****Take this course to fulfill UNL's ACE 3 requirement:**

Elementary Statistics – MATH1180	UNL STAT218	4.5
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Take one of the following to fulfill the second math course:

Applied Calculus – MATH1400	UNL MATH104	4.5
Calculus I – MATH1600	UNL MATH106	7.5

NOTE:

- If your test scores indicate you need to take MATH1150, 1200 or 1300 prior to the courses above, they will count as electives at UNL and toward your A.S. degree.

This transfer guide was developed by SCC in consultation with UNL advising representatives, but is not meant to be a substitute for advising. To ensure you have the most accurate information to aid in degree completion and transfer requirements, please schedule an appointment with your advisor. Courses and equivalencies are subject to change. Refer to www.transferology.com for the most accurate information regarding the transfer of courses.

Natural Science with Lab**12.0 Qtr Credits****Take two of the following:**

General Biology – BIOS1010/L	UNL BIOS101/L	6.0
General Botany – BIOS1090/L	UNL BIOS109	6.0
Intro to Zoology – BIOS1120/L	UNL BIOS112/L	6.0
Biology I – BIOS1400/L	UNL LIFE120/L	6.0
Biology II – BIOS1410/L	UNL LIFE121/L	6.0
Chem & the Citizen – CHEM1050/L	UNL CHEM105	6.0
General Chemistry I – CHEM1090/L	UNL CHEM109	6.0
Elem. General Physics I – PHYS1410	UNL PHYS141	7.5
General Physics I – PHYS1420	UNL PHYS142	7.5

NOTES:

- CASNR requires courses from 2 different areas (i.e. cannot take 2 BIOS courses.)
- The Agribusiness major through CASNR requires students to choose an option (livestock industry, food products marketing, etc.) Some options have specific science requirements. Refer to Transferology for details. www.transferology.com
- Cannot receive credit for CHEM1050 and CHEM1090.
- Cannot receive credit for PHYS1410 and 2110.

Humanities**4.5 Qtr Credits****Take one of the following to fulfill UNL's ACE 7 requirement:**

Intro to Art History I – ARTS1050	UNL AHIS101	4.5
Intro to Art History II – ARTS1060	UNL AHIS102	4.5
Intro to Creative Writing – ENGL1510	UNL ENGL170	4.5
Fiction Writing – ENGL2520	UNL ENGL252	4.5
Poetry Writing – ENGL2530	UNL ENGL253	4.5
Contemporary Arts & Ideas – HUMS1200	UNL MUNM201	4.5
Intro to Music – MUSC1010	UNL MUNM276G	4.5
Intro to World Music–MUSC2800	UNL MUNM280	4.5
History of Rock Music–MUSC2870	MUSC287	4.5
Oral Performance of Lit – SPCH2050	COMM205	4.5
Intro to Theatre – THEA1010	UNL THEA112G	4.5

APPENDIX 1

Social Sciences

4.5 Qtr Credits

Take the following course to fulfill UNL's ACE 6 requirement:

Macroeconomics – ECON2110	UNL ECON211	4.5
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Culture and Gender Studies

4.5 Qtr Credits

Take 1 of the following to fulfill UNL's ACE 9 requirement:

Gen. Anthropology – ANTH1120	UNL ANTH110	4.5
Intro to Women's Lit – ENGL2150	UNL ENGL215	4.5
African American Lit – ENGL2440	UNL ENGL244	4.5
Native American Lit – ENGL2450	UNL ENGL245N	4.5
Latino/a & Latin Am. Lit – ENGL2460	UNL ENGL345D	4.5
Asian American Lit – ENGL2470	UNL ENGL245A	4.5
World Reg. Geography – GEOG1420	UNL GEOG272	4.5
Survey of Asian History – HIST1820	UNL HIST282	4.5
World History to 1500 CE – HIST2100	UNL HIST120	4.5
World History since 1500 CE – HIST2110	UNL HIST121	4.5
Intro to World Music – MUSC2800	UNL MUNM280	4.5
Intro to Comparative Religions – PHIL2610	UNL RELG108	4.5
International Relations – POLS1600	UNL POLS160	4.5
Women in Contemporary Society - SOCI2000	UNL SOCI200	4.5
Issues of Unity and Diversity - SOCI2150	UNL SOCI217	4.5
Intercultural Comm – SPCH2110	UNL COMM211	4.5

Electives

42.0 Qtr Credits

The following are suggested electives. Consult with an advisor to discuss options. Because UNL will accept a maximum of 90 quarter credits (60 semester hours,) you may need to wait and take some of these courses at UNL.

Additional Math:

If your test scores placed you into the following courses, they will count as electives at UNL and toward your A.S. degree:

College Algebra- MATH1150	UNL MATH101	4.5
Trigonometry – MATH1200	UNL MATH102	4.5
Pre-calculus – MATH1300	UNL MATH103	7.5

Take one of the following to fulfill UNL's ACE 5 requirement:

Modern Fiction – ENGL2050	UNL ENGL205	4.5
Intro to Literature – ENGL2100	UNL ENGL180	4.5
Intro to Shakespeare – ENGL2140	UNL ENGL230A	4.5
Intro to Women's Lit – ENGL2150	UNL ENGL215	4.5
Children's Literature – ENGL2160	UNL ENGL216A	4.5
American Lit After 1865 – ENGL2210	UNL ENGL261	4.5
British Lit Post-1800 – ENGL2200	UNL ENGL231	4.5
Science Fiction Lit – ENGL2220	UNL ENGL206	4.5
African American Lit – ENGL2440	UNL ENGL244	4.5
Native American Lit – ENGL2450	UNL ENGL245N	4.5
Latino/a & Latin American Lit - ENGL2460	UNL ENGL345D	4.5
Asian American Lit – ENGL2470	UNL ENGL245A	4.5
Western Tradition I – HIST1000	UNL HIST130	4.5
Western Tradition II – HIST1010	UNL HIST131	4.5
American History I – HIST2010	UNL HIST110	4.5
American History II – HIST2020	UNL HIST111	4.5
History of Rome – HIST2510	UNL HIST210	4.5
Intro to Philosophy – PHIL1010	UNL PHIL101	4.5
Bioethics – PHIL2130	UNL PHIL213	4.5
Philosophy of Religion – PHIL2650	UNL PHIL265	4.5

Take one of the following to fulfill UNL's ACE 8 requirement:

Intro to Philosophy – PHIL1010	UNL PHIL101	4.5
Applied Ethics – PHIL1060	UNL PHIL106	4.5
Bioethics – PHIL2130	UNL PHIL213	4.5
Environmental Ethics – PHIL2250	UNL PHIL225	4.5
American Government – POLS1000	UNL POLS100	4.5

Additional suggested electives:

*Microeconomics – ECON2120	UNL ECON212	4.5
Prin. of Accounting I – ACCT1200	UNL ACCT201	4.5
Prin. of Accounting II – ACCT1210	UNL ACCT202	4.5
Livestock Mgmt – AGRI1141	UNL ASCI250 <i>CASNR Elective</i>	6.0
Soils & Plant Nutrition – AGRI1153	UNL AGRO153 <i>CASNR Elective</i>	6.0
Live Animal Selection & Carcass Evaluation – AGRI1257	UNL ASCI200 <i>CASNR Elective</i>	4.5
Introduction to Meats – AGRI1258	UNL ASCI210 <i>CASNR Elective</i>	4.5
Personal Finance – ECON1200	UNL FINA260 <i>CBA Elective</i>	4.5

NOTE:

- *Microeconomics is a pre-requisite for an upper-level economics course you will take at UNL, so be sure to choose it as one of the electives you take for your A.S. degree.*



**2016-17 Transfer Guide – Associate of Science Degree
Suggested Program of Study for a B.S. in Agronomy
College of Agricultural Sciences and Natural Resources (CASNR)**

IMPORTANT NOTES:

- A course may be used to satisfy only one graduation requirement for the A.S. degree. Likewise, a course may only be used to satisfy one ACE requirement.
- UNL will accept a maximum of 60 credit hours (90 quarter credits) from a community college.
- CASNR policy states that no more than 10 semester hours (15 quarter hours) of below C grades are transferable from colleges outside the NU system. Grades below C can only be applied to free electives.
- Courses that have a prefix of AGRI are not offered on the Lincoln campus.

