# NCTA/CASNR Reverse Transfer Protocol 7/19/2019

The purpose of this initiative is to increase credential attainment for students attending CASNR who plan to leave the University before completing their bachelor degree

The program has three requirements: **Associate of Science General Education Core Courses** (26 credit hours required), **Specialization core courses** (24-27 SCH), and **Advisor guided electives** (11 SCH). A minimum of 15 credits must be taken directly from NCTA.

#### **Program requirements:**

- 1. **Associate of Science General Education Core (26 credit hours required):** All options for the AS degree require 26 credit hours of general education broken down according to the outline below. The UNL ACE categories are listed here. The specific courses which meet this requirement are listed in **Appendix A**.
  - a. ACE 1: Written communication; critical thinking (3 hours required)
  - b. ACE 2: Oral communication (3 hours required)
  - c. ACE 3: Quantitative literacy (5 hours required)
  - d. ACE 4: Problem solving (8 hours required)
  - e. ACE 9: Intercultural knowledge & competence (3 hours required)
  - f. ACE 8: Information literacy (1 hours required)
  - g. ACE 8: Civic engagement (3 hour required)
- 2. **Specialization core courses (24 to 27 credit hours required):** Students would specialize in one of six options. Specific courses needed to meet these specialization core requirements are listed in **Appendix A**.
- 3. Advisor guided electives (11-14 credit hours required).
- 4. **Courses taught directly by NCTA (15 credit hours required).** These hours could be completed through a combination of any of the following:
  - a. Courses or programs currently offered through NCTA. These credits may also meet the requirements of the specialization core courses or the advisor guided electives.
  - b. Internships, independent study, practicum, or online courses offered by NCTA.

Table 1. Summary of credit requirements for the Associate of Science reverse transfer pathway initiative

AS Option	Gen. Ed. SCH	Elect. SCH	Tech. SCH	Total SCH
Agribusiness	26	11	27	64
Management				
Agronomy	26	14	24	64
Mechanized Systems	26	9	29	64
Management				
Agricultural	26	11	27	64
Education				
Animal Science	26	11	27	64

0	CTA origin SCH	CASNR credits approved @ NCTA
	15	81
	15	42
	15	42
	15	45
	15	84

Table 1 lists the five options in the Associate of Science degree program proposed for the reverse transfer program. The Associate of Science (AS) degree is NCTA's transfer option for students intending to complete a baccalaureate degree. Associate of Science programs were approved for this initiative only if the NCTA faculty could align the learning outcomes in NCTA courses with approved equivalencies offered through UNL. In some program areas, such as veterinary

technology, courses were not available at UNL that aligned with the Associate of Science program area so the program was not proposed.

Total credit hour requirements for the Associate of Science degree range from 61 to 66. Credits are required in four categories:

- 1. Approximately 40% of the required credits are in general education. Specific UNL courses have been approved in each ACE category.
- 2. Approximately 20% of the required credits are electives, allowing students to specialize in an area of career interest.
- 3. Approximately 40% of the required credits are in specified technical courses. Depending on the option, required credits in specific technical courses range from 24 to 29.
- 4. Fifteen credit hours must be taught by NCTA faculty. The 15 credit hours may fit in any of the categories mentioned above.

APPENDIX A: Listed below are CASNR courses whose learning outcomes have been approved by the NCTA faculty to meet NCTA degree requirements through reverse transfer from CASNR to NCTA.

## GENERAL EDUCATION REQUIREMENTS

#### NCTA A.S. Degree Requirement: Written Communication & Critical Thinking (3 Hours Required)

Acceptable UNL Equivalent Courses - ACE 1: Write texts, in various forms, with an identified purpose, that respond to specific audience needs, integrate research or existing knowledge, and use applicable documentation and appropriate conventions of format and structure.

