GRADUATE CERTIFICATES

Agricultural Sciences and Natural Resources

Advanced Horticulture

To earn the Graduate Certificate in Advanced Horticulture:

1. Apply and get admitted toward this certificate objective. (http://www.unl.edu/gradstudies/prospective/programs/Cert_AdvancedHorticulture)
2. Consult an advisor to develop a plan of study.
3. Complete 12 credit hours from the following course list, with a grade of B or higher in all courses.

Choose from

- HORT 824 Plant Nutrition and Nutrient Management 3
- HORT 843E Advanced Interiorscaping 3
- HORT 843K Advanced Arboriculture 3
- HORT 844A Environmental Nursery Production Practices 3
- HORT 844E General Viticulture 3
- HORT 888 Business Management for Agricultural Enterprises 3
- HORT 842E Floral Crops Production and Handling 2
  or HORT 843A Greenhouse Crop Production 3
- HORT 842B Plant Physiology 3
  or HORT 842J Water Issues in Lawn and Landscape 3

Floriculture and Nursery Production Management

To earn the Graduate Certificate in Floriculture and Nursery Production Management:

1. Apply and get admitted toward this certificate objective. (http://www.unl.edu/gradstudies/prospective/programs/Cert_Floriculture)
2. Consult an advisor to develop a plan of study.
3. Complete a minimum of 12 credit hours with grades of B or higher in all classes. Only 1 course per "or" group below may be applied toward this certificate.

Core Courses (min 5 cr)

- HORT 824 Plant Nutrition and Nutrient Management 3
  or HORT 842 Plant Physiology 2
- HORT 842E Floral Crops Production and Handling 2
  or HORT 843A Greenhouse Crop Production 3
  or HORT 844A Environmental Nursery Production Practices 3

Electives (min 7 cr)

- HORT 843B Seed Sciences 3
- HORT 843E Advanced Interiorscaping 3
- HORT 844B Advanced Arboriculture 1
- HORT 888 Business Management for Agricultural Enterprises 3
- ENTO 803 Management of Horticultural Crop Insects 3
  or ENTO 812 Entomology and Pest Management 3
  or ENTO 813 Biological Control of Pests 3
  or ENTO 820 Insecticide Toxicology 3

Food Safety and Defense

To earn the Graduate Certificate in Food Safety and Defense:

1. Apply and get admitted toward this certificate objective (http://www.unl.edu/gradstudies/prospective/programs/Cert_FoodSafety).
2. Consult an advisor to develop a plan of study.
3. Complete a minimum of 12 credit hours, with 9 credit hours in core courses and a minimum of 3 elective credit hours.

Core Courses (9 cr)

- FDST 871 A Multidisciplinary Overview of Food Safety and Security (Kansas State Univ) 2
- FDST 805 Food Microbiology (Univ of Nebraska) 3
- FDST 872 Principles of Hazard Analysis and Critical Control Point System (Kansas State Univ) 2
- FDST 873 Food-borne Toxicants (Iowa State Univ) 2

Electives (minimum 3 cr)

- FDST 855 Microbiology of Fermented Foods (Univ of Nebraska, 2 cr) 2
- FDST 874 Food Laws, Regulations, and the Regulatory Process (Iowa State Univ, 2 cr) 2
- FDST 875 Rapid Methods in Food Microbiology (Kansas State Univ, 2 cr) 2
- FDST 876 Risk Assessment for Food, Agriculture, and Veterinary Medicine (Iowa State Univ, 3 cr) 3
- FDST 877 Advanced Food Microbiology and Biotechnology (Univ of Missouri-Columbia, 3 cr) 3

Grassland Management

To earn the Graduate Certificate in Grassland Management:

1. Apply and get admitted toward this certificate objective (http://www.unl.edu/gradstudies/prospective/programs/Cert_GrasslandManagement).
2. Consult an advisor to develop a plan of study.
3. Complete 12 credit hours as planned. Coursework may be transferred in on a case-by-case basis with approval of the student’s advisor.

Available Courses

- AGRO 843 Ecology of Invasive Species 3
- AGRO 846 Forage Quality 3
- AGRO 847 Grassland Fire Ecology 3
- AGRO 848 Grassland Monitoring and Assessment 2
- AGRO 849 Watershed Management in Grasslands 3
- AGRO 851 Grassland Plant Identification 2

Ornamentals, Landscape, and Turf

To earn the Graduate Certificate in Ornamentals, Landscape, and Turf:

1. Apply and get admitted toward this certificate objective (http://www.unl.edu/gradstudies/prospective/programs/Cert_Landscape).
2. Consult an advisor to develop a plan of study.
3. Complete 12 credit hours as described here, with grades of B or higher in all classes.