Written Communication**9.0 Qtr Credits****Take this course to fulfill UNL's ACE 1 requirement:**

Composition I – ENGL1010	UNL ENGL150	4.5
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Take one of these to fulfill the communication elective:

Composition II – ENGL1020	UNL ENGL151	4.5
Technical Writing – ENGL2560	UNL JGEN200	4.5

Speech Communication**4.5 Qtr Credits****Take one of these to fulfill UNL's ACE 2 requirement:**

Fund of Human Comm – SPCH1090	UNL COMM109	4.5
Public Speaking – SPCH1110	UNL COMM209	4.5
Business and Professional Comm. – SPCH2810	UNL COMM286	4.5

Mathematics/Logic (UNL ACE 3)**9.0 Qtr Credits****Take two of the following:**

Elementary Stats – MATH1180	UNL STAT218	4.5
Trigonometry – MATH1200	UNL MATH102	4.5
Pre-Calculus – MATH1300	UNL MATH103	7.5
*Applied Calculus – MATH104	UNL MATH104	4.5
*Calculus I – MATH1600	UNL MATH106	7.5
Calculus II – MATH1700	UNL MATH107	7.5

NOTES:

- *Students pursuing the Business Option should take MATH1400 as it is required for some upper-level business courses.*
- *Students pursuing the Research Careers Option should take MATH1600 or MATH1400 and MATH1180*
- *If your test scores indicate you need to take MATH1150, it will count as an elective at UNL and toward the AS degree.*
- *Credit cannot be received for both MATH1400 & 1600.*

Natural Science with Lab (UNL ACE 4)**12.0 Qtr Credits****Take both of the following:**

General Chemistry I – CHEM1090/L	UNL CHEM109	6.0
General Chemistry II – CHEM1100/L	UNL CHEM110	6.0

Humanities**4.5 Qtr Credits****Take one of the following to fulfill UNL's ACE 7 requirement:**

Intro to Art History I – ARTS1050	UNL AHIS101	4.5
Intro to Art History II – ARTS1060	UNL AHIS102	4.5
Intro to Creative Writing – ENGL1510	UNL ENGL170	4.5
Fiction Writing – ENGL2520	UNL ENGL252	4.5
Poetry Writing – ENGL2530	UNL ENGL253	4.5
Contemporary Arts & Ideas – HUMS1200	UNL MUNM201	4.5
Intro to Music – MUSC1010	UNL MUNM276G	4.5
Intro to World Music – MUSC2800	UNL MUNM280	4.5
History of Rock Music – MUSC2870	UNL MUNM287	4.5
Oral Performance of Lit – SPCH2050	UNL COMM205	4.5
Intro to Theatre – THEA1010	UNL THEA112G	4.5

Social Sciences**4.5 Qtr Credits****Take one of the following to fulfill UNL's ACE 6 requirement:**

Prin. of Macroecon – ECON2110	UNL ECON211	4.5
Prin. of Microecon – ECON2120	UNL ECON2120	4.5

APPENDIX 3

Culture and Gender Studies

4.5 Qtr Credits

Take one of the following to fulfill UNL's ACE 9 requirement:

Gen Anthropology – ANTH1120	UNL ANTH110	4.5
Intro to Women's Lit–ENGL2150	UNL ENGL215	4.5
African American Lit–ENGL2440	UNL ENGL2440	4.5
Native American Lit–ENGL2450	UNL ENGL2450	4.5
Latino/a & Latin American Literature – ENGL2460	UNL ENGL345D	4.5
Asian American Lit – ENGL2470	UNL ENGL245A	4.5
World Regional Geography – GEOG1420	UNL GEOG272	4.5
Asian History – HIST1820	UNL HIST282	4.5
World History to 1500 CE – HIST2100	UNL HIST120	4.5
World History since 1500 CE – HIST2110	UNL HIST121	4.5
Intro to World Music–MUSC2800	UNL MUNM280	4.5
Intro to Comparative Religions – PHIL2610	UNL RELG108	4.5
Int'l Relations – POLS1600	UNL POLS160	4.5
Women in Society – SOCI2000	UNL SOCI200	4.5
Issues of Unity and Diversity – SOCI2150	UNL SOCI217	4.5
Intercultural Comm – SPCH2110	UNL COMM211	4.5

Electives

42.0 Qtr Credits

The following are suggested electives. Consult with an advisor to discuss options. Because UNL will accept a maximum of 90 quarter credits (60 semester hours,) you may need to wait and take some of these courses at UNL.

Take one of the following to fulfill UNL's ACE 5 requirement:

Modern Fiction – ENGL2050	UNL ENGL205	4.5
Intro to Literature – ENGL2100	UNL ENGL180	4.5
Intro to Shakespeare – ENGL2140	UNL ENGL230A	4.5
Intro to Women's Lit - ENGL2150	UNL ENGL215	4.5
Children's Literature – ENGL2160	UNL ENGL216A	4.5
American Lit After 1865 – ENGL2210	UNL ENGL261	4.5
British Lit Post-1800 – ENGL2200	UNL ENGL231	4.5
Science Fiction Lit – ENGL2220	UNL ENGL206	4.5
African American Lit – ENGL2440	UNL ENGL244	4.5
Native American Lit – ENGL2450	UNL ENGL245N	4.5
Latino/a & Latin American Lit. – ENGL2460	UNL ENGL345D	4.5
Asian American Lit – ENGL2470	UNL ENGL245A	4.5
Western Tradition I – HIST1000	UNL HIST130	4.5
Western Tradition II – HIST1010	UNL HIST131	4.5
American History I – HIST2010	UNL HIST110	4.5
American History II – HIST2020	UNL HIST111	4.5
History of Rome – HIST2510	UNL HIST210	4.5
Intro to Philosophy – PHIL1010	UNL PHIL101	4.5
Bioethics – PHIL2130	UNL PHIL213	4.5
Philosophy of Religion – PHIL2650	UNL PHIL265	4.5

Take one of the following to fulfill UNL's ACE 8 requirement:

*Prin. of Macroecon – ECON2110	UNL ECON211	4.5
Prin. of Microecon – ECON2120	UNL ECON212	4.5
Intro to Philosophy – PHIL1010	UNL PHIL101	4.5
Applied Ethics – PHIL1060	UNL PHIL1060	4.5
Bioethics – PHIL2130	UNL PHIL213	4.5
Environmental Ethics – PHIL2250	UNL PHIL2250	4.5
American Government – POLS1000	UNL POLS100	4.5

Additional Math:

If your test scores indicate you need to take College Algebra prior to the math courses on p. 1, it will count as an elective:

College Algebra	MATH1150	4.5
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Additional Courses for All Options:

Agribusiness Careers – AGRI1123	UNL AGRO201	4.5
Crop & Food Science – AGRI1131	UNL AGRO131	4.5
*Livestock Mgmt – AGRI1141	UNL ASCI250	6.0
Soils & Plant Nutrition – AGRI1153	UNL AGRO153	6.0
Range Management – AGRI2240	UNL AGRO240	6.0
General Botany – BIOS1090L	UNL BIOS109	6.0
Elem. Gen. Physics I – PHYS1410	UNL PHYS141	7.5

NOTE:

- AGRI1141 is a pre-requisite for AGRI2240 at SCC and will transfer to UNL as an elective.

Business Option:

Choose no more than 2 of the following:

Prin. of Accounting I – ACCT1200	UNL ACCT201	4.5
Prin. of Accounting II – ACCT1210	UNL ACCT202	4.5
Personal Finance – ECON1200	UNL FINA260	4.5

Research Careers Option:

Organic Chem I – CHEM2510/L	UNL CHEM2510/2530	6.0
Elem. Gen. Physics II – PHYS1420	UNL PHYS142	7.5

Soil Science Option:

Physical Geology – GEOL1010/L	UNL GEOL101	6.0
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This transfer guide was developed by SCC in consultation with UNL advising representatives, but is not meant to be a substitute for advising. To ensure you have the most accurate information to aid in degree completion and transfer requirements, please schedule an appointment with your advisor. Courses and equivalencies are subject to change. Refer to www.transferology.com for the most accurate information regarding the transfer of courses.



2016-17 Transfer Guide – Associate of Science Degree-Academic Transfer Program Suggested Program of Study for a B.S. in Animal Science through the College of Agricultural Sciences and Natural Resources (CASNR)

IMPORTANT NOTES:

- A course may be used to satisfy only one graduation requirement for the A.S. degree. Likewise, a course may only be used to satisfy one ACE requirement.
- UNL will accept a maximum of 60 credit hours (90 quarter credits) from a community college.
- Course information in [blue](#) are the UNL equivalents.
- Courses that have a prefix of AGRI are not offered on the Lincoln campus.

A. Written Communication

9.0 Qtr Credits**Take this course to fulfill UNL's ACE 1 requirement:**

Composition I (ENGL 150)	ENGL1010	4.5
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Take one of these to fulfill the communication elective:

Composition II (ENGL 151)	ENGL1020	4.5
Technical Writing (JGEN 200)	ENGL2560	4.5

B. Speech Communication

4.5 Qtr Credits**Take one of these to fulfill UNL's ACE 2 requirement:**

Fund. of Human Communication (COMM209)	SPCH1090	4.5
Public Speaking (COMM 209)	SPCH1110	4.5
Business and Professional Comm. (COMM 286)	SPCH2810	4.5

C. Mathematics/Logic (UNL ACE 3)

9.0 Qtr Credits**Take two of the following:**

Elementary Statistics* (STAT 218)	MATH1180	4.5
Trigonometry (MATH 102 for 2 credits)	MATH1200	4.5
Pre-calculus (MATH 103)	MATH1300	7.5
Applied Calculus* (MATH 104)	MATH1400	4.5
Calculus & Analytic Geometry I* (MATH106)	MATH1600	7.5
Calculus & Analytic Geometry II* (MATH 107)	MATH1700	7.5

NOTES:

- If your test scores indicate you need to take MATH1150, it will count as an elective at UNL.
- Take at least one course marked with an *.
- Credit cannot be received for both MATH1400 & 1600.
- Credit cannot be received for MATH1300 and also for MATH1150 and/or MATH1200.

