

Directory of Available Teacher Education Pathways that Meet the Requirements of the Career-Readiness and Dual-Credit Education Grant Program

2024-25 Grant Year

Current as of February 26, 2024. Directory may be updated through May 15, 2024, to incorporate additional education pathways identified or created by Nebraska postsecondary education institutions.



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Purpose: This directory identifies education pathways that are less than full degree programs that lead to qualification to teach dual credit courses and career and technical education courses. It is compiled per the requirement of Neb. Rev. Stat. §85-3111 and in accordance with the purpose of the Career-Readiness and Dual-Credit Education Grant Program (CRDC). **The directory does not include degree programs that are eligible for the Attracting Excellence to Teaching Program or the Enhancing Excellence in Education Program;** however, the courses and certificates in this directory may be drawn from such degree programs and may be applicable to degrees and field endorsements should grant recipients pursue them after meeting the purposes of this grant.

Organization: The directory is organized as follows:

1. Graduate Certificate Programs

For teachers with an advanced degree but not 18 graduate credit hours in the discipline or subfield in which they wish to teach dual credit courses, graduate certificate programs that have been designed to meet the 18 graduate credit hour requirement of the Higher Learning Commission (HLC) for teaching dual credit courses or graduate certificates of less than 18 hours that can, with additional coursework, meet the HLC's 18 graduate hour requirement.

2. Teacher Education Pathways Leading to Supplemental Endorsements in CTE Fields

Formal pathways that lead to supplemental endorsements from the Nebraska Department of Education that enable current teachers to teach in new or additional career and technical education fields.

3. Individualized Teacher Education Pathways

Pathways that draw on courses from existing graduate degree programs to meet the HLC's 18 graduate credit hour requirement for teachers with advanced degrees but not 18 graduate credit hours in the discipline or subfield in which they wish to teach dual credit courses. Individualized pathways must be approved by a teacher's employer and by the postsecondary institution providing the coursework.

4. Human Relations Training

Course for currently employed postsecondary instructors/faculty members who wish to take a human relations course to meet the requirements for a postsecondary teaching permit from the Nebraska Department of Education.

5. Certification Examinations for Career Education Teaching Permit

Industry-approved competency examinations that are taken with the intention of meeting one of the options for obtaining a career education teaching permit from the Nebraska Department of Education.

6. Technical Skill Workshops

Workshops that allow current Skilled and Technical Sciences and Agriculture, Food, and Natural Resources CTE teachers to receive UNL graduate credit for up-skilling courses that allow the teachers to expand program offerings and course content options in their school.

Priority areas for Grant Year 2024-25: In consultation with the Department of Education, the Department of Labor, and an advisory group of postsecondary institutions, the Commission has established the following priority pathways for the 2024-25 grant year. While applications will be accepted for any discipline or subfield, pathways leading to qualification to teach dual-credit or career and technical education courses in one of the following areas will receive priority.

- Skilled and Technical Sciences
- Health Science/Health Care
- IT/Computer Science
- Agriculture
- English
- Speech Communication
- Psychology/Behavioral Health
- World languages, especially Spanish
- Math
- Sciences
- Early Childhood Education
- Business

Graduate Certificate Programs

University of Nebraska - Lincoln

Several graduate certificates are available at UNL [to combine with additional courses in areas that support expanded career program offerings.](#)

Personal Leadership Graduate Certificate

Department of Agricultural Leadership, Education and Communication
College of Agricultural Sciences and Natural Resources

UNL's Department of Agricultural Leadership, Education and Communication offers a 12-credit hour **online** graduate certificate in [Personal Leadership](#) for educators and other professionals who wish to expand their knowledge in leadership.

Students of this program gain skills to:

- (1) Apply knowledge of leadership theories and models at the individual, team and organizational levels; and,
- (2) Develop and implement a personal plan for transfer of leadership knowledge, skills and behavior to a supervisory position.

The coursework explores motivation as it applies to leadership in both organization and community aspects. Additionally, students explore how to apply leadership concepts from the program curriculum to a supervisory position.