Core Courses (minimum 6 cr)
HORT 824  
Plant Nutrition and Nutrient Management 3
or HORT 842B  
Plant Physiology 3
or HORT 842J  
Water Issues in Lawn and Landscape 3
HORT 843K  
Advanced Arboriculture 3

Electives (minimum 6 cr)
HORT 814  
Turfgrass Disease Management 1
HORT 843J  
Herbicide Action 4
HORT 844B  
Environmental Stress Physiology 1
HORT 880  
Modified Rootzones 1
HORT 888  
Business Management for Agricultural Enterprises 3
HORT 813  
Turfgrass and Landscape Weed Management 1
or HORT 843M  
Weed Science 1
ENTO 803  
Management of Horticultural Crop Insects 3
or ENTO 812  
Entomology and Pest Management 1
or ENTO 813  
Biological Control of Pests 1
or ENTO 820  
Insecticide Toxicology 1
AGRO 896  
Independent Study 1-6
or ENTO 896  
Independent Study in Entomology 1-6
or HORT 842A  
Plant Pathology 1

Arts and Sciences
Digital Humanities
To earn the Graduate Certificate in Digital Humanities:

1. Apply and get admitted toward this certificate objective.
   (http://www.unl.edu/gradstudies/prospective/programs/Cert_DigitalHumanities)
2. Consult an advisor to develop a plan of study.
3. Complete 12 credit hours as described here. The certificate program is comprised of interdisciplinary coursework between English, History, and Modern Languages, and requires an internship component. Two specific courses are required; the remaining six credit hours may be drawn from courses approved by the Certificate Program Advisor. Examples of regularly taught courses that may be easily applied toward the certification are included below.

Required Courses
MODL 946 / HIST 946 / ENGL 946  
Interdisciplinary Readings in Digital Humanities 3
HIST 895 / ENGL 895 / MODL 895  
Internship in Digital Humanities 3

Example Electives (6 cr needed)
ANTH 935  
Seminar in Archaeology 3
ENGL 878 / ENGL 478  
Digital Archives and Editions 3
ENGL 898 / ENGL 498  
Special Topics 1-6

Geographic Information Science
To earn the Graduate Certificate in Geographic Information Science:

1. Apply and get admitted toward this certificate objective.
   (http://www.unl.edu/gradstudies/prospective/programs/Cert_GeographicInformationScience)
2. Consult an advisor to develop a plan of study.
3. Complete 22 credit hours and a comprehensive examination. These must include the following unless a student can demonstrate that he/she has previously taken equivalent courses or has professional experience that would provide equivalent training.

Core Courses
GEOG 812 / NRES 812  
Introduction to Geographic Information Systems 4
GEOG 818 / NRES 818  
Introduction to Remote Sensing 4
GEOG 827  
Introduction to the Global Positioning System (GPS) 2
GEOG 898  
Advanced Special Problems 1-24

Electives
GEOG 817  
Cartography II: Electronic Atlas Design and Production 3
GEOG 819 / AGRO 819 / GEOL 819  
Applications of Remote Sensing in Agriculture and Natural Resources 4
GEOG 820  
Digital Image Analysis of Remote Sensing Data 4
GEOG 822  
Advanced Techniques in Geographic Information Systems 4
GEOG 844  
Geo-demographic and Geographic Information Systems (GIS) 3
GEOG 922  
Seminar in Geographic Information Systems (GIS) 3
CIVE 853  
GIS in Water Resources 3
CIVE 962  
Application of Geographic Information Systems GIS to Transportation 3
CRPL 830  
Planning with GIS 3
CRPL 895  
Selected Topics in Community and Regional Planning 1-9
CRPL 832  
Advanced Spatial Analysis with GIS 3
CRPL 833  
GIS in Environmental Design and Planning 3
STAT 831  
Spatial Statistics 3

Teaching of Writing
To earn the Graduate Certificate in Teaching of Writing:

1. Apply and get admitted toward this certificate objective.
   (http://www.unl.edu/gradstudies/prospective/programs/Cert_TeachingOfWriting)
2. Consult an advisor to develop a plan of study.
3. Complete 5 courses as listed below for a total of 15-18 credit hours, which may include up to 6 cr outside the English Department.
Required: Take at least one

- ENGL 857A Composition and Rhetorical Theory
- ENGL 957 Composition Theory and Practice
- ENGL 957B Nebraska Writing Project

Electives in English

- ENGL 857 Composition Theory and Practice
- ENGL 857B Nebraska Writing Project
- ENGL 875 Rhetoric
- ENGL 875A Rhetorical Theory: Rhetoric of Women Writers
- ENGL 895 Internship in Teaching English
- ENGL 895A Nebraska Writing Project Internship
- ENGL 880 Writing Center Theory, Practice, and Research
- ENGL 882 Literacy Issues and Community
- ENGL 973 Seminar in Literacy Studies
- ENGL 976 Seminar in Rhetorical Theory
- ENGL 992B Place Conscious Teaching