Strategic Writing for Advertising & Public Relations
Business Writing
Writing and Inquiry
Writing and Argument
Writing and Communities
Basic Business Communication
Technical Communication I
Technical Communication II
Reporting I

## NCTA A.S. Degree Requirement: Oral Communication (3 Hours Required)

Acceptable UNL Equivalent Courses - ACE 2: Demonstrate competence in communication skills in one or more of the following ways:

- by making oral presentations with supporting materials,
- by leading and participating in problem-solving teams,
- by employing communication skills for developing and maintaining professional and personal relationships, or
- by producing and/or interpreting visual information

ALEC 102	Interpersonal Skills for Leadership
COMM 101	Communication in the 21st Century
COMM 109	Fundamentals of Human Communication
COMM 209	Public Speaking
COMM 210	Communicating in Small Groups
COMM 215	Visual Communication
COMM 283	Interpersonal Communication
COMM 295	University Speech and Debate
COMM 286	Business and Professional Communication
ENGR 100	Interpersonal Skills for Engineering Leaders
MRKT 257	Sales Communication
NRES 301	Environmental Communication Skills

#### NCTA A.S. Degree Requirement: Quantitative Literacy (5 Hours Required)

Acceptable UNL Equivalent Courses - ACE 3: Use mathematical, computational, statistical, logical, or other formal reasoning to solve problems, draw inferences, justify conclusions, and determine reasonableness.

CRIM 300 Applied Statistics and Data Processing in the Public Sector

CSCE 101	Fundamentals of Computer Science
CSCE 155A	Computer Science I
CSCE 155E	Computer Science I: Systems Engineering Focus
CSCE 155N	Computer Science I: Engineering and Science Focus
CSCE 155T	Computer Science I: Informatics Focus
ECON 215	Statistics
EDPS 330	Statistics and Measurement in Nutrition, Fitness and Health Promotion
EDPS 459	Statistical Methods
ENGL 279	Digital Literary Analysis
MATH 10	Applied Calculus
MATH 106	Calculus I
MATH 107	Calculus II
MATH 107R	Analytic Geometry and Calculus II
MATH 203	Contemporary Mathematics
MATH 203J	Contemporary Math
MATH 208	Calculus III
MATH 221	Differential Equations
MATH 310	Introduction to Modern Algebra
MATH 314	Linear Algebra
MATH 325	Elementary Analysis
SCMA 250	Business Programming
PHIL 110	Introduction to Logic and Critical Thinking
PHIL 211	Introduction to Modern Logic
SOCI 206	Introduction to Social Research II
STAT 218	Introduction to Statistics
STAT 380	Statistics and Applications (MATH 380)

# NCTA A.S. Degree Requirement: Problem Solving (8 Hours Required)

Acceptable UNL Equivalent Courses - ACE 4: Use scientific methods and knowledge to pose questions, frame hypotheses, interpret data, and evaluate whether conclusions about the natural and physical world are reasonable.

AGRI 115	Biotechnology: Food, Health and Environment
AGRO 131	Plant Science (HORT 131)
ANTH 142	Basics of Biological Anthropology
ANTH 232	Introduction to Archaeology
ANTH 242	Introduction to Biological Anthropology
ANTH 374	Primate Behavior and Ecology
ASTR 103	Descriptive Astronomy
ASTR 103	Life in the Universe (BIOS 117, GEOL 117)
ASTR 20	Introduction to Astronomy and Astrophysics
BIOS 101	General Biology
BIOS 110	Human Biology
CHEM 105	Chemistry in Context I
CHEM 109	General Chemistry I
CHEM 110	General Chemistry II
CHEM 113	Fundamental Chemistry I
ENTO 115	Insect Biology (BIOS 115)
FDST 131	The Science of Food (CHEM 131, NUTR 131)
FDST 301	Chemistry of Food
GEOG 155	Elements of Physical Geography
GEOG 271	Geography of the United States
GEOL 100	Introduction to Geology
GEOL 101	Dynamic Earth
GEOL 103	Evolution of the Earth