D. Natural Science with Lab (UNL ACE 4)

12.0 Qtr Credits**Take the following:**

Take one of these*:		
General Biology (BIOS 101/L)	BIOS1010	6.0
Biology I (LIFE 120/L)	BIOS1400	6.0
General Genetics (BIOS 206)	BIOS2410	6.0

NOTE:

- Students pursuing the Animal Biology & Biotechnology Option or the Veterinary Animal Science Option will need to take BIOS1400 – NOT 1010. Students pursuing the other options can take either course.

Humanities

4.5 Qtr Credits**Take one of the following to fulfill UNL's ACE 7 requirement:**

Intro to Art History I (AHIS 101)	ARTS1050	4.5
Intro to Art History II (AHIS 102)	ARTS1060	4.5
Intro to Creative Writing (ENGL 170)	ENGL1510	4.5
Fiction Writing (ENGL 252)	ENGL2520	4.5
Poetry Writing (ENGL 253)	ENGL2530	4.5
Contemporary Arts & Ideas (MUNM 201)	HUMS1200	4.5
Introduction to Music (MUNM 276G)	MUSC1010	4.5
Introduction to World Music (MUNM 280)	MUSC2800	4.5
History of Rock Music (MUNM 287)	MUSC2870	4.5
Oral Performance of Literature(COMM 205)	SPCH2050	4.5
Intro to Theatre (THEA 122G)	THEA1010	4.5

F. Social Sciences

4.5 Qtr Credits**Take the following course to fulfill UNL's ACE 6 requirement:**

Principles of Macroeconomics(ECON 211)	ECON2110	4.5
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G. Culture & Gender Studies

4.5 Qtr Credits**Take 1 of the following to fulfill UNL's ACE 9 requirement:**

General Anthropology (ANTH 110)	ANTH1120	4.5
Introduction to Women's Literature (ENGL 215)	ENGL2150	4.5
African American Literature (ENGL 244)	ENGL2440	4.5
Native American Literature (ENGL 245N)	ENGL2450	4.5
Latino/a & Latin American Literature (ENGL 345D)	ENGL2460	4.5
Asian American Literature (ENGL 245A)	ENGL2470	4.5
World Regional Geography (GEOG 272)	GEOG1420	4.5
Survey of Asian History (HIST 282)	HIST1820	4.5
World History to 1500 CE (HIST 120)	HIST2100	4.5
World History since 1500 CE (HIST 121)	HIST2110	4.5
Introduction to World Music (MUNM 280)	MUSC2800	4.5
Intro to Comparative Religions (RELG 180)	PHIL2610	4.5
International Relations (POLS 160)	POLS1600	4.5
Women in Contemporary Society	SOCI2000	4.5
Issues of Unity and Diversity (SOCI 217)	SOCI2150	4.5
Intercultural Communication (COMM 211)	SPCH2110	4.5

H. Electives**42.0 Qtr Credits**

The following are suggested electives. Consult with an advisor to discuss options. Because UNL will accept a maximum of 90 quarter credits (60 semester hours,) you may need to wait and take some of these courses at UNL.

Take one of the following to fulfill UNL's ACE 5 requirement:

Modern Fiction (ENGL 205)	ENGL2050	4.5
Introduction to Literature (ENGL 180)	ENGL2100	4.5
Introduction to Shakespeare (ENGL 230A)	ENGL2140	4.5
Intro to Women's Literature (ENGL 215)	ENGL2150	4.5
Children's Literature (ENGL 216A)	ENGL2160	4.5
*American Literature After 1865(ENGL 261)	ENGL2210	4.5
*British Literature Post-1800 (ENGL 231)	ENGL2200	4.5
*Science Fiction Literature (ENGL 206)	ENGL2220	4.5
African American Literature (ENGL 244)	ENGL2440	4.5
Native American Literature (ENGL 245N)	ENGL2450	4.5
Latino/a & Latin American Lit. (ENGL345D)	ENGL2460	4.5
Asian American Literature (ENGL 245A)	ENGL2470	4.5
Western Tradition I (HIST 130)	HIST1000	4.5
Western Tradition II (HIST 131)	HIST1010	4.5
American History I (HIST 110)	HIST2010	4.5
American History II (HIST 111)	HIST2020	4.5
History of Rome (HIST 210)	HIST2510	4.5
Introduction to Philosophy (PHIL 101)	PHIL1010	4.5
Bioethics (PHIL 213)	PHIL2130	4.5
Philosophy of Religion (PHIL 265)	PHIL2650	4.5

*Not yet evaluated by UNL to see if it will fulfill ACE 5.

Take one of the following to fulfill UNL's ACE 8 requirement:

Principles of Microeconomics (ECON 212)	ECON2120	4.5
Introduction to Philosophy (PHIL 101)	PHIL1010	4.5
Applied Ethics (PHIL 106)	PHIL1060	4.5
Bioethics (PHIL 213)	PHIL2130	4.5
Environmental Ethics (PHIL 225)	PHIL2250	4.5
American Government (POLS 100)	POLS1000	4.5

Additional Science courses:

General Chemistry I (CHEM 109)	CHEM1090	6.0
General Chemistry II (CHEM 110)	CHEM1100	6.0
Organic Chemistry I (CHEM 251/253)	CHEM2510	6.0

NOTES:

- Students pursuing the Animal Biology & Biotechnology or Veterinary Animal Science Options must take all of these chemistry courses.
- For students pursuing the other options, it is strongly recommended that you take these courses if you are planning to attend graduate school within the life sciences. If not, you can take CHEM1050 instead of these three courses.

Additional Math:

If your test scores indicate you need to take College Algebra prior to the math courses on p. 1, it will count as an elective:

College Algebra (MATH 101)	MATH1150	4.5
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Animal Biology & Biotechnology Option:

Biology II (LIFE 121/L)	BIOS1410	6.0
Organic Chemistry II (LIFE 252/254)	CHEM2520	6.0
Elementary General Physics I (PHYS 141)	PHYS1410	7.5
Livestock Management (ASCI 250)	AGRI1141	6.0
Live Animal Selection & Carcass Eval. (ASCI 200)	AGRI1257	4.5
Introduction to Meats (ASCI 210)	AGRI1258	4.5

This transfer guide is not meant to be used as a substitute for advising. To ensure you understand the requirements for both your associate's degree as well as courses that will meet transfer requirements, please schedule an appointment with your advisor.

Business & Communications Option:

Live Animal Selection & Carcass Eval. (ASCI 200)	AGRI1257	4.5
Take 1 of these: Livestock Management (ASCI 250) Introduction to Equine Management (ASCI 252) Companion Animals (ASCI 251)	AGRI1141 AGRI1143 AGRI1177	6.0 4.5 4.5
Accounting I (ACCT 201)	ACCT1200	4.5
Personal Finance (FINA 260)	ECON1200	4.5
Introduction to Entrepreneurship(ENTR121)	ENTR1050	4.5

Companion Animal Science Option:

Companion Animals (ASCI 151)	AGRI1177	4.5
Elementary General Physics I (PHYS 141)	PHYS1410	7.5
Biology of Microorganisms (BIOS 111)	BIOS1110	6.0
Choose 3 of these: Accounting I (ACCT 201) Accounting II (ACCT 202) Personal Finance (FINA 260) Introduction to Entrepreneurship(ENTR121)	ACCT1200 ACCT1210 ECON1200 ENTR1050	4.5 4.5 4.5 4.5

Equine Science Option:

Introduction to Equine Management (ASCI 252)	AGRI1143	4.5
Biology of Microorganisms (BIOS 111)	BIOS1110	6.0
Elementary General Physics I (PHYS 141)	PHYS1410	7.5
Choose 3 of these: Accounting I (ACCT 201) Accounting II (ACCT 202) Personal Finance (FINA 260) Introduction to Entrepreneurship(ENTR121)	ACCT1200 ACCT1210 ECON1200 ENTR1050	4.5 4.5 4.5 4.5

Food Animal Production & Management Option:

Livestock Management (ASCI 250)	AGRI1141	6.0
Soils & Plant Nutrition (AGRO 153)	AGRI 1153	6.0
Live Animal Selection & Carcass Eval. (ASCI 200)	AGRI1257	4.5
Introduction to Meats (ASCI 210)	AGRI1258	4.5
Biology of Microorganisms (BIOS 111)	BIOS1110	6.0
Elementary General Physics I (PHYS 141)	PHYS1410	7.5