Rural Economic and Community Vitality Graduate Certificate

Department of Agricultural Economics
College of Agricultural Sciences and Natural Resources

UNL's Department of Agricultural Economics offers a 12 credit hour **online** graduate certificate in [Rural Economic and Community Vitality](#) helping individuals play a proactive role in rural community economic development. The graduate certificate conveys economic and social concepts relevant to understanding rural communities, the public decision-making process and the value of a multicultural and diverse citizenship. The core curriculum develops knowledge in community and regional economic analysis, dynamics of effective leadership in groups and teams, and a practicum or capstone project in community development. Areas of interest supplement the core courses and include community law, financing, workforce or engagement, and delving into rural government law and government finance fundamentals, community development and engagement, community action strategies, and workforce development.

Science for Educators Specialization

College of Agricultural Sciences and Natural Resources

The [Science for Educators Specialization](#) is a 9-credit hour program that works synergistically with the [Masters of Applied Science \(MAS\) program](#) and is designed to enhance educators science content knowledge, demonstrate pedagogy that drives learning experiences and support educators to create applicable, standards-based curriculum.

The Science for Educators Specialization, MAS program emphasizes science content inquiry, integration and application by:

- Acquiring new and enhanced knowledge of science concepts and examining science in the context of the world around us
- Integrating standards-based science content with age-appropriate pedagogy and establishing connections between the natural and designed world, linking science and technology
- Applying science content to real-world challenges, developing relevant, standards-based curriculum materials and inspiring students with science in action

Environmental Education Specialization

College of Agricultural Sciences and Natural Resources

The [Environmental Education \(EE\) specialization](#) is a non-thesis program available for University of Nebraska Masters of Applied Science (MAS) students. The EE specialization provides post-baccalaureate training related to pedagogical methods in nonformal and formal education settings related to environmental education and conservation education. The advanced training is designed to provide a distinctive edge in the workforce and advancing careers.

Objectives

- Design and develop environmental education and public information programs.
- Design and develop campaigns to encourage conservation behaviors.

- Evaluate environmental education programs, public information programs, and behavior change campaigns
- Demonstrate excellent teaching and effective program delivery skills.
- Manage and lead environmental educators.

Graduate Certificate in Entomology

Department of Entomology

College of Agricultural Sciences and Natural Resources

The Department of Entomology at the University of Nebraska-Lincoln (UNL) is offers an **online** graduate certificate in Entomology. This new certificate is available to online and on-campus students and may be earned by successfully taking 15 credits.

The [Entomology graduate certificate](#) is designed to familiarize learners with entomology and the importance of insects in the ecosystem and for human resilience. Learners will be able to apply the program's coursework directly to their professions. The certificate may also interest others in the post-baccalaureate community, including teachers, extension educators, or conservation biologists. Learners gain a well-rounded understanding of Entomology as a whole and are able to focus coursework in areas such as:

- Forensic and medical entomology
- Natural history
- Insects in education
- Insect ecology, physiology and biochemistry

Graduate Certificate in Agronomy

Department of Agronomy and Horticulture

College of Agricultural Sciences and Natural Resources

The [Agronomy Graduate Certificate](#) is a 12-credit hour program focused on creating the opportunity for students to gain graduate level knowledge across agronomic topics. The program emphasizes flexibility by providing the ability to complete the certificate online or on-campus, and by allowing students to select from a broad list of existing courses to create the type of Agronomy Graduate Certificate which best supports their education, professional or career goals.

This certificate is for individuals interested in gaining agronomic credentials for their full-time career and those who may be interested in pursuing a MS degree in the future. The certificate may also interest others in the post-baccalaureate community, including teachers, extension educators, or conservation biologists.

PR & Social Media Graduate Certificate

College of Journalism and Mass Communications

UNL's College of Journalism and Mass Communications offers a 12-credit hour **online** graduate certificate in [Public Relations and Social Media](#), building and developing skills on new communications platforms.

Geographic Information Science Graduate Certificate

School of Global Integrative Studies
College of Arts and Sciences

UNL's School of Global Integrative Studies offers a 15-credit hour graduate certificate in Geographic Information Science, addressing the needs of students, educators and professional communities who require GIS education, training, and technology transfer. The program focuses on the basic knowledge and theory of GIS, hands-on training and exposure to the technology, and problem-solving skills addressing the needs of the workforce. GIS is a tool used to understand the demographics, census implications, and other geospatial aspects so important in government and professional jobs training and exposure to technology (GIS technical training), provides students with problem-solving skills, and addresses the needs of professionals.