GEOL 105	Dinosaurs and the History of Life
GEOL 106	Environmental Geology
GEOL 109	Oceanography
GEOL 110	Deadly Planet
GEOL 115	The Earth's Energy Resources
GEOL 120	Geology of National Parks and Monuments
GEOL 125	Frontiers in Antarctic Geosciences
HORT 100	Plants, Landscapes, & the Environment (AGRO 100, TLMT 100)
LIFE 120	Fundamentals of Biology I
LIFE 121	Fundamentals of Biology II
METR 140	Severe and Unusual Weather
METR 180	Environment, Energy, and Climate Change
METR 100	Weather and Climate
MSYM 109	Physical Principles in Agriculture and Life Sciences
NRES 108	Earth's Natural Resource Systems Laboratory
PHYS 115	Descriptive Physics
PHYS 141	Elementary General Physics I
PHYS 142	Elementary General Physics II
PHYS 151	Elements of Physics
PHYS 211	General Physics I
PHYS 212	General Physics II
PHYS 260	Liberal Arts Physics: Matter and Motion
PHYS 261	Liberal Arts Physics: Atoms and Fields
PLPT 110	Molds and Man
POLS 250	Genetics, Brains, and Politics
PSYC 273	Brain & Behavior
SCIL 109	Water in Society (AECN 109, ENVR 109, GEOG 109, NRES 109)
TMFD 206	Textiles

# NCTA A.S. Degree Requirement: Intercultural Knowledge & Competence (3 Hours Required)

BSAD 420:

Acceptable UNL Equivalent Courses - ACE 9: Exhibit global awareness or knowledge of human diversity through analysis of an issue.

ADPR 438:	Global Advertising
ADPR 480:	Japanese Visual Culture in Context (ARTP 480/880)
AECN 346:	World Food Economics
AECN 367:	Agricultural Development in Developing Countries
AECN 420:	International Food and Agricultural Trade
AECN 425:	Agricultural Marketing in a Multinational Environment
AGRI 282:	Introduction to Global Agricultural and Natural Resources Issues
AGRI 310:	Study Tours in International Agriculture
AGRO 107:	Invasive Plant Species: Impacts on Ecosystems (NRES 107)
AHIS 160:	Introduction to Asian Art
AHIS 206:	Art of Ancient Egypt & Mesopotamia (ANTH 206, CLAS 206)
ANTH 110:	Introduction to Anthropology
ANTH 237:	Ancient Mesoamerica (ETHN 237, LAMS 237)
ANTH 252:	World Archaeology, Global Heritage (CLAS 252)
ANTH 386:	Digital Heritage Tools
ANTH 442:	Human Variation
ARAB 288:	Exploring Love, Sexuality and Femininity in the History of Arabic Culture (RELG 288,
	WMNS 288)
ARAB 306:	Women in Quran (MRST 306, RELG 306, WMNS 306)
BSAD 320:	Global Issues

Global Leadership and the Culture Map

CLAS 183: Heroes, Wives, and Slaves (HIST 183)
COMM 211: Intercultural Communication (ETHN 211)
CRIM 338: Race, Ethnicity and Criminal Justice

CYAF 495: Special Topics in Family and Cultural Diversity ECON 321: Introduction to International Economics

EDPS 121: U.S. Education in the Age of Globalization (CYAF 121) ENGL 212: Introduction to LGBTQ Literature (WMNS 212)

ENG 215: Introduction to Women's Literature (WMNS 215) ENG 242: Global Literatures since 1850 (GLST 242)

ENGL 244: African American Literature since 1865 (ETHN 244)
ENGL 244A: Introduction to African Literature (ETHN 244A)
ENGL 344B: Black Women Authors (ETHN 344B, WMNS 344B)

ENGL 344D: Caribbean Literature (ETHN 344D)

ENGL 244E: African American Literature before 1865 (ETHN 244E)
ENGL 245A: Introduction to Asian American Literature (ETHN 245A)
ENGL 245N: Introduction to Native American Literature (ETHN 245N)

ENGL 345D: Chicana and/or Chicano Literature (ETHN 345D)

ENGL 245J: Jewish-American Literature (JUDS 245J)

ENGL 345N: Native American Women Writers (ETHN 345N, WMNS 345N)

ENGL 312: LGBTQ Literature and Film (WMNS 312)
ENGL 315A: Survey of Women's Literature (WMNS 315A)
ENGL 315B: Women in Popular Culture (WMNS 315B)
ENGL 346: Cuban-American Literature (ETHN 346)

ENGL 376: Rhetoric: Argument and Society
ENGR 200: Professionalism and Global Perspective
ENGR 490: Global Experiences in Engineering

ENSC 110: Energy in Perspective

ENVR 249: Individual and Cultural Perspectives on the Environment (NRES 249)