Meat Science Option:

Livestock Management (ASCI 250)	AGRI1141	6.0
Live Animal Selection & Carcass Eval. (ASCI 200)	AGRI1257	4.5
Introduction to Meats (ASCI 210)	AGRI1258	4.5
Elementary General Physics I (PHYS 141)	PHYS1410	7.5
Biology of Microorganisms (BIOS 111)	BIOS1110	6.0
Choose 2 of these: Accounting I (ACCT 201) Accounting II (ACCT 202) Personal Finance (FINA 260) Introduction to Entrepreneurship(ENTR121)	ACCT1200 ACCT1210 ECON1200 ENTR1050	4.5 4.5 4.5 4.5

Veterinary Animal Science Option:

Organic Chemistry II (CHEM 252/254)	CHEM2520	6.0
Biology II (LIFE 121/L)	BIOS1410	6.0
Elementary General Physics I (PHYS 141)	PHYS1410	7.5
<u>Take 1 of these business electives:</u>		
Accounting I (ACCT 201)	ACCT1200	4.5
Personal Finance (FINA 260)	ECON1200	4.5
Introduction to Entrepreneurship(ENTR121)	ENTR1050	4.5



**2016-17 Transfer Guide – Associate of Science Degree
Suggested Program of Study for a B.S. in Fisheries & Wildlife
College of Agricultural Sciences and Natural Resources (CASNR)**

IMPORTANT NOTES:

- A course may be used to satisfy only one graduation requirement. Likewise, a course may only be used to satisfy one ACE requirement.
- UNL will accept a maximum of 60 credit hours (90 quarter credits) from a community college.
- Courses with a prefix of AGRI are not offered on the Lincoln campus.

Written Communication

9.0 Qtr Credits

Take this course to fulfill UNL's ACE 1 requirement:

Composition I – ENGL1010	UNL ENGL150	4.5
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Take 1 of the following to fulfill the communication elective:

Composition II – ENGL1020	UNL ENGL151	4.5
Technical Writing – ENGL2560	UNL JGEN200	4.5
Bus. Comm. Strategies – OFFT2120	UNL BSAD220	4.5

Oral Communication

4.5 Qtr Credits

Take 1 of the following to fulfill UNL's ACE 2 requirement:

Fund of Human Comm – SPCH1090	UNL COMM109	4.5
Public Speaking – SPCH1110	UNL COMM209	4.5
Business and Professional Comm. – SPCH2810	UNL COMM286	4.5

Mathematics (UNL ACE 3)

9.0 Qtr Credits

Take the following course:

Elementary Statistics – MATH1180	UNL STAT218	4.5
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Take one of the following:

Applied Calculus – MATH1400	UNL MATH104	4.5
Calculus I – MATH1600	UNL MATH106	7.5

NOTE:

- If your test scores indicate you need to take MATH1150, 1200, or 1300 prior to the courses above, they will count as electives at UNL.

Natural Sciences (UNL ACE 4)

12.0 Qtr Credits

Take two of the following:

Biology I – BIOS1400/L	UNL LIFE120/L	6.0
Biology II – BIOS1410/L	UNL LIFE121/L	6.0

Humanities

4.5 Qtr Credits

Take one of the following to fulfill UNL's ACE 7 requirement:

Intro to Art History I – ARTS1050	UNL AHIS101	4.5
Intro to Art History II – ARTS1060	UNL AHIS102	4.5
Intro to Creative Writing – ENGL1510	UNL ENGL170	4.5

Fiction Writing – ENGL2520	UNL ENGL252	4.5
Poetry Writing – ENGL2530	UNL ENGL253	4.5
Contemporary Arts & Ideas – HUMS1200	UNL MUNM201	4.5
Intro to Music – MUSC1010	UNL MUNM276G	4.5
Intro to World Music – MUSC2800	UNL MUNM280	4.5
History of Rock Music – MUSC2870	UNL MUNM287	4.5
Oral Performance of Lit – SPCH2050	UNL COMM205	4.5
Intro to Theatre – THEA1010	UNL THEA112G	4.5

Social Sciences

4.5 Qtr Credits

Take one of the following to fulfill UNL's ACE 6 requirement:

Prin. of Macroecon – ECON2110	UNL ECON211	4.5
Prin. of Microecon – ECON2120	UNL ECON212	4.5

This transfer guide was developed by SCC in consultation with UNL advising representatives, but is not meant to be a substitute for advising. To ensure you have the most accurate information to aid in degree completion and transfer requirements, please schedule an appointment with your advisor. Courses and equivalencies are subject to change. Refer to www.transferology.com for the most accurate information regarding the transfer of courses.

Culture and Gender Studies

4.5 Qtr Credits

Take one of these to fulfill UNL's ACE 9 requirement:

Gen. Anthropology – ANTH1120	UNL ANTH110	4.5
Intro to Women's Lit – ENGL2150	UNL ENGL215	4.5
African American Lit – ENGL2440	UNL ENGL244	4.5
Native American Lit – ENGL2450	UNL ENGL245N	4.5
Latino/a & Latin American Literature – ENGL2460	UNL ENGL345D	4.5
Asian American Lit – ENGL2470	UNL ENGL245A	4.5

APPENDIX 5

World Regional Geography - GEOG1420	UNL GEOG272	4.5
Asian History - HIST1820	UNL HIST282	4.5
World History to 1500 CE – HIST2100	UNL HIST120	4.5
World History since 1500 CE – HIST2110	UNL HIST121	4.5
Intro to World Music-MUSC2800	UNL MUNM280	4.5
Intro to Comparative Religions – PHIL2610	UNL RELG108	4.5
Int'l Relations – POLS1600	UNL POLS160	4.5
Women in Contemporary Society – SOCI2000	UNL SOCI200	4.5
Issues of Unity and Diversity – SOCI2150	UNL SOCI217	4.5
Intercultural Comm. – SPCH2110	UNL COMM211	4.5

Electives

42.0 Qtr Credits

The following are suggested electives from which you can choose. Consult an advisor to discuss options. Because UNL will accept a maximum of 90 quarter credits (60 semester hours,) you may need to wait and take some of these courses at UNL.

Additional Math:

If your test scores placed you into the following courses, they will count as electives at UNL:

College Algebra – MATH1150	UNL MATH101	4.5
Trigonometry – MATH1200	UNL MATH102	4.5
Pre-calculus – MATH1300	UNL MATH103	7.5

Take one of the following to fulfill UNL's ACE 5 requirement:

Modern Fiction – ENGL2050	UNL ENGL205	4.5
Intro to Literature – ENGL2100	UNL ENGL180	4.5
Intro to Shakespeare–ENGL2140	UNL ENGL230A	4.5
Intro to Women's Lit–ENGL2150	UNL ENGL215	4.5
Children's Lit – ENGL2160	UNL ENGL216A	4.5
American Lit After 1856 - ENGL2210	UNL ENGL261	4.5
British Lit Post-1800 – ENGL2200	UNL ENGL231	4.5
Science Fiction Lit – ENGL2220	UNL ENGL206	4.5
African American Lit – ENGL2440	UNL ENGL244	4.5
Native American Lit – ENGL2450	UNL ENGL245N	4.5
Latino/a & Latin American Lit. – ENGL2460	UNL ENGL345D	4.5
Asian American Lit – ENGL2470	UNL ENGL245A	4.5
Western Tradition I – HIST1000	UNL HIST130	4.5
Western Tradition II – HIST1010	UNL HIST131	4.5
American History I – HIST2010	UNL HIST110	4.5
American History II – HIST2020	UNL HIST111	4.5
History of Rome – HIST2510	UNL HIST210	4.5
Intro to Philosophy – PHIL1010	UNL PHIL101	4.5
Bioethics – PHIL2130	UNL PHIL213	4.5
Philosophy of Religion–PHIL2650	UNL PHIL265	4.5

Take one of the following to fulfill UNL's ACE 8 requirement:

Prin. of Macroecon – ECON2110	UNL ECON211	4.5
Prin. of Microecon – ECON2120	UNL ECON212	4.5
Intro to Philosophy – PHIL1010	UNL PHIL101	4.5

Applied Ethics – PHIL1060	UNL PHIL106	4.5
Bioethics – PHIL2130	UNL PHIL213	4.5
Environmental Ethics – PHIL2250	UNL PHIL225	4.5
American Gov. – POLS1000	UNL POLS100	4.5

Additional Science courses:

Take one of the following: Soils & Plant Nutrition–AGRI1153 Physical Geology – GEOL1010/L Environmental Geology	<i>Earth Sciences</i> UNL AGRO153 UNL GEOL101 UNL GEOL106	6.0 6.0 4.5
General Chem I – CHEM1090/L	UNL CHEM109	6.0
General Chem II – CHEM1100/L	UNL CHEM110	6.0
Take one of the following: Elem General Physics I–PHYS1410 General Physics I – PHYS2110	UNL PHYS141 UNL PHYS211	7.5 7.5
General Genetics – BIOS2410/L	UNL BIOS206	6.0