Other Electives (maximum 6 cr)

- TEAC 813 Studies in Teaching English as a Second Language
- TEAC 818 Teaching Writing in K-12 Schools
- TEAC 838 Linguistics for the Classroom School Teacher
- TEAC 840 Culture and Schooling
- TEAC 921 Seminar in Literacy Studies
- TEAC 944A Curriculum as Aesthetic Text
- TEAC 950 Contextual Research in English/Language Arts
- TEAC 952 Language and Learning
- TEAC 953 Seminar on Writing in the Curriculum

### Business Administration

#### Business Analytics

To earn the Graduate Certificate in Business Analytics:

1. Apply and get admitted toward this certificate objective (http://www.unl.edu/gradstudies/prospective/programs/Cert_BusinessAnalytics).
2. Consult an advisor to develop a plan of study.
3. Complete 12 credit hours as listed below, in this sequence starting with GRBA 851. (Exception: Certificate applicants admitted in 2014 may begin the sequence with ECON 817 and take GRBA 851 in the summer.)

Required courses

- GRBA 851 Business Analytics 3
- ECON 817 Introductory Econometrics 3
- MRKT 850 Data Driven Marketing Strategy 3
- SCMA 853 Business Data Mining and Descriptive Analytics 3

### Supply Chain Management Systems

To earn the Graduate Certificate in Supply Chain Management Systems:

1. Apply and get admitted toward this certificate objective. (http://www.unl.edu/gradstudies/prospective/programs/Cert_SupplyChain)
2. Consult an advisor to develop a plan of study.
3. Complete 12 credit hours: GRBA 815 plus 3 of the other 4 courses listed, with a grade of C or better in each.

Required

- GRBA 815 Supply Chain Management Strategies 3
- SCMA 831 Advanced Enterprise Systems 3
- SCMA 832 Planning and Controlling Supply Chain Systems 3
- SCMA 834 Advanced Topics in Lean Supply Chain Management 3
- SCMA 844 Managing Logistics in the Supply Chain 3

### Survey Research and Methodology

To earn the Graduate Certificate in Survey Research and Methodology:

1. Apply and get admitted toward this certificate objective. (http://www.unl.edu/gradstudies/prospective/programs/Cert_SRAM)
2. Consult an advisor to develop a plan of study.
3. Complete 12 credit hours (1 required course plus 3 of the 4 electives) as described here.

Required

- SRAM 865 / SOCI 865 Survey Design and Analysis 3
- SRAM 816 Principles of Survey Analysis 3
- SRAM 818 / SOCI 818 Data Collection Methods 3
- SRAM 819 / SOCI 947 / PSYC 947 Questionnaire Design 3

#### Education and Human Sciences

#### Behavior Specialist

To earn the Graduate Certificate in Behavior Specialist:

1. Apply and get admitted toward this certificate objective (http://www.unl.edu/gradstudies/prospective/programs/Cert_BehaviorSpecialist).
2. Consult an advisor to develop a plan of study.
3. Complete 18 credit hours as listed below, with a grade of B- or higher in all classes.

Required Courses

- SPED 809 Autism Spectrum Disorders (ASDs): Effective Assessment and Intervention 3
- SPED 824 Functional Behavioral Assessment 3
- SPED 843 Characteristics of Emotional & Learning Disorders 3
- SPED 907B Seminar in Special Education - Behavior Disorders 1-3
Graduate Certificates

SPED 954 School Mental Health and Behavior Interventions 3
SPED 942 Strategic Interventions for Students with Behavioral Needs 1-3

Community College Leadership
To earn the Graduate Certificate in Community College Leadership:

1. Apply and get admitted toward this certificate objective (http://www.unl.edu/gradstudies/prospective/programs/Cert_CommunityCollegeLeadership).
2. Consult an advisor to develop a plan of study.
3. Complete 15 credit hours as described here.

Required Courses
EDAD 923 The Community/Junior College 3
EDAD 929 Organizational Development and Change 3
EDAD 935 Workforce, Economic, and Community Development 3
EDAD 934 Teaching and Learning in the Community College 3
EDAD 912B Emerging Issues in Community College Leadership 3

Early Childhood Special Education
To earn the Graduate Certificate in Early Childhood Special Education:

1. Apply and get admitted toward this certificate objective (http://www.unl.edu/gradstudies/prospective/programs/Cert_EarlyChildhoodSpecialEd).
2. Consult an advisor to develop a plan of study.
3. Complete 12 credit hours as listed below, with grades of B= or higher in all courses.