ETHN 100: Introduction to Ethnic Studies

ETHN 200: Introduction to African American Studies
ETHN 201: Introduction to Native American Studies
ETHN 202: Introduction to Latina and/or Latino Studies

ETHN 203: Introduction to Africa

GEOG 140: Introductory Human Geography GEOG 181: Quality of the Environment GEOG 272: Geography of World Regions GEOG 378: Geography of Latin America

GEO 380: Geography of Africa (ETHN 380, NRES 380)

GEOL 125: Frontiers in Antarctic Geosciences

GPSP 377: Women of the Great Plains (GEOG 377, WMNS 377) GPSP 378: Cultural Encounters on the Great Plains (COMM 378)

HIST 113: History of Hip Hop (ETHN 113) HIST 114: History of Modern Crime HIST 120: World History to 1500 CE HIST 121: World History Since 1500 CE

HIST 150: African Culture and Civilization (ETHN 150)

HIST 171: History of Latin America (ETHN 171)

HIST 181: Introduction to East Asian Civilization (POLS 171) HIST 217: Israel: The Holy Land (JUDS 217, RELG 217)

HIST 214: History of Islam (RELG 214)

HIST 219: Introduction to Jewish History (JUDS 219, RELG 219)

HIST 225: Women in History (WMNS 225) HIST 241: Native American History (ETHN 241)

HIST 358: Native American Women (ETHN 358, WMNS 358) HIST 247: African American History: After 1877 (ETHN 247) HIST 251: North American West: Borders, Nations, & Peoples HIST 282: Modern East Asia

HIST 285: Africa Since 1800 (ETHN 285)

HORT 200: Landscape and Environmental Appreciation (GEOG 200, LARC 200)

JOMC 222: Social Justice, Human Rights and the Media JOMC 380: Global News in the Age of Social Media MNGT 365: Managing Diversity in Organizations MNGT 414: Leadership in a Global Context

MODL 383: Women Write the World (ENGL 383, GLST 383, WMNS 383)

MUSC 280: World Music (MUNM 280)

NRES 104: Climate in Crisis

NRES 494: International Study Tours in Natural Resource Management

NUTR 253: Cultural Aspects of Food and Nutrition

PHIL 106: Philosophy and Current Issues
PHIL 218: Philosophy of Feminism
PHIL 225: Environmental Ethics
PHIL 265: Philosophy of Religion

PHIL 325: Advanced Social Political Philosophy POLS 160: International Relations (GLST 160)

POLS 238: Blacks and the American Political System (ETHN 238)

POLS 333: Immigration and Politics (ETHN 333)

POLS 375: Conflict and Development in Africa (ETHN 375)

PSYC 330: Psychology of Diversity

RELG 108: World Religions

RELG 118: Introduction to Hinduism, Buddhism, and Daoism RELG 134: Religious Diversity in America (HIST 134)

RELG 181: Judaism, Christianity and Islam

RELG 208: Introduction to Islam

RELG 209: Judaism and Christianity in Conflict and Coexistence (JUDS 209)

RELG 215: Religion and Culture Before 1000 C.E.

RELG 218: Buddhism

RELG 226: The History of African-American Religious Experience (HIST 226)

RELG 230: Tibetan Buddhism

SLPA 488: Linguistic Needs of Bilingual and Culturally Different Students

SOCI 200: Gender in Contemporary Society (WMNS 200)

SOCI 201: Social Problems

SOCI 217: Sociology of Race and Ethnicity (ETHN 217)

SOCI 226: Families and Society (WMNS 226)
SPAN 321: Exploring Hispanic Culture: Spain
SPAN 331: Latin American Civilization (LAMS 331)
TEAC 330: Multicultural Education (ETHN 330)

TMFD 123: Clothing and Society: You Are What You Wear WMNS 101: Introduction to Women's and Gender Studies

WMNS 201: Introduction to Lesbian, Gay, Bisexual, Trans-gender, Queer/Sexuality Studies

WMNS 250: Sex and Gender Around the Globe WMNS 385: Women, Gender and Science

#### NCTA A.S. Degree Requirement: Civic Engagement (3 Hours Required)

Acceptable UNL Equivalent Courses - ACE 8: Use knowledge, theories, and analysis to explain ethical principles and their importance in society.