Business Analytics Graduate Certificate

Department of Supply Chain Management and Analytics
College of Business

UNL's Department of Supply Chain Management and Analytics offers a 12-credit hour **online** graduate certificate in [Business Analytics](#) designed to build on any background. The skills learned are applicable to virtually any industry, the course credits are transferable, and can roll into a master's program. Focusing on the use of analytics techniques to solve real business problems, students gain exposure to cutting-edge software and techniques used in industry to analyze data and make decisions, including statistics, data mining and simulation.

Marketing Analytics Graduate Certificate

Department of Marketing
College of Business

UNL's Department of Marketing offers a 12-credit hour **online** graduate certificate in [Marketing Analytics](#) designed for sales and marketing professionals who would like to use marketing-specific data-analytic tools in their decision-making. The Marketing Analytics graduate certificate provides students with the necessary skills and tools to manage effective sales and marketing programs in numerous industries, including business-to-business, consumer packaged goods, entertainment, pharmaceutical, retail, services, and sports marketing. The courses for this 12-credit-hour certificate program help prospective students understand the cutting-edge analytic tools and techniques useful for areas such as sales forecasting, key-account management, predictive modeling, consumer segmentation, micro-targeting, consumer choice modeling, and data mining.

Strategic Innovation and Entrepreneurship Graduate Certificate

College of Business

UNL's College of Business offers a 12-credit hour **online** graduate certificate in [Strategic Innovation and Entrepreneurship](#) providing the foundation and knowledge applying to a wide range of careers. In this

increasingly competitive environment, understanding how to identify and explore entrepreneurial opportunities, manage rapid growth and change, develop business plans, and business strategies will complement a teacher's core area of career and technical content.

University of Nebraska at Kearney

The following graduate certificates are available at UNK to combine with additional courses in areas that support expanded career program offerings.

Public History Graduate Certificate

Department of History
College of Arts and Sciences

UNK's Department of History offers a 15-credit hour **online** graduate certificate in Public History for educators and other professionals who wish to expand their skills in creating and disseminating history with and for public audiences, while engaging students and community members as history makers through applied projects.

Students of this program gain skills to:

1. Interpret history for public audiences from multiple perspectives and through a variety of formats, including archives, museums, historic sites, oral history, digital history, and other mediums, and critically examine these forms of public history as distinct forms of history-making; and,
2. Envision, develop, and execute public history projects (such as exhibits, oral history projects, National Register nominations, etc.) both independently and in collaboration with community stakeholders, such as community organizations, museums and historical societies, and other interested parties.

The coursework explores the theory and practices that define public history as a distinct discipline within the broader history profession. Through readings, discussions, and applied projects, students explore new and innovative ways to create history in their own communities, connecting history with the needs and interests of audiences today.

Spanish Graduate Certificate

Department of Modern Languages
College of Arts and Sciences

UNK's Department of Modern Languages offers an 18-credit hour **online** graduate certificate in Spanish for educators and other professionals who wish to expand their knowledge in Spanish language pedagogy, linguistics, and cultural studies.

Students of this program gain skills to:

1. Qualify to teach dual-credit courses in Spanish; HLC guidelines require dual-credit teachers who hold a master's degree or higher in a discipline or subfield other than that in which they are teaching to have completed a reasonable amount of coursework (typically 18 hours) in the discipline or subfield in which they teach; and,
2. Qualify to teach AP coursework in Spanish; many schools and districts require AP teachers to hold a master's degree or equivalent coursework in the discipline or subfield.

The coursework explores a variety of topics related to the Spanish language, the cultural production of the Spanish-speaking world, and the professional development of Spanish teachers.

Communication Instructional Development Graduate Certificate

Department of Communication
College of Arts and Sciences

UNK's Department of Communication offers an 18-credit hour **online** graduate certificate in Communication Instructional Development for educators and other professionals who are interested in pursuing careers in education and/or training related to communication. Students of this program gain skills to:

1. Develop communication skills, and knowledge to effectively lead communication-based courses and clubs; and,
2. Help prepare professionals to coach and evaluate a variety of communication-based activities in secondary education, including debate team, forensics, one act, and speech team.