Required Courses
SPED 860 Issues in Early Childhood Special Education 3
SPED 861 Infants with Disabilities and Home Visiting 3
or SPED 862 Preschool Children with Disabilities in a Classroom 3
SPED 960 Family and School Collaboration in Special Education 3
SPED 863 Medically Fragile infants or SPED 882 Specialized Instruction for Students with Severe and Multiple Disabilities 3

Early Literacy
To earn the Graduate Certificate in Early Literacy:

1. Apply and get admitted toward this certificate objective (http://www.unl.edu/gradstudies/prospective/programs/Cert_EarlyLiteracy).
2. Consult an advisor to develop a plan of study.
3. Complete 15 credit hours as described below, with an overall minimum GPA of 3.0. Only one course per “or” group may be applied toward the certificate.

Required
TEAC 802 Contemporary Children’s Literature: Principles and Practices 3
TEAC 854 Literature in Education 1-9

TEAC 817 Emerging Reading and Language 3
TEAC 813A Second Language Acquisition or TEAC 811 Reading Processes and Practices 1-3

Electives (choose 2)
CYAF 874 Assessment in Early Childhood 3
PSYC 889 Child Behavior and Development 3
TEAC 811 Reading Processes and Practices 1-6
TEAC 836A Professional Development: Literacy Coaching 3
TEAC 890 Workshop Seminar (section must be approved by advisory committee) 1-12
SLPA 887 Language and Learning Disorders 3
SPED 802 Advanced Assessment Techniques 3
SPED 805 Code-based Reading Instruction 1-3
SPED 815 Reading and Writing Disabilities: Elementary Students 2
or SPED 815A Practicum in Reading and Writing Disabilities-Elementary 3
SPED 890 Workshop Seminar 1-12

Family Financial Planning
To earn the Graduate Certificate in Family Financial Planning:

1. Apply and get admitted toward this certificate objective (http://www.unl.edu/gradstudies/prospective/programs/Cert_FamilyFinancialPlanning).
2. Consult an advisor to develop a plan of study.
3. Complete 18 credit hours as listed here.

Required Courses
CYAF 821 Insurance Planning for Families 3
CYAF 823 Estate Planning for Families 3
CYAF 828 Retirement Planning, Employee Benefits and the Family 3
CYAF 836 Financial Planning Case Studies 3
CYAF 840 Personal Income Taxation 3
CYAF 883 Investing for the Family’s Future 3

Financial & Housing Counseling
To earn the Graduate Certificate in Financial & Housing Counseling:

1. Apply and get admitted toward this certificate objective (http://www.unl.edu/gradstudies/prospective/programs/Cert_FinHousingCounseling).
2. Consult an advisor to develop a plan of study.
3. Complete 18 credit hours as listed below.

Required Courses
CYAF 825 Reading in the Content Area 3
CYAF 822 Financial Counseling 3
CYAF 824 Fundamentals of Financial Planning 3
CYAF 841 Housing/Real Estate 3

Electives: Choose 2 courses (6 cr)
CYAF 821 Insurance Planning for Families 3
CYAF 823 Estate Planning for Families 3
CYAF 826 Military Personal Financial Readiness 3
### K-3 Mathematics Specialist

To earn the Graduate Certificate in K-3 Mathematics Specialist:

1. Apply and get admitted toward this certificate objective (http://www.unl.edu/gradstudies/prospective/programs/Cert_MathSpecialist).
2. Consult an advisor to develop a plan of study.
3. Complete 18 credit hours as described: the prerequisite course, then the 5 required courses.

**Prerequisite**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 800P</td>
<td>Number and Operation for K-3 Mathematics Specialists</td>
<td>3</td>
</tr>
</tbody>
</table>

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 801P</td>
<td>Geometry, Measurement, and Algebraic Thinking for K-3 Mathematics Specialists</td>
<td>3</td>
</tr>
<tr>
<td>MATH 802P</td>
<td>Number, Geometry and Algebraic Thinking II for K-3 Math Specialists</td>
<td>3</td>
</tr>
<tr>
<td>TEAC 808A</td>
<td>Improvement of Instruction in School Mathematics Primary: K-3</td>
<td>3</td>
</tr>
<tr>
<td>TEAC 808J</td>
<td>Improvement of Instruction in School Mathematics Special Topics</td>
<td>3</td>
</tr>
<tr>
<td>TEAC 907</td>
<td>Seminar in Elementary School Mathematics</td>
<td>3</td>
</tr>
</tbody>
</table>

### Medical Family Therapy

To earn the Graduate Certificate in Medical Family Therapy:

1. Apply and get admitted toward this certificate objective (http://www.unl.edu/gradstudies/prospective/programs/Cert_MedicalFamilyTherapy).
2. Consult an advisor to develop a plan of study. There are two approaches to completing this certificate:
   - **Approach A:** Those who hold a qualifying degree will be able to complete the certificate program within one year by taking the four core courses and practicum. For information on qualifying degrees and prerequisites, contact the department.
   - **Approach B:** Those who do not hold a qualifying degree may complete the certificate as a standalone non-degree objective or as part of the Child, Youth and Family Studies master's degree with a specialization in Marriage and Family Therapy. Requirements:
     - The core courses and practicum (as for option A)
     - The seven "other required courses" listed below
     - Nine credit hours in individual development and family relations. Courses offered through UNL, UNMC, UNO, and other institutions will be considered on an individual basis. Courses from the UNL Marriage and Family Therapy Program which fulfill this include: CYAF 872, 881, 882, 883, 888, 980, 984.
3. Complete 15 (option A) or 45 (option B) credit hours as described here.

**Core Courses and Practicum**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CYAF 951</td>
<td>Theoretical Foundations of Marriage and Family Therapy</td>
<td>3</td>
</tr>
<tr>
<td>FMED 741</td>
<td>Theory and Practice of Medical Family Therapy (UNMC)</td>
<td>3</td>
</tr>
<tr>
<td>FMED 742</td>
<td>Families, Health, and Illness (UNMC)</td>
<td>3</td>
</tr>
<tr>
<td>FMED 743</td>
<td>Applied Medical Family Therapy (UNMC)</td>
<td>3</td>
</tr>
<tr>
<td>FMED 744</td>
<td>Clinical Practicum (UNMC)</td>
<td>3</td>
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</tbody>
</table>

**Other Required Courses**

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CYAF 952</td>
<td>Psychopathology and Dysfunctional Interactions</td>
<td>3</td>
</tr>
<tr>
<td>CYAF 954</td>
<td>Assessment in Family Therapy</td>
<td>3</td>
</tr>
<tr>
<td>CYAF 955</td>
<td>Clinical Family Therapy (Must take both 955A and 955B)</td>
<td>3</td>
</tr>
<tr>
<td>CYAF 956</td>
<td>Couples and Sex Therapy</td>
<td>3</td>
</tr>
<tr>
<td>CYAF 953</td>
<td>Issues and Ethics for Family Professionals</td>
<td>3</td>
</tr>
<tr>
<td>CYAF 865</td>
<td>Research Design and Methods</td>
<td>3</td>
</tr>
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</table>

**Individual development and family relations (9 cr, courses vary)**

### Mixed Methods Research

To earn the Graduate Certificate in Mixed Methods Research:

1. Apply and get admitted toward this certificate objective (http://www.unl.edu/gradstudies/prospective/programs/Cert_MixedMethodsResearch).
2. Consult an advisor to develop a plan of study. Participants must complete two statistics courses, one measurements course, two qualitative methods courses, and one mixed methods course. See EDPS QQPM courses (http://cehs.unl.edu/documents/edpsych/QQPMSched2015-19.pdf) for details about when these are offered. With advisor and committee approval, students may transfer in three credit hours in either the Statistics area or the Qualitative Methods area; credit hours must be from an accredited institution.
3. Complete 18 credit hours as described here, with a grade of B or better in each course.

**Statistics: Choose 2 courses (6 cr)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>EDPS 859</td>
<td>Statistical Methods ¹</td>
<td>3</td>
</tr>
<tr>
<td>EDPS 860</td>
<td>Applications of Selected Advanced Statistics ¹</td>
<td>3</td>
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</table>

**Intermediate Statistics: Experimental Methods**

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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>EDPS 941</td>
<td>Intermediate Statistics: Experimental Methods</td>
<td>3</td>
</tr>
<tr>
<td>EDPS 942</td>
<td>Intermediate Statistics: Correlational Methods</td>
<td>3</td>
</tr>
</tbody>
</table>

**Structural Equation Modeling**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>EDPS 971</td>
<td>Structural Equation Modeling</td>
<td>3</td>
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</table>

**Multivariate Analysis**

<table>
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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>EDPS 972</td>
<td>Multivariate Analysis</td>
<td>3</td>
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</tbody>
</table>