Suggested Electives:

Environmental Ethics – PHIL2250	UNL PHIL225	4.5
Companion Animals – AGRI1177 <i>This is a good option for those interested in animal care.</i>	UNL ASCI251	4.5
Intro to Criminal Justice – CRIM1010 <i>This is a good option for those interested in a career as a game warden.</i>	UNL CRIM101	4.5



2016 - 17 Transfer Guide – Associate of Science Degree

Suggested Program of Study leading to the Professional Program in Veterinary Medicine (PPVM) at UNL

402-472-6680

pre-vet@unl.edu

<http://vetmed.unl.edu>

IMPORTANT NOTES:

- A course may be used to satisfy only one graduation requirement.
- UNL will accept a maximum of 60 credit hours (90 quarter credits) from a community college.
- This guide is for the PPVM program at UNL. Students planning to attend other schools or colleges of veterinary medicine should contact those schools for their list of pre-vet requirements. **The final determination as to whether a course meets pre-veterinary mandatory requirements rests with the veterinary college/school's admissions office.**
- A grade of C or better is required for all courses taken for the Pre-Vet mandatory requirements.
- It is in your best interest to earn a bachelor's degree in a major of your choice before being admitted to veterinary school, but a degree is not absolutely required.
- Pre-Vet is not a degree granting major. However, students are encouraged to start as a Pre-Vet major at UNL. The courses indicated in this guide meet the PPVM mandatory requirements, but may not meet the requirements of your chosen major. Refer to Transferology for specific requirements for your major:
www.transferology.com

Written Communication

9.0 Qtr Credits

Take this course to fulfill UNL's ACE 1 requirement:

Composition I – ENGL1010	UNL ENGL150	4.5
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Take one of these to fulfill the second writing requirement:

Composition II – ENGL1020	UNL ENGL151	4.5
Technical Writing – ENGL2560	UNL JGEN200	4.5

Speech Communication

4.5 Qtr Credits

Take one of these to fulfill UNL's ACE 2 requirement:

Public Speaking – SPCH1110	UNL COMM209	4.5
Business and Professional Comm. – SPCH2810	UNL COMM286	4.5

Mathematics/Logic

9.0 Qtr Credits

Take two of the following courses:

#Elementary Statistics – MATH1180	UNL STAT218	4.5
*Trigonometry – MATH1200	UNL MATH102	4.5
*Pre-Calculus – MATH1300	UNL MATH103	7.5
#Applied Calculus – MATH1400	UNL MATH104	4.5
*#Calculus I – MATH1600	UNL MATH106	7.5
Calculus II – MATH1700	UNL MATH107	7.5

NOTES:

- Be sure to take at least one course marked with an * to fulfill the pre-requisite for physics.
- Be sure to take at least one course marked with an # to fulfill UNL's ACE 3 math requirement.
- If your test scores indicate you need to take MATH1150, it will count as an elective at UNL and toward the A.S. degree.
- Students may not receive credit for both MATH1400 & MATH1600.
- Students may not receive credit for MATH1300 and also for MATH1150 and/or MATH1200.

This transfer guide was developed by SCC in consultation with UNL advising representatives, but is not meant to be used as a substitute for advising. To ensure you have the most accurate information to aid in degree completion and transfer requirements, please schedule an appointment with your advisor. Courses and equivalencies are subject to change. Refer to www.transferology.com for the most accurate information regarding the transfer of courses.

APPENDIX 6

Natural Science with Lab

12.0 Qtr Credits

Take both of the following:

Biology I – BIOS1400/L	UNL LIFE120/L	6.0
Biology II – BIOS1410/L	UNL LIFE121/L	6.0

Humanities

4.5 Qtr Credits

Take one of the following to fulfill UNL's ACE 7 requirement:

Intro to Art History I – ARTS1050	UNL AHIS101	4.5
Intro to Art History II – ARTS1060	UNL AHIS102	4.5
Intro to Creative Writing – ENGL1510	UNL ENGL170	4.5
Fiction Writing – ENGL2520	UNL ENGL252	4.5
Poetry Writing – ENGL2530	UNL ENGL253	4.5
Contemporary Arts & Ideas – HUMS1200	UNL MUNM201	4.5
Intro to Music – MUSC1010	UNL MUNM276G	4.5
World Music – MUSC2800	UNL MUNM280	4.5
History of Rock Music – MUSC2870	UNL MUNM287	4.5
Oral Performance of Literature – SPCH2050	UNL COMM205	4.5
Intro to Theatre – THEA1010	UNL THEA112G	4.5

Social Sciences

4.5 Qtr Credits

Take one of the following to fulfill UNL's ACE 6 requirement:

Macroeconomics – ECON2110	UNL ECON2110	4.5
Microeconomics – ECON2120	UNL ECON2120	4.5

Culture & Gender Studies

4.5 Qtr Credits

Take one of the following to fulfill UNL's ACE 9 requirement:

Gen. Anthropology – ANTH1120	UNL ANTH110	4.5
Intro to Women's Lit – ENGL2150	UNL ENGL215	4.5
African American Lit – ENGL2440	UNL ENGL244	4.5
Native American Lit – ENGL2450	UNL ENGL245N	4.5
Latino/a & Latin American Lit – ENGL2460	UNL ENGL345D	4.5
Asian American Lit – ENGL2470	UNL ENGL245A	4.5
World Regional Geography – GEOG1420	UNL GEOG272	4.5
Survey of Asian History – HIS1820	UNL HIST282	4.5
World History to 1500 CE – HIST2100	UNL HIST120	4.5
World History since 1500 CE – HIST2110	UNL HIST121	4.5
Intro to World Music – MUSC2800	UNL MUNM280	4.5
Intro to Comparative Religions – PHIL2610	UNL RELG108	4.5
International Relations – POLS1600	UNL POLS160	4.5
Women in Society – SOCI2000	UNL SOCI200	4.5
Issues of Unity and Diversity – SOCI2150	UNL SOCI217	4.5
Intercultural Comm. – SPCH2110	UNL COMM211	4.5

Electives

42.0 Qtr Credits

The following courses will fulfill electives for the A.S. degree, but are required for the PPVM program.

Additional science courses:

General Genetics – BIOS2410	UNL BIOS206	6.0
General Chem I – CHEM1090/L	UNL CHEM109/L	6.0
General Chem II – CHEM1100/L	UNL CHEM110/L	6.0
Organic Chem I – CHEM2510/L	UNL CHEM251/253	6.0
Organic Chem II – CHEM2520/L	UNL CHEM252/254	6.0
Elem. Gen. Physics I – PHYS1410	UNL PHYS141	7.5

NOTE: Because UNL will accept a maximum of 90 quarter credits (60 semester hours,) you will only be able to take one of the following courses. You will need to wait to take the other one at UNL.

One of the following will fulfill UNL's ACE 5 requirement:

Modern Fiction – ENGL2050	UNL ENGL205	4.5
Intro to Literature – ENGL2100	UNL ENGL180	4.5
Intro to Shakespeare – ENGL2140	UNL ENGL230A	4.5
Intro to Women's Lit – ENGL2150	UNL ENGL215	4.5
Children's Literature – ENGL2160	UNL ENGL216	4.5
Science Fiction Lit – ENGL2200	UNL ENGL206	4.5
American Lit After 1865 – ENGL2210	UNL ENGL261	4.5
British Lit Post-1800 – ENGL2220	UNL ENGL231	4.5
African American Lit – ENGL2440	UNL ENGL244	4.5
Native American Lit – ENGL2450	UNL ENGL2450	4.5
Latino/a & Latin American Lit. – ENGL2460	UNL ENGL345D	4.5
Asian American Lit – ENGL2470	UNL ENGL245A	4.5
Western Tradition I – HIST1000	UNL HIST130	4.5
Western Tradition II – HIST1010	UNL HIST131	4.5
American History I – HIST2010	UNL HIST110	4.5
American History II – HIST2020	UNL HIST111	4.5
History of Rome – HIST2510	UNL HIST210	4.5
Intro to Philosophy – PHIL1010	UNL PHIL101	4.5
Bioethics – PHIL2130	UNL PHIL213	4.5
Philosophy of Religion – PHIL2650	UNL PHIL265	4.5

One of the following will fulfill UNL's ACE 8 requirement:

Macroeconomics – ECON2110	UNL ECON211	4.5
Microeconomics – ECON2120	UNL ECON212	4.5
Intro to Philosophy – PHIL1010	UNL PHIL101	4.5
Applied Ethics – PHIL1060	UNL PHIL106	4.5
Bioethics – PHIL2130	UNL PHIL213	4.5
Environmental Ethics – PHIL2250	UNL PHIL225	4.5
American Government – POLS1000	UNL POLS100	4.5

College of Agricultural Sciences and Natural Resources
Bachelor of Science Degree in Plant Biology-Ecology and Management Option
3+1 Transfer Program with Wayne State College