The coursework explores communication as it applies to professional and personal growth in both organization and community aspects. Additionally, students explore how to apply communication concepts from the program curriculum to a supervisory position.

University of Nebraska Medical Center

Biostatistics Certificate:

UNMC has a certificate of Applied Biostatistics that could be used to meet requirements to teach dual credit statistics. The certificate is 12 credits, but other courses could be added to complete the 18 credits. These are also offered online.

The first four courses would earn the certificate. Any combination could be used to fulfill 18 credits.

BIOS 806 Biostatistics I 3 CR
BIOS 835 Design of Medical Health Studies 3 CR
BIOS 808 Biostatistics II 3 CR
BIOS 810 Introduction to SAS Programming 3 CR
BIOS 815 Biostatistical Computing 3 CR
BIOS 823 Categorical Data Analysis 3 CR
BIOS 824 Survival Data Analysis 3 CR
BIOS 825 Correlated Data Analysis 3 CR
BIOS 829 Introduction to Biostatistical Machine Learning 3 CR

University of Nebraska at Omaha

Computer Science Education Graduate Certificate

Department of Computer Science & Department of Teacher Education
College of Information Science & Technology & College of Education, Health, and Human Sciences

The 18-credit hour graduate certificate in [Computer Science Education](#) is intended for educators seeking to extend their knowledge and skills in the teaching computational thinking, computer science, and information technology. In completing program coursework, certified Nebraska teachers will also meet requirements for the IT supplemental endorsement. Teachers from other states should consult with their corresponding state officials to consider local credentialing applicability. Prior background in computer science is not required. This certificate can be earned completely **online**.

Cybersecurity Graduate Certificate

School of Interdisciplinary Informatics
College of Information Science & Technology

Cybersecurity is the practice of managing information related risks by ensuring confidentiality, integrity, authentication, availability, and non-repudiation of data. In addition to the national interest in cybersecurity, local businesses are increasingly reliant on secure computer infrastructures for their daily operations. The 12-credit hour [Cybersecurity graduate certificate](#) is a logical step to enhance the skill set of local and at-a-distance cybersecurity professionals. Additionally, the certificate program can serve as a feeder into the MS in cybersecurity degree should the students in the certificate choose to continue their graduate education. This certificate can be earned completely **online**.

Data Analytics Graduate Certificate

Department of Information Systems and Quantitative Analytics
College of Information Science & Technology

Data analytics uses a variety of techniques to examine large amounts of data to discover patterns that can lead to business insights. Data analytics has broad applicability in customer behavior analysis, fraud detection, scientific inquiry, process improvement, financial analysis, trend analysis, forecasting, and decision-making. Techniques may include statistical methods, data mining, modeling and simulation, and data visualization. The 15-18 credit hour [Data Analytics graduate certificate](#) is designed to equip students to apply the theory and practice of data analytics to solving problems in a variety of economic, social, and scientific domains. This is a potential pathway for teachers interested in dual enrollment courses like CIST 2500 or potentially future data science courses at the high school level which have been of interest at NDE.

Literature and Culture Graduate Certificate (English)

Department of English
College of Arts & Sciences

The 18-credit hour [graduate certificate in Literature and Culture](#) offers an education in the intersection between literature written in English—either originally or in translation—with human culture broadly considered. The certificate will give high school teachers the credential to teach preparatory coursework worthy of college credit at UNO and other universities. And it is also designed as a continuing education option for anyone wishing to study literature at a post-baccalaureate level for personal enrichment. The certificate can be earned as part of the larger MA in English at UNO, and it can also be applied toward completion of that larger program retroactively.

French Graduate Certificate

Department of Foreign Languages
College of Arts & Sciences

The 18-credit hour [graduate certificate in French](#) provides students with intensive language proficiency training in the target language through six courses (18 credits) in French/Francophone cultures and literatures. Students interested in language teaching can also meet course requirements with up to six credits in language teaching pedagogy courses. The graduate certificate in French is designed for individuals wishing to improve their overall proficiency in French, as well as those interested in pursuing additional graduate credits so they can be accredited to teach courses for the dual-enrollment programs at UNO or at other metropolitan and regional universities.

Geographic Information Science Graduate Certificate

Department of Geography
College of Arts & Sciences

The Department of Geography offers an 18-credit hour [graduate certificate in Geographic Information Science](#). The mission of the geography graduate program is to provide quality graduate education in physical geography, human geography and spatial analysis (GIS, cartography and remote sensing). The department offers a rich learning environment for students with close interaction between faculty and students, technology-enhanced instruction, and opportunities for fieldwork. Courses enhance student's perception and appreciation of the earth's human and physical environments as well as geography's essential role in both understanding and navigating our increasingly interconnected world. The department, an active participant in its community, has ties throughout the city and state, leading to a wide variety of internship opportunities. The department is committed to providing students with the essential knowledge and skills needed to succeed, be it in professional employment or further graduate education.

Government Graduate Certificate (Political Science)

Department of Political Science
College of Arts & Sciences

UNO's Department of Political Science offers an 18-credit hour [graduate certificate in Government](#) for educators and other professionals who already have an advanced degree in another field and wish to expand their knowledge in political science. This certificate is designed to help educators meet the new requirements set by the Higher Learning Commission to teach government-related courses in institutions of higher education or dual enrollment/concurrent enrollment courses in high schools. This certificate can be earned as a stand-alone program, or in conjunction with the MS in political science. This certificate can be earned completely **online**.

History Graduate Certificate

Department of History
College of Arts & Sciences

UNO's Department of History offers an 18 credit hour [graduate certificate in History](#) for educators and other professionals who already have an advanced degree in another field and wish to expand their knowledge of History. This certificate is designed to help educators meet the new requirements set by the Higher Learning Commission to teach history-related courses in institutions of higher education or dual enrollment/concurrent enrollment courses in high schools. This certificate can be earned completely **online**.

Secondary Mathematics Specialist Graduate Certificate

Department of Mathematics
College of Arts & Sciences

The 18-credit hour [Secondary Mathematics Specialist graduate certificate](#) is ideal for: Current high school teachers who are planning on teaching advanced secondary mathematics such as Dual-Enrollment college algebra at their high school and already have a masters degree in a STEM or education field or would like to get one. Any student interested in teaching freshman/sophomore level mathematics courses at local universities.)

Sociology Graduate Certificate

Department of Sociology and Anthropology
College of Arts & Sciences

The 18-credit hour [graduate certificate in Sociology](#) is a flexible 18 credit hour program. It is ideal for educators and other degree-holding professionals who want to enhance their sociological knowledge and gain insight into our present-day world. It is designed to meet the needs of: High school educators who seek credentials to teach dual enrollment in sociology and are required to have 18 graduate credit hours in the discipline to be eligible; Part-time and full-time UNO graduate students in related fields; Professionals, especially those employed in social services and non-profits who engage in research/evaluation, who strive to complement and expand their knowledge of social inequality and its implications. This certificate can be earned completely **online**.

Spanish Graduate Certificate

Department of Foreign Languages
College of Arts & Sciences

The 18-credit hour [graduate certificate in Spanish](#) provides students with the opportunity to earn a certificate degree after successful completion of 18 credit hours of intensive language proficiency training in Spanish. The program includes courses in Hispanic cultures, literature, linguistics, and, for those students interested in language teaching, language teaching pedagogy. The graduate certificate in Spanish presents a rigorous language program that seeks to serve these student populations: (a) High school faculty interested in teaching dual enrollment classes and who are required to have 18 graduate credit hours in their discipline to be eligible. (b) Bilingual instructors who support dual language and world language programs. (c) Individuals in various fields (e.g., law enforcement, social work, psychological services, healthcare) who work with Spanish-speaking individuals. This certificate can be earned completely **online**.

Communication Graduate Certificate

School of Communication
College of Communication, Fine Arts & Media

The 18-credit hour [Communication graduate certificate](#) program provides potential students who are not interested in a complete MA program the opportunity to expand their knowledge of the discipline or customize their learning toward a specific area of study. This can be helpful for career promotion, professional opportunities, teaching in-discipline at the community college/dual-enrollment level, personal exploration, etc. This certificate can be earned completely **online**.

Kodaly Graduate Certificate (Music)

School of Music
College of Communication, Fine Arts & Media

The 15-16 credit hour [Kodaly graduate certificate](#) program may be suitable for some to provide music educators with an opportunity to enhance their pedagogical skills with a program that promotes music literacy through experiential learning in singing, movement, and reading activities. The Kodály program—named for the methods developed by Zoltán Kodály, a Hungarian composer and ethnomusicologist—includes courses that provide classroom applications of the method, folksong literature research, conducting experiences, and instruction in solfege.

Economics Education Graduate Certificate

Department of Economics
College of Business Administration

The 18-credit hour [graduate certificate in Economic Education](#) is to assist high school instructors who teach economics to obtain the 18 graduate credit hours needed to teach economics as a dual enrollment course. The Higher Learning Commission (HLC) requires that teachers must have at least 18 graduate credit hours in a given subject to teach classes that can be considered dual-enrollment. The graduate certificate is designed to expand high school teachers' economics knowledge both in theory and practice so they can deliver high quality classes at the college-level.

Teacher Education Pathways Leading to Supplemental Endorsements in CTE Fields

Health Sciences Education Supplemental Endorsement

Wayne State College: Total Credits 15-16

Description: Persons with this endorsement may teach Health Sciences courses at the 6-12 level. This endorsement requires an applicant hold a subject or field endorsement in Science, Biology, Health and

Physical Education, Physical Education, Health Education, Agriculture Education or Family and Consumer Science.

Course Code	Title	Credit Hours
CED 423	Coordinating Techniques	3
FCS 416	FCS Practicum	3
EDU 409	Content Area Methods and Assessment	3
	Select one of the following:	3-4
PED 105	Anatomy and Physiology	3
BIO 220	Human Anatomy	4
BIO 340	Human Physiology	4
	Select one of the following:	
FCS 340	Community Nutrition	3
PED 130	Introduction to Exercise and Allied Health Professions	3
PED 305	Exercise Physiology	3
PED 351	Biomechanics	3
PGH 200	Public and Global Health	3
NAT 421	Scientific Communications	3

Chadron State College: Total Credits 29-30

Description: This endorsement requires an applicant to hold, or earn concurrently, a subject or field endorsement in: Science, Biology, Health and Physical Education, Physical Education, Health Education, Agriculture, or Family and Consumer Sciences. **Note: the CRDC Grant will pay for up to 18 credit hours.**

Course Code	Title	Credit Hours
BIOL 121 and 121L	Human Biology and Human Biology Lab	3
CTE 434	Principles and Philosophy of Career and Technical Education	3
CTE 452	Program Development, Implementation and Assessment	3
Or CTE 438	Coordination Techniques/Work-Based Learning	3
FCS 149 and 149L	Basic Health Care and Basic Health Care Laboratory	3
Or HPER 332	Safety and First Aid	2
FCS 225	Adolescent Development	3
FCS 234	Introduction to Health and Human Services	3
FCS 390	Internship in FCS	3
Or CTE 390	Internship in CTE	3
FCS 422	Professional Career Development	3
FCS 457	Nutrition for Community Wellness	3
HPER 232	Applied Exercise Physiology	3
OR HPER 336	Fitness Evaluation and Exercise Prescription	3

University of Nebraska-Lincoln: Total Credit Hours: 10-17

Description: This endorsement requires an applicant to hold, or earn concurrently, a subject or field endorsement in Science, Biology, Health and Physical Education, Physical Education, Health Education, Agriculture Education, or Family and Consumer Sciences Occupational.

Course Code	Title	Credit Hours
BIOS 213	Human Physiology	3
Or BIOS 214	Human Anatomy	5
CLAS 116	Medical Greek and Latin	2
Or DANC 338	Dance Kinesiology and Injury Prevention	3
Or NUTR 484	Physiology of Exercise	3
Or NUTR 356	Nutrition Education in the Community	3
CYAF 451	Learning and Teaching Principles and Practice in Family and Consumer Sciences	3
Or CYAF 452	Curriculum Principles and Practices in Family and Consumer Sciences	4
CYAF 496	Advanced Independent Study	1-6
TEAC 425	Work-Based Learning/Coordinating Techniques	1-3

Work-Based Learning Supplemental Endorsement

Total Credits: 3

Description: Persons with this endorsement may coordinate, teach, and supervise programs of instruction that develop career and life skills. Course Requirements are met by completing the following (3-hour course).

Bellevue University:

Course Code	Title	Credit Hours
EDUC 305	Work-Based Learning and Coordination Techniques Course	3

Chadron State College:

Course Code	Title	Credit Hours
CTE 438/538	Coordination Techniques/Work-Based Learning Course	3

Hastings College:

Course Code	Title	Credit Hours
ED 425/625	Coordination of Work-Based Learning	3

University of Nebraska at Kearney

Course Code	Title	Credit Hours
BSED 431/831P	Coordinating Techniques	3

University of Nebraska-Lincoln

Course Code	Title	Credit Hours
TEAC 425/825	Work-Based Learning/Coordinating Techniques	3

University of Nebraska at Omaha

Course Code	Title	Credit Hours
TED 4850/TED 8856	Work-Based Learning	3

Wayne State College

Course Code	Title	Credit Hours
CED 423/523P	Coordinating Techniques	3

Information Technology Supplemental Endorsement (K-12)

Credit Hours: 18 Credit Hours

Bellevue University (PK-12)

Description: Teachers in the STEM fields are sought after all grade levels. If you have an interest in computer science and teaching, add the supplemental information technology endorsement for grades PK-12 to your teaching credentials. To complete a supplemental endorsement in Information Technology you must complete one other field or subject endorsement.

Course Code	Title	Credit Hours
CIS 103	Digital Media Storytelling	3
CIS 122	Emerging Technologies	3
CIS 212	Communicating in a Digital World	3
CIS 245	Introduction to Programming	3
CIS 209	Foundations of Information Systems	3
CIS 309	Data and Information Management	3

University of Nebraska at Kearney Total Credit Hours: 18-19

Offered by Department of Cyber Systems

Description: Description: Qualify for IT teaching and support. This online endorsement focuses on instructional methodologies, programming techniques and system administration skills to prepare you for information technology support, teaching or training positions in PK-12 schools and districts.

Students must complete one Teaching Subject Endorsement or one Field Endorsement in addition to this Supplemental Endorsement.

This program does not lead to initial teacher certification. For those who already have teacher certification, completion of this program leads to a supplemental endorsement in Information Technology, qualifying you to teach courses in programming, web design, instructional design, software management, multimedia, systems integration services, and many other topics within information technology. Students pursuing this endorsement in states other than Nebraska must check with their State Department of Education for certification requirements.

All courses from this endorsement program apply toward the online M.S.Ed. in Instructional Technology: Information Technology program. **Note: the CRDC Grant will pay for up to 18 credit hours.**

Course Code	Title	Credit Hours
CYBR 100	Programming Logic, Design and Practice	3-4
or CYBR 101	Computer Science I: Python for Analytics	
or CYBR 102	Computer Science I: C for Security	
or CYBR 103	Computer Science I: Java for Software Development	
CYBR 159	Data, Ethics, and Society	3
CYBR 235	Fundamentals of Networking & Systems	3
CYBR 434	Information Technology Teaching Methods	3
CYBR 478	Cybersecurity for Managers & Leaders	3
Or CYBR 490	Information Networking Law and Public Policy	3
BSED 402	Career Education Multimedia Applications	3

Wayne State College (K-12) Total Credit Hours: 15

Description: Students with this endorsement may teach information technology courses in K-12.

Course Code	Title	Credit Hours
CSC 542	Programming Design, and Documentation	3
CSC 548	Web and Multimedia Content Design and Administration	3
CIS 554	Technology Platforms: Hardware and Operating Systems	3

CIS 557	Networking and Technology Management	3
CIS 575	Topics in CIS: Emerging Information Technologies	3

Midland University Total Credits: 16

Information Technology, PK-12 Supplemental Endorsement

Course Code	Title	Credit Hours
BIT 101	Introduction to Business Intelligence	3
BIT 160	Object Oriented Programming	3
BIT 201	Help Desk	3
BIT 350	Operating Systems	3
BIT 499	Business Intelligence Technology Internship	3
EDU 499	Practicum in Teacher Education	1

University of Nebraska – Lincoln Total Credits 15

Information Technology --