**Measurement: Choose 1**

<table>
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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EDPS 870</td>
<td>Introduction to Educational and Psychological Measurement ¹</td>
<td>3</td>
</tr>
<tr>
<td>EDPS 970</td>
<td>Theory and Methods of Educational Measurement</td>
<td>3</td>
</tr>
</tbody>
</table>
Qualitative Methods: Choose 2 courses (6 cr)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDPS 900K</td>
<td>Qualitative Approaches to Educational Research</td>
<td>3</td>
</tr>
<tr>
<td>EDPS 935</td>
<td>Seminar in Qualitative Research</td>
<td>3</td>
</tr>
<tr>
<td>EDPS 930A</td>
<td>Ethnographic Methods</td>
<td>1-3</td>
</tr>
<tr>
<td>EDPS 930D</td>
<td>Discourse Analysis Across School, Home and Community Settings</td>
<td>1-3</td>
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</tbody>
</table>

Mixed Methods: Choose 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>EDPS 859</td>
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<tr>
<td>EDPS 860</td>
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<td>EDPS 870</td>
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<tr>
<td>EDPS 900K</td>
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<tr>
<td>EDPS 935</td>
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<tr>
<td>EDPS 936</td>
<td>Mixed Methods Research</td>
<td>3</td>
</tr>
</tbody>
</table>

1 EDPS 859, EDPS 860, EDPS 870, EDPS 900K, EDPS 935, and EDPS 936 may be completed online.

Nutrition, Non-coding RNAs, and Extracellular Vesicles (N2V)

To earn the Graduate Certificate in Nutrition, Non-coding RNAs, and Extracellular Vesicles (N2V):

1. Apply and get admitted toward this certificate objective.
2. Consult an advisor to develop a plan of study.
3. [Course and credit hour requirements coming soon...]

Quilt Studies

To earn the Graduate Certificate in Quilt Studies:

1. Apply and get admitted toward this certificate objective (http://www.unl.edu/gradstudies/prospective/programs/Cert_QuiltStudies).
2. Consult an advisor to develop a plan of study.
3. Complete 12 credit hours as described here: three required courses and one elective approved by the Certificate Program Advisor.

Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TMFD 818</td>
<td>Quilts, History, Culture</td>
<td>3</td>
</tr>
<tr>
<td>TMFD 905A</td>
<td>Advanced Problems: Textiles</td>
<td>1-6</td>
</tr>
<tr>
<td>TMFD 905D</td>
<td>Advanced Problems: Design</td>
<td>1-6</td>
</tr>
<tr>
<td>Elective (3 cr): Examples of regularly taught courses that may be applied:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TMFD 997</td>
<td>Internship</td>
<td>1-9</td>
</tr>
<tr>
<td>TMFD 978</td>
<td>Seminar in Textile History (Various topics offered as 1-week summer seminars. E.g., Colonial Revival Quilts, Quilts of the Depression Era, A Century of Quilts in Women's Lives, 18th and 19th Century Dyeing and Printing Techniques, Quilts of India and Pakistan, Repair and Stabilization of Quilts.)</td>
<td>1-3</td>
</tr>
<tr>
<td>TMFD 890</td>
<td>Workshop/Seminar (Craft, Culture, and Fashion)</td>
<td>1-3</td>
</tr>
</tbody>
</table>

Sensory Disabilities

To earn the Graduate Certificate in Sensory Disabilities:

1. Apply and get admitted toward this certificate objective (http://www.unl.edu/gradstudies/prospective/programs/Cert_SensoryDisabilities).
2. Consult an advisor to develop a plan of study.
3. Complete 12 credit hours as described here.

Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPED 846</td>
<td>Foundations of Visual Impairment: Programs and Services for Individuals with Visual Impairments</td>
<td>3</td>
</tr>
<tr>
<td>SPED 872</td>
<td>Psychology and Sociology of Deafness</td>
<td>3</td>
</tr>
<tr>
<td>SPED 960</td>
<td>Family and School Collaboration in Special Education</td>
<td>3</td>
</tr>
<tr>
<td>SPED 852</td>
<td>Instructional Methods for Teachers of Students with Visual Impairments or Deaf or Hard of Hearing: Content Methods</td>
<td>3</td>
</tr>
</tbody>
</table>

Teaching English to Speakers of Other Languages

To earn the Graduate Certificate in Teaching English to Speakers of Other Languages:

1. Apply and get admitted toward this certificate objective (http://www.unl.edu/gradstudies/prospective/programs/Cert_TeachingEnglish).
2. Consult an advisor to develop a plan of study.
3. Complete 12 credit hours as described here: 4 courses at 3 credit hours each, maintaining a 3.25 GPA for these courses and earning a grade of B or better in each course. Up to 6 credit hours of relevant previous coursework may be applied.
Graduate Certificates

**Required Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEAC 813A</td>
<td>Second Language Acquisition</td>
<td>1-3</td>
</tr>
<tr>
<td>TEAC 813K</td>
<td>Linguistics for Language Teachers</td>
<td>1-3, 3</td>
</tr>
<tr>
<td>TEAC 813P</td>
<td>Teaching English as an International Language</td>
<td>3</td>
</tr>
</tbody>
</table>