APPENDIX 1

UNL			Wayne State College			
Course No.	Course Title	Required Credits	Course No.	Course Title	Required Credits	
ACE Student Learning Outcomes - Except where noted, choose one course from each ACE Outcome.						
ACE Outcome 1						3
JGEN 120	Basic Business Communication	3	BUS 208	Business Communication	3	
ENGL 150	Writing & Inquiry	3	ENG 102	Composition Skills	3	
ENGL 254	Writing & Communities	3	ENG 200	Expository Writing	3	
ACE Outcome 2						3
COMM 109	Fundamentals of Human Communication	3	CNA 100	Principles of Human Communication	3	
COMM 209	Public Speaking	3	CNA 252	Public Address	3	
ACE Outcome 3 (both courses are required)						8
STAT 218	Introduction to Statistics	3	MAT 180	Applied Probability and Statistics	3	
MATH 106	Calculus I	5	MAT 140	Calculus I	5	
ACE Outcome 4 and Biological Sciences (all courses are required)						43
BIOS 109	General Botany	4	BIO 210	Experimental Plant Science	4	
AGRO 315	Genetics	4	BIO 320	Molecular Genetics	4	
¹ BIOS 207/BIOS 220	Ecology and Evolution/Principles of Ecology	4	BIO 325	Ecology	4	
BIOC 321/L	Elements of Biochemistry and Lab	4	CHE 326	Biochemistry I	4	
CHEM 109	General Chemistry I	4	CHE 106	General Chemistry I	4	
CHEM 110	General Chemistry II	4	CHE 107	General Chemistry II	4	
CHEM 251/253	Organic Chemistry I and Lab	4	CHE 314	Organic Chemistry I	4	
LIFE 120/L	Fundamentals of Biology I and Lab	4	BIO 110	Biology Concepts	4	
² LIFE 121/L & BIOS 472	Fundamentals of Biology II and Lab and Evolution	7	BIO 200 & 425	Zoology and Evolution	7	
PHYS 141	Elements of General Physics I	4/wave 1	PHYS 201/321	General Physics I/Physics Laboratory I	4	
Select no more than one course from each of the following 5 areas, except where noted, for a total of 15 hrs.						15
ACE Outcome 5						3
HIST 201	America to 1877	3	HIS 180	American Experience I	3	
HIST 202	America after 1877	3	HIS 181	American Experience II	3	
PHIL 101	Introduction to Philosophy	3	PHI 101	Introduction to Philosophy	3	
ACE Outcome 6						3
ECON 211	Principles of Macroeconomics	3	ECO 202	Principles of Macroeconomics	3	
ECON 212	Principles of Microeconomics	3	ECO 203	Principles of Microeconomics	3	
ACE Outcome 7						3
DRAW 101	Beginning Drawing	3	ART 110	Drawing I	3	
AHIS 101	Cave Paintings To Cathedrals	3	ART 344	Art History I	3	
AHIS 102	Renaissance To Modern Art	3	ART 345	Art History II	3	
ENGL 252	Introduction to Writing of Fiction	3	ENG 203	Fiction Workshop	3	
ENGL 253	Introduction to Writing of Poetry	3	ENG 202	Poetry Workshop	3	
THEA 112G	Introduction to Theatre	3	CNA 101	Introduction to Theatre	3	
ACE Outcome 8						3
ECON 211	Principles of Macroeconomics	3	ECO 202	Principles of Macroeconomics	3	
ECON 212	Principles of Microeconomics	3	ECO 203	Principles of Microeconomics	3	
POLS 100	Power and Politics In America	3	POS 100	American National Government	3	
PHIL 101	Introduction to Philosophy	3	PHI 101	Introduction to Philosophy	3	
PHIL 106	Philosophy & Current Issues	3	PHI 105	Ethics & Values	3	
CSCE 230	Computer Organization	3	CSC 320	Computer Organization and Architecture	3	
ACE Outcome 9						3
GEOG 272	Geographical World Regions	3	GEO 120	World Regional Geography	3	
GEOG 140	Introduction to Human Geography	3	GEO 300	Human Geography	3	
HIST 120	World History To 1500	3	HIS 120 or HIS 170	World History orWorld Civilization I	3	
HIST 121	World History Since 1500	3	HIS 171	World Civilization II	3	
PHIL 106	Philosophy & Current Issues	3	PHI 105	Ethics & Values	3	
POLS 160	International Relations	3	POS 110	Introduction to World Politics	3	
ANTH 110	Introduction To Anthropology	3	SOC 110	Introduction to Anthropology	3	
SOCI 201	Social Problems	3	SOC 220	Social Problems	3	
SOCI 226	Families And Society	3	SOC 415	The Family	3	
Outcome 10 - Must be taken at UNL						

Ecology and Management Courses:						
Earth Sciences:						7
METR 100	Weather & Climate	4	EAS 110	Introduction to Meteorology	4	
GEOG 412	Intro to Geographic Information Systems	4/waive 1 cr.	GEO 430	Geographic Information Systems	3	
Biology:						3
³ NRES 211	Introduction to Conservation Biology	3	BIO 345	Conservation Biology	3	
Career Experience and Independent Study/Current Project						5
⁴ AGRO 295	Internship in Agronomy	1	BIO 397	Internship Program	1	
⁴ AGRO 496	Independent Study	1	BIO 470	Research Project	1	
Elective		1	BIO 469	Senior Seminar in Biology	1	
Elective		2	BIO 370	Introduction to Research	2	
Free Electives: (take no more than 6 credits and credits can come from any subject)		3				3
Total Credits at UNL		90	Total Credits from Wayne State College NOTE: UNL will only accept 90 semesters hours.			90

Educational Coursework to be taken at UNL		
Summer Term (can be taken anytime during the 3 years at WSC)		
⁵ AGRO 153	Soil Resources	4
Total		4
Fall Term		
AGRO 442	Wildland Plants	3
AGRO 444	Ecosystem Monitoring and Assessment	3
Ecology & Mgmt Elective		3
AGRO 92	Plant Biology Portfolio and Assessment	0
Free Elective related to Ecology and Management		3
Total		12
Spring Term		
AGRO 403, BIOS 457 or NRES 454 (ACE 10)	Scientific Writing & Communication, Ecosystem Ecology or Ecological Interactions	3-4
AGRO 245	Introduction to Grassland Ecology and Management	3
AGRO 325	Introductory Plant Physiology	4
Free Elective related to Ecology and Management		3-4
Total		14
Grand Total of Educational Coursework Taken at UNL		30

Total Hours of Coursework Transferred from Wayne to UNL	90
Total Hours of Coursework Taken at UNL	30
Total Hours to Earn a Bachelor of Science in Plant Biology	120

¹BIO 325 will substitute for BIOS 207/BIOS 220

²BIO 200 and 434 will substitute for LIFE 121/L; BIO 425 is a direct equivalent to BIOS 47.

³BIO 345 will substitute for NRES 211

⁴Students are required to submit a contract for approval to the Plant Biology Steering Committee at UNL BEFORE the experience and/or independent study occurs.

⁵AGRO 153 is a pre-requisite and must be taken before coming to UNL; offered online.

MEMORANDUM OF AGREEMENT

Between the

NEBRASKA WESLEYAN UNIVERSITY

and

BOARD OF REGENTS OF THE UNIVERSITY OF NEBRASKA

for the

COLLEGE OF ENGINEERING

UNIVERSITY OF NEBRASKA-LINCOLN

The dual degree program in Physics/ Chemistry/Biochemistry and Engineering is a joint program between Nebraska Wesleyan University (NWU) and The University of Nebraska-Lincoln (UNL). The program allows students to earn a NWU Physics, Chemistry, or Biochemistry degree and a Civil Engineering, Environmental Engineering, Electrical Engineering, Chemical Engineering, or Mechanical Engineering degree from UNL. A student enrolled in this program will complete their first years of coursework at NWU, as established by the respective *Suggested Programs of Study* (APPENDIX I), and by transferring all satisfactorily completed academic credits, to enter UNL to study Civil, Environmental, Chemical, Electrical, or Mechanical Engineering. UNL credits will then be transferred to NWU for completion of the Bachelor of Science in Physics, Biochemistry, or Chemistry.

Under the provisions of this Memorandum of Agreement made this 20th day of December 2024, NWU and UNL agree to the following conditions:

1. This Memorandum of Agreement describing the transfer Program between NWU and UNL will be effective beginning Fall 2024.
2. Transfer courses will include content courses for Engineering and Physics as negotiated as equivalent to courses in the College of Engineering and will be periodically evaluated through the exchange of course syllabi and examination by UNL and NWU. It is the responsibility of NWU to submit changes in course offerings for review to UNL. Likewise, it is the responsibility of UNL to submit changes in course offerings and/or changes to the curriculum to NWU.
3. Courses will include UNL's Achievement-Centered Education (ACE) courses identified as transferable by UNL's Undergraduate Studies as stated in the Course Transfer

Equivalency List on the UNL website,

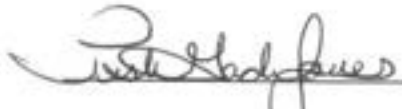
<https://admissions.unl.edu/nebraska/equivalency/>. Suggested Programs of Study are outlined in Appendix I.

4. To assist prospective transfer students enrolled in the Dual Degree Program for Engineering and Physics/Biochemistry/Chemistry with their academic planning, students from NWU are strongly encouraged to work with an academic advisor at NWU and an academic advisor at UNL.
5. NWU will meet annually with UNL officials to evaluate this Memorandum of Agreement.
6. UNL will allow students entering the Dual Degree in Engineering and Physics/Biochemistry/Chemistry to complete the program under the Memorandum of Agreement in effect at the time of their program initiation or select the current Memorandum of Agreement, but only one can be declared.
7. Students entering the Dual Degree in Engineering and Physics/Biochemistry/Chemistry will be allowed to complete the program under the degree requirements listed in the Online UNL Undergraduate Catalog in effect at the time of their program initiation. Students must declare a Catalog that includes UNL's Achievement-Centered Education (ACE) requirements.
8. Students enrolled in this program will, by transferring all satisfactorily completed academic credits identified in the attached Suggested Programs of Study (Appendix I) within the Dual Degree Program, enter UNL with junior standing.
9. UNL will allow no more than 90 semester hours of degree applicable transfer credit from a four-year institution to apply to Bachelor of Science programs.
10. Students transferring to UNL from NWU must have a minimum cumulative and last-term grade point average of 2.5 on a 4.0 scale. UNL's admission requirements can be found at: <https://admissions.unl.edu/apply/admission-requirements/transfer/>.
11. Students who transfer from NWU will present credits for transfer evaluation in fulfillment with UNL requirements and the Achievement-Centered Education (ACE) requirements. The use of

courses taken at other institutions toward fulfillment of UNL requirements will be assessed by UNL for equivalency.

12. Students transferring into UNL must meet UNL's admission standards.
13. Total hours required for a Bachelor of Science in Engineering will total at least 120 hours.
14. Transfer students from NWU will have the opportunity to compete for UNL transfer student scholarships.
15. A description of the Dual Degree in Engineering and Physics/Biochemistry/Chemistry program will be printed in the NWU Catalog and on the UNL Engineering website.
16. Amendments to this Memorandum of Agreement will be, if deemed necessary by either UNL or NWU, negotiated annually.
17. This Memorandum of Agreement shall commence when properly signed by both parties and shall expire July 31, 2025, and automatically renew for successive annual terms unless terminated by either party upon 90 days written notice to the other party.

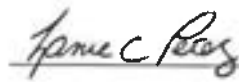
FOR NEBRASKA WESLEYAN UNIVERSITY



Tish Gade-Jones, Vice President for Finance and Administration

1-14-2025
Date

FOR THE BOARD OF REGENTS OF THE UNIVERSITY OF NEBRASKA – LINCOLN



Lance C. Pérez, Ph.D., Fred Hunzeker Dean of Engineering

10 January 2025
Date



Mark Button, Ph.D., Interim Executive Vice Chancellor

February 25, 2025
Date

Appendix I

Suggested Programs of Study

Table of Contents

NWU Physics & UNL Civil Engineering Dual-degree Program	5
NWU Biochemistry and Molecular Biology (Biochemistry) & UNL Environmental Engineering Dual-degree Program.....	6
NWU Biochemistry and Molecular Biology (Chemistry) & UNL Environmental Engineering Dual-degree Program.....	7
NWU Physics & UNL Mechanical Engineering Dual-degree Program	8
NWU Chemistry & UNL Chemical Engineering Dual-degree Program.....	9
NWU Physics & UNL Electrical Engineering Dual-degree Program	10

NWU Physics & UNL Civil Engineering Dual-degree Program

NWU Physics & UNL Civil Engineering Dual-degree Program		
UNL Civil Engineering Program of Study (After completing NWU coursework*)		
Summer 1	MECH223-Engineering Statics**	3
Fall Semester 1	CIVE 101 – Introduction to Civil Engineering	3
	CIVE 201 – Civil Engineering Analysis I	2
	CIVE 301 – Civil Engineering Synthesis I	1
	CIVE 310 – Fluid Mechanics	2
	CIVE 310L – Hydraulics Lab	1
	CIVE 361 – Principles of Transportation Engineering	3
	MECH 325 – Mechanics of Elastic Bodies	3
	ENGR 030 – Engineering Seminar for Transfer Students	0
	Semester Total	16
Spring Semester 1	CIVE 102 – Geomatics for Civil Engineers	3
	CIVE 202 – Civil Engineering Analysis II	2
	CIVE 302 – Civil Engineering Synthesis II	1
	CIVE 321 – Principles of Environmental Engineering	3
	CIVE 321L – Environmental Engineering Lab	3
	CIVE 351 – Introduction to Water Resources Engineering	3
	CIVE 371 – Materials of Construction	1
	Semester Total	16
Fall Semester 2	CIVE 341 – Structural Engineering Analysis	3
	CIVE 342 – Structural Engineering Design	1
	CIVE 401 – Civil Engineering Design I	3
	CIVE Depth Elective***	3
	CIVE Depth Elective***	3
	STAT 380 – Statistics & Applications or MECH 321 – Engineering Statistics & Data Analysis	3
	Semester Total	16
Spring Semester 2	CIVE 331 – Introduction to Geotechnical Engineering	4
	CIVE 402 – Civil Engineering Design II	3
	CIVE Depth Elective***	3
	Semester Total	10

*Includes PHYS 1100, PHYS 2000, PHYS 2100, PHYS 3000, PHYS 3800, PHYS 4000 or PHYS 4100, CHEM 1110, MATH 1600, MATH 1610, MATH 2600, MATH 3100, CmpSc 1500, equivalents to UNL ACE 1, 2, 5, 6, 7, 8, and 9.

**MECH223-Engineering Statics must be taken in the summer when transitioning from NWU to UNL so that all prerequisites are met for MECH 325

*** CIVE Depth Electives: Choose one from CIVE 420, CIVE 425, CIVE 427, CIVE 419, CIVE 452; Choose one from CIVE 436, CIVE 440, CIVE 441, CIVE 462, CIVE 463; Choose one the following that were not used to fulfill another requirement CIVE 419, CIVE 420, CIVE 425, CIVE 427, CIVE 436, CIVE 440, CIVE 441, CIVE 452, CIVE 436, CIVE 440, CIVE 441, CIVE 462, CIVE 463

NWU Biochemistry and Molecular Biology (Biochemistry) & UNL Environmental Engineering Dual-degree Program

NWU Biochemistry and Molecular Biology & UNL Environmental Engineering Dual-degree Program		
UNL Environmental Engineering Program of Study (After completing NWU coursework*)		
Semester	Courses	Credits
Summer 1	MECH223-Engineering Statics**	3
	Semester Total	3
Fall Semester 1	ENVE 101 - Introduction to Environmental Engineering	3
	ENVE 210 - Fundamentals of Environmental Engineering	3
	CIVE 310 - Fluid Mechanics	3
	STAT 380 - Statistics & Applications	3
	ENGR 030 - Engineering Seminar for Transfer Student	0
	Semester Total	12
Spring Semester 1	CIVE 321 - Principles of Environmental Engineering	3
	CIVE 321L - Environmental Engineering Lab	1
	CIVE 351 - Introduction to Water Resources Engineering	3
	MECH 325 or MECH 373***	3
	Envir. Eng. Elect. - CIVE 371	3
	Semester Total	13
Fall Semester 2	ENVE 401 - Environmental Engineering Design I	2
	ENVE 322 - Biological Principles of Environmental Engineering	3
	ENVE 430 - Sustainable Design in Environmental Engineering	3
	Envir. Eng. Elect.***	3
	Semester Total	11
Spring Semester 2	ENVE 402 - Environmental Engineering Design II	3
	ENVE 410 - Environmental Fate and Transport	3
	CIVE 424 or CHME 489***	3
	CIVE 419 or CIVE 452***	3
	CIVE 420 - Environmental Engineering Process Design	3
	Semester Total	15

*Includes CHEM 1110, CHEM 1110L, CHEM1120, CHEM 2100, CHEM 2100L, CHEM 2110, CHEM 3510, CHEM 3440, BIO 2200, PHYS 1100, PHYS 2000, MATH 1600, MATH 1610, MATH 2600, MATH 3100, CmpSc 1500, equivalents to UNL ACE 1, 2, 5, 6, 7, 8, and 9.

**MECH223-Engineering Statics must be taken in the summer when transitioning from NWU to UNL so that all prerequisites are met for MECH 325 or MECH 373

*** Work with the UNL ENVE faculty advisors to select these courses

NWU Biochemistry and Molecular Biology (Chemistry) & UNL
Environmental Engineering Dual-degree Program

NWU Biochemistry and Molecular Biology & UNL Environmental Engineering Dual-degree Program		
UNL Environmental Engineering Program of Study (After completing NWU coursework*)		
Semester	Courses	Credits
Summer 1	MECH223-Engineering Statics**	3
	Semester Total	3
Fall Semester 1	ENVE 101 - Introduction to Environmental Engineering	3
	ENVE 210 - Fundamentals of Environmental Engineering	3
	CIVE 310 - Fluid Mechanics	3
	STAT 380 - Statistics & Applications	3
	ENGR 030 - Engineering Seminar for Transfer Student	0
	Semester Total	12
Spring Semester 1	CIVE 321 - Principles of Environmental Engineering	3
	CIVE 321L - Environmental Engineering Lab	1
	CIVE 351 - Introduction to Water Resources Engineering	3
	MECH 325 or MECH 373***	3
	Envir. Eng. Elect. - CIVE 371	3
	Semester Total	13
Fall Semester 2	ENVE 401 - Environmental Engineering Design I	2
	ENVE 322 - Biological Principles of Environmental Engineering	3
	ENVE 430 - Sustainable Design in Environmental Engineering	3
	Envir. Eng. Elect.***	3
	Semester Total	11
Spring Semester 2	ENVE 402 - Environmental Engineering Design II	3
	ENVE 410 - Environmental Fate and Transport	3
	CIVE 424 or CHME 489***	3
	CIVE 419 or CIVE 452***	3
	CIVE 420 - Environmental Engineering Process Design	3
	Semester Total	15

*Includes CHEM 1110, CHEM 1110L, CHEM1120, CHEM 2100, CHEM 2100L, CHEM 2110 CHEM 3510, CHEM 3440, BIO 2200, PHYS 1100, PHYS 2000, MATH 1600, MATH 1610, MATH 2600, MATH 3100, CmpSc 1500, equivalents to UNL ACE 1, 2, 5, 6, 7, 8, and 9.

**MECH223-Engineering Statics must be taken in the summer when transitioning from NWU to UNL so that all prerequisites are met for MECH 325 or MECH 373

*** Work with the UNL ENVE faculty advisors to select these courses

NWU Physics & UNL Mechanical Engineering Dual-degree Program

NWU Physics & UNL Mechanical Engineering Dual-degree Program			
UNL Mechanical Engineering Program of Study (After completing NWU coursework*)			
Semester 1	MECH223-Engineering Statics**		3
	MECH130-Geometric Mod. & Mech. Des.		3
	MECH 325-Mechanics of Elastic Bodies		3
	MATL360-Elements of Mtls. Science		4
	BSEN206-Engineering Economics (ACE 8)		3
	ENGR30-Transfer Student Eng. Seminar		0
	Semester Total		16
Semester 2	MECH230-Intro. Mech. Eng. Des.		3
	MECH310-Fluid Mechanics		3
	MECH321-Eng. Statistics and Data Analysis		3
	MECH342-Kinematics & Dynamics of Machinery		3
	MECH300-Thermal Systems & Design <u>OR</u>		3
	MECH343-Elements of Machine Design		
	Semester Total		15
Semester 3	MECH350-Dynamics & Control of Engr. Systems		3
	MECH370-Manufacturing Methods & Processes		3
	MECH380-Measurements		3
	MECH446-Design I (ACE 10)		2
	MECH488-Kinematics & Machine Design Lab		2
	Semester Total		13
Semester 4	ENGR 400-Professional Ethics		1
	MECH420-Heat Transfer		3
	MECH447-Design II (ACE 10)		2
	MECH487-Thermal Fluids Lab		2
	Design Elective		3
	Technical Elective		3
	Semester Total		14
***If not completed at NWU:		Take at UNL:	
	PHYS 3000 Mechanics	MECH373 Engineering Dynamics	3
	PHYS 4100 Therm. & Stat. Phys.	MECH200 Eng. Thermodynamics	3
	MATH 3200 Linear Algebra	MATH314 Linear Algebra**	3

*NWU transcript includes:

CHEM 1120/1120L Chemical Principles II with lab

CMPSC 1100 Python Programming I

PHYS 3000 Mechanics***

or PHYS 4100 Thermal & Statistical Physics***

MATH 3200 Linear Algebra*** strongly recommended

NWU First-Year Writing (FYW) requirement met

NWU Speaking Instructive requirement met, including capstone sequence PHYS3800 and 4950

**MECH223-Engineering Statics and MATH314-Linear Algebra (if needed) may be taken in the summer when transitioning from NWU to UNL.

NWU Chemistry & UNL Chemical Engineering Dual-degree Program

NWU Chemistry & UNL Chemical Engineering Dual-degree Program UNL Chemical Engineering Program of Study (After completing NWU coursework*)		
Semester 1	CHME 223-Chemical Engineering Thermodynamics I	3
	CHME 312-Chemical Engineering Computation	3
	CHME 331-Equilibrium Stage Operations	3
	CHME 332-Transport Operations I	3
	ENGR30-Transfer Student Eng. Seminar	0
	CHEM 221A-Elementary Quantitative Analysis	3
	CHEM 221L-Elementary Quantitative Analysis Laboratory	2
	Semester Total	17
Semester 2	CHME 323-Chemical Engineering Thermodynamics & Kinetics	3
	CHME 330-Chemical Engineering Laboratory I	3
	CHME 333-Transport Operations II	3
	CHME 334-Transport Operations III	3
	Advanced Chemistry – Select one of the following:	3
	CHEM 421-Analytical Chemistry	
	CHEM 431/BIOC 431/BIOC 431-Biochemistry I: Structure & Metabolism	
	CHEM 441-441-Inorganic Chemistry	
	Semester Total	15
Semester 3	CHME 442-Chemical Reactor Engineering & Design	3
	CHME 452-Chemical Engineering Process Economics & Optimization	3
	CHME 460-Automatic Process Control Laboratory	1
	CHEM 462-Automatic Process Control	3
	Technical Electives (See courses in the Technical Elective Section)	3
	ENGR 400-Professional Ethics & Social Responsibilities	1
	ACE 7 Elective	3
	Semester Total	17
Semester 4	CHME 420-Chemical Process Safety	3
	CHME 430-Chemical Engineering Laboratory II	4
	CHEM 453-Chemical Engineering Process Design & Safety	3
	Technical Electives (See courses in the Technical Elective Section)	3
	ACE 8 Elective	3
	Semester Total	16
Take at UNL in Fall of Year 3 or summer before starting year 1 at UNL: CHME 202-Mass & Energy Balances		3

***NWU transcript includes:**

CHEM 1120/1120L Chemical Principles II with lab
 CMPSC 1100 Python Programming I
 MATH 3100 Differential Equations
 PHYS 2100 General Physics II
 PHYS 2200 Electronic Measurements

NWU First-Year Writing (FYW)
 NWU Speaking Instructive

NWU Physics & UNL Electrical Engineering Dual-degree Program

NWU Physics & UNL Electrical Dual-degree Program UNL Electrical Engineering Program of Study (After completing NWU coursework*)		
Semester 0	ECEN 215 -- Electronics & Circuits I	3
	ECEN 235 -- Introductory Electrical Laboratory I	1
	Semester Total	4
Semester 1	ECEN 216 -- Electronics & Circuits II	3
	ECEN 236 -- Introductory Electrical Laboratory II	1
	ENGR 30 -- Transfer Student Eng. Seminar	0
	ECEN 220 -- Introduction to Embedded Systems	4
	ECEN 305 -- Prob. Theory & Statistics for Elec. & Comp Eng.'s	3
	Semester Total	11
Semester 2	ECEN 304 -- Signals & Systems I	3
	ECEN 307 -- Electrical Engineering Laboratory I	1
	ECEN 316 -- Electronics & Circuits III	3
	ECEN 327 -- Discrete Systems Laboratory	1
	ECEN 370 -- Digital Logic Design	3
	Semester Total	11
Semester 3	ECEN 347 -- Electrical Engineering Laboratory II	1
	ECEN Technical Electives	6
	ECEN 481 -- Capstone I	3
	Semester Total	10
Semester 4	ECEN Technical Electives	6
	ECEN 495 -- Capstone II	3
	Semester Total	9

Notes:

- (1) This plan assumes NWU PHYS 2200 (4 cr) substitutes for ECEN 103 (4 cr).
- (2) This plan assumes NWU PHYS 3100 (3 cr) substitutes for ECEN 306 (3 cr).
- (3) This plan would accept BIOS 101 and 101L (4 cr) transfer as substitute for LIFE 120 and 120L (4 cr) as a science elective.
- (4) This plan assumes NWU ENGL 3020 (3 cr) substitutes as ENGL 254 (3 cr) and satisfies the ACE 1 requirement (currently JGEN 200 (3 cr)).
- (5) This plan assumes ACE 5 thru 9 outcomes satisfied with NWU courses.
- (6) This plan assumes all 15 Additional Technical Elective credits and the 2 credits for ECEN 102 are brought in from the Physics major requirements.