AECN 445: Agricultural and Natural Resource Policy Analysis (NREE 445)

ALEC 125: Land, Food and People ALEC 165: Pepsi Service Scholars

ALEC 388: Ethics in Agriculture and Natural Resources (AECN 388)

ANTH 332: Archaeological Collections and Collections Management
ANTH 352: Indigenous Peoples of the Great Plains (ETHN 352)
ARCH 107: Sustainability Basics and the Build Environment

Business, Government & Society

BIOS 232: Ecological Issues in the Great Plains

CLAS 222: Sparta

BLAW 300:

CNST 420: Professional Practice and Ethics

COMM 220: Public Advocacy and Civic Engagement

COMM 375: Theories of Persuasion

CONE 206: Engineering Economics (BSEN 206)

CRPL 400: Introduction to Planning

CSCE 486: Computer Science Professional Development CSCE 488: Computer Engineering Professional Development

CYAF 150: Life Skills for Success

Human Dimensions of Sustainability CYAF 460: ECON 200: Economic Essentials and Issues ECON 211: Principles of Macroeconomics ECON 212: Principles of Microeconomics ENGL 210P: Literature of War and Peace ENGL 275: Introduction to Rhetorical Theory ENGL 376: Rhetoric: Argument and Society ENGR 320: Leadership, Management and Ethics Technology, Science and Civilization ENGR 469:

ENVR 201: Science, Systems, Environment and Sustainability

ETHN 100: Introduction to Ethnic Studies

ETHN 200: Introduction to African American Studies
ETHN 201: Introduction to Native American Studies
HIST 115: Making & Breaking Law in US History

HIST 243: Early America to 1800 HIST 244: 19th Century America HIST 245: Modern America Since 1900

HIST 265: The Global History of American Capitalism JOMC 222: Social Justice, Human Rights and the Media

JOMC 487: Mass Media and Society

MUNM 386: History of Rock and Roll: Classic Artists (MUSC 386)

NAVS 401: Naval Leadership and Management NRES 330: Environmental Health (NUTR 330)

PHIL 101: Introduction to Philosophy
PHIL 105: The Philosophy of Food
PHIL 106: Philosophy and Current Issues

PHIL 213: Medical Ethics
PHIL 221: Political Philosophy
PHIL 225: Environmental Ethics
PHIL 230: Philosophy of Law
PHIL 320: Ethical Theory

PHIL 323: Topics in Applied Ethics

PHIL 325: Advanced Social Political Philosophy
POLS 100: Power and Politics in America

PSYC 334: Psychology of Environmental Sustainability (ENVR 334)

RELG 227: Religion and Politics in America (HIST 227)

SCIL 109: Water in Society (AECN 109, ENVR 109, GEOG 109, NRES 109)

SOCI 362: Ethics and the Responsible Conduct of Research

TEAC 331: School and Society

WMNS 210: Activism and Feminist Communities

## NCTA A.S. Degree Requirement Information Literacy (1 Hour Required)

Acceptable UNL Equivalent Courses - ACE 8: This course is required of all CASNR students.

SCIL 101: Science and Decision Making for a Complex World

# SPECIALIZATION CORE COURSES

Associate of Science – Agribusiness Management Systems Obtion (2) credits need	<ul> <li>Agribusiness Management Systems Option (27 credits neede</li> </ul>	vstems Option (2	Management S <sup>,</sup>	- Agribusiness	Associate of Science -
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AECN 201	Farm and Ranch Management
AECN 225 / EAEP 225 / MRKT 225	Agribusiness Entrepreneurship in Food Products Marketing
AECN 235	Introduction to Commodity Marketing
AECN 256	Legal Aspects in Agriculture
BLAW 300	Business, Government & Society
AECN 316	Agribusiness Management
AECN 452	Agricultural Finance
FINA 300	Financial Decision Making
FINA 361	Finance
AECN 420	International Food and Agricultural Trade
AECN 425	Agricultural Marketing in a Multinational Environment
AECN 435	Advanced Agricultural Marketing Management
AECN 445 / NREE 445	Agricultural and Natural Resource Policy Analysis
AECN 453	Agricultural and Rural Property Appraisal
SCMA 331	Operations and Supply Chain Management
MNGT 300	Management Essentials For Contemporary Organizations
MNGT 301	Introduction to Management
MNGT 360	Managing Behavior in Organizations
MNGT 361	Human Resource Management
MRKT 300	Contemporary Marketing
MRKT 341 / ABUS 341	Marketing
ACCT 201	Principles of Accounting 1
ACCT 202	Principles of Accounting II
ECON 211	Principles of Macroeconomics
ECON 212	Principles of Microeconomics
AECN 141	Introduction to the Economics of Ag
HORT 388	Agribusiness Entrepreneurship

## Associate of Science - Agronomy Option (24 credits needed)

AGRO 153	Soil Resources
AGRO 204	Resource-Efficient Crop Management
AGRO 240	Forage and Range Management
AGRO 269	Principles of Soil Management
AGRO 366	Soil Nutrient Relationships
AGRO 405	Crop Management Strategies
AGRO 426	Invasive Plants
AGRO 431	Site-specific Crop Management
AGRO 452	Irrigation Systems Management
ECON 211	Principles of Macroeconomics
ECON 212	Principles of Microeconomics
AECN 141	Introduction to the Economics of Ag
AECN 201	Farm and Ranch Management
AECN 325	Marketing of Agricultural Commodities

# Associate of Science - Mechanized Systems Management Option (29 credits needed)

AGRO 153	Soil Resources
AGRO 204	Resource-Efficient Crop Management
AGRO 366	Soil Nutrient Relationships
AGRO 405	Crop Management Strategies
MSYM 232	Power and Machinery Principles

MSYM 245	Electrical Service Systems
MSYM 412	Hydraulic Power Systems
MSYM 431	Site-specific Crop Management
MSYM 452	Irrigation Systems Management
ECON 211	Principles of Macroeconomics
ECON 212	Principles of Microeconomics
AECN 201	Farm and Ranch Management
AECN 325	Marketing of Agricultural Commodities

Animal Management

ASCI 250

ALEC 102	Interpersonal Skills for Leadership
ALEC 104	Wood Technology
ALEC 108	Food in Society
ALEC 125	Land, Food, and People
ALEC 134	Agricultural Leadership, Education and Communication Careers
ALEC 135	Early Field Experience in Agricultural Leadership, Education and Communication
ALEC 201	Electricity/ Electronics
ALEC 202	Foundations of Leadership Theory and Practice
ALEC 205	Welding Technology
ALEC 234	Planning Leadership and Experience Programs
ALEC 242	Construction Technology
ALEC 302	Dynamics of Effective Leadership in Organizations
ALEC 305	Presentation Strategies for Agricultural Audiences
ALEC 308	Laboratory Instruction and Management
ALEC 494	Undergraduate Seminar in Agricultural Education

## Associate of Science – Animal Science Option (27 credits needed)

Associate of Science – A	nimai Science Option (27 credits needed)
ASCI 95	Animal Science Major Orientation Seminar
ASCI 100	Fundamentals of Animal Biology and Industry
ASCI 100L	Fundamentals of Animal Biology and Industry Laboratory
ASCI 101	Introduction to Animal Sciences
ASCI 150	Animal Production Skills
ASCI 200	Animal and Carcass Evaluation
ASCI 210	Animal Products
ASCI 213	Meat Specifications and Procurement
ASCI 240	Anatomy and Physiology of Domestic Animals
ASCI 250	Animal Management
ASCI 252	Introduction to the Horse Industry and Management
ASCI 254	Basic Swine Science
ASCI 260	Basic Equitation
ASCI 300A	Principles of Meat Evaluation, Grading and Judging
ASCI 300B	Principles of Livestock Evaluation and Judging
ASCI 300E	Principles of Horse Evaluation and Judging
ASCI 310	Fresh Meats
ASCI 315	Animal Growth and Development
ASCI 320	Animal Nutrition and Feeding
ASCI 322	Equine Nutrition
ASCI 330	Animal Breeding
ASCI 340	Animal Physiological Systems
ASCI 341	Physiology and Management of Reproduction
ASCI 342	Equine Reproduction
ASCI 400A	Advanced Meat Grading and Evaluation
ASCI 400B	Advanced Livestock Evaluation and Judging
ASCI 455	Beef Cow-Calf Management
ASCI 457	Beef Feedlot Management