**Elective: Take at least 1 of these courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEAC 813D</td>
<td>World Languages Assessment</td>
<td>1-3</td>
</tr>
<tr>
<td>TEAC 813E</td>
<td>Special Topics in TESOL</td>
<td>1-6</td>
</tr>
<tr>
<td>TEAC 813J</td>
<td>Intercultural Communication</td>
<td>3</td>
</tr>
<tr>
<td>TEAC 813M</td>
<td>Teaching Multilingual Learners in Content Areas</td>
<td>3</td>
</tr>
<tr>
<td>TEAC 833A</td>
<td>Comparative Education Survey</td>
<td>3</td>
</tr>
<tr>
<td>TEAC 833B</td>
<td>Comparative Education: Special Topics/Travel Study</td>
<td>3-9</td>
</tr>
<tr>
<td>TEAC 897E</td>
<td>Student Teaching Internship: English as a Second Language</td>
<td>1-10</td>
</tr>
<tr>
<td>TEAC 838</td>
<td>Linguistics for the Classroom School Teacher</td>
<td>3</td>
</tr>
<tr>
<td>TEAC 921D</td>
<td>Seminar in Literacy Studies: Language, Culture, and Education</td>
<td>1-9</td>
</tr>
</tbody>
</table>

**Transdisciplinary Childhood Obesity Prevention**

To earn the Graduate Certificate in Transdisciplinary Childhood Obesity Prevention:

1. Apply and get admitted toward this certificate objective [here](http://www.unl.edu/gradstudies/prospective/programs/Cert_ChildhoodObesity).
2. Consult an advisor to develop a plan of study.
3. Complete 14 credit hours as described here, with a grade of B- or better in each course. Participants must also complete a PhD or MS. With permission, substitutions of equivalent courses may be accepted.

**Required Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUTR 810</td>
<td>Transdisciplinary Obesity Prevention</td>
<td>3</td>
</tr>
<tr>
<td>NUTR 910</td>
<td>Research Planning and Grant Writing for Childhood Obesity</td>
<td>3</td>
</tr>
<tr>
<td>NUTR 986</td>
<td>Graduate Seminar</td>
<td>1-2</td>
</tr>
<tr>
<td>NUTR 911</td>
<td>Practicum: Experiential Learning Experiences in Childhood Obesity Prevention</td>
<td>1</td>
</tr>
</tbody>
</table>

**Graduate-level statistics course**

**Elective: Choose one**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDPS 800</td>
<td>Foundations of Educational Research</td>
<td>3</td>
</tr>
<tr>
<td>NUTR 805</td>
<td>Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>CYAF 865</td>
<td>Research Design and Methods</td>
<td>3</td>
</tr>
</tbody>
</table>

**World Language Teaching: German**

To earn the Graduate Certificate in World Language Teaching: German:

1. Apply and get admitted toward this certificate objective [here](http://www.unl.edu/gradstudies/prospective/programs/Cert_TeachingGerman).
2. Consult an advisor to develop a plan of study.
3. Complete 15 credit hours as described below.

**Choose any 5 of these:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEAC 922</td>
<td>Seminar in the Learning and Teaching of Foreign Languages</td>
<td>3</td>
</tr>
<tr>
<td>TEAC 922C</td>
<td>The Interpretive Mode: Reading and Listening in the German Language Classroom (formerly 922B)</td>
<td>3</td>
</tr>
<tr>
<td>TEAC 922G</td>
<td>Interpersonal and Presentational Writing in the German Language Classroom</td>
<td>3</td>
</tr>
<tr>
<td>TEAC 922P</td>
<td>Assessment in the German Language Classroom (formerly 922O)</td>
<td>3</td>
</tr>
<tr>
<td>TEAC 922T</td>
<td>Planning in the German Language Classroom (formerly 922T)</td>
<td>3</td>
</tr>
<tr>
<td>TEAC 922X</td>
<td>Technology-Enhanced German Language Instruction (formerly 922W)</td>
<td>3</td>
</tr>
<tr>
<td>TEAC 922Z</td>
<td>Teaching for Intercultural Communicative Competence in the Foreign Language Classroom</td>
<td>3</td>
</tr>
</tbody>
</table>

**World Language Teaching: Spanish**

To earn the Graduate Certificate in World Language Teaching: Spanish:

1. Apply and get admitted toward this certificate objective [here](http://www.unl.edu/gradstudies/prospective/programs/Cert_TeachingSpanish).
2. Consult an advisor to develop a plan of study.
3. Complete 15 credit hours as described below.

**Choose any 5 of these:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEAC 922</td>
<td>Seminar in the Learning and Teaching of Foreign Languages</td>
<td>3</td>
</tr>
<tr>
<td>TEAC 922B</td>
<td>The Interpretive Mode: Reading and Listening in the Spanish Language Classroom</td>
<td>3</td>
</tr>
<tr>
<td>TEAC 922F</td>
<td>Interpersonal and Presentational Writing in the Spanish Language Classroom</td>
<td>3</td>
</tr>
<tr>
<td>TEAC 922O</td>
<td>Assessment in the Spanish Language Classroom</td>
<td>3</td>
</tr>
<tr>
<td>TEAC 922S</td>
<td>Planning in the Spanish Language Classroom</td>
<td>3</td>
</tr>
<tr>
<td>TEAC 922W</td>
<td>Technology-Enhanced Spanish Language Instruction (formerly 922W)</td>
<td>3</td>
</tr>
<tr>
<td>TEAC 922Z</td>
<td>Teaching for Intercultural Communicative Competence in the Foreign Language Classroom</td>
<td>3</td>
</tr>
</tbody>
</table>

**Youth Development**

To earn the Graduate Certificate in Youth Development:

1. Apply and get admitted toward this certificate objective [here](http://www.unl.edu/gradstudies/prospective/programs/Cert_YouthDevelopment).
2. Consult an advisor to develop a plan of study and choose a focus: Youth Development Specialist or Youth Program Management and Evaluation.
3. Complete 13 credit hours as described here: a one-hour foundations course plus 12 hours listed below. Some courses listed here require
admission to a Child, Youth and Family Studies graduate degree program or permission.

May be applied to either focus

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor(s)</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CYAF 878</td>
<td>Youth Policy (Michigan State Univ)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>CYAF 880</td>
<td>Contemporary Youth Issues (Various topics; UNL, Kansas State Univ, Texas Tech Univ, or North Dakota State Univ)</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Required for the Youth Development Specialist focus**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor(s)</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CYAF 861</td>
<td>Foundations of Youth Development (at home univ)</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>CYAF 864</td>
<td>Community Youth Development (Michigan State Univ)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>CYAF 868</td>
<td>Adolescents and Their Families (UNL or Kansas State Univ)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>CYAF 872</td>
<td>Youth Development (UNL or North Dakota State Univ)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>CYAF 875</td>
<td>Youth in Cultural Contexts (Michigan State Univ)</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Required for the Youth Program Management and Evaluation focus**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor(s)</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CYAF 861</td>
<td>Foundations of Youth Development (at home univ)</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>CYAF 873</td>
<td>Program Design, Evaluation and Implementation (UNL)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>CYAF 863</td>
<td>Youth Professionals as Consumers of Research (UNL)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>CYAF 869</td>
<td>Administration and Program Management (UNL or Kansas State Univ)</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Engineering**

**Construction Engineering & Management**

To earn the Graduate Certificate in Construction Engineering & Management:

1. Apply and get admitted toward this certificate objective.
2. Consult an advisor to develop a plan of study.
3. Complete 12 credit hours as described here, with grades of B or higher in all classes.

**Fine and Performing Arts**

**Music Entrepreneurship**

To earn the Graduate Certificate in Music Entrepreneurship:

1. Apply and get admitted toward this certificate objective.
2. Consult an advisor to develop a plan of study.
3. Complete 12 credit hours as described here. These courses are offered each fall and spring term, with the business courses (ENTR) also offered in summer. Although these are not part of the regular Master of Music program, they may be used as electives in some master's or doctoral programs in Music.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 898</td>
<td>Special Topics in Music</td>
<td>3</td>
</tr>
<tr>
<td>ENTR 821</td>
<td>Initiating and Managing Entrepreneurial Growth</td>
<td>3</td>
</tr>
</tbody>
</table>

**Journalism and Mass Communications**

**Public Relations and Social Media**

To earn the Graduate Certificate in Public Relations and Social Media:

1. Apply and get admitted toward this certificate objective (http://www.unl.edu/gradstudies/prospective/programs/Cert_PublicRelations).
2. Consult an advisor to develop a plan of study.
3. Complete 12 credit hours as described here, with grades of B or higher in all classes.

**Required courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADPR 830</td>
<td>Strategic Communications: Advertising Issues and Strategies</td>
<td>3</td>
</tr>
<tr>
<td>ADPR 834</td>
<td>Digital Insight &amp; Analytics</td>
<td>3</td>
</tr>
<tr>
<td>ADPR 850</td>
<td>Public Relations Theory and Strategy</td>
<td>3</td>
</tr>
<tr>
<td>ADPR 866</td>
<td>Social Media Theory and Practice</td>
<td>3</td>
</tr>
</tbody>
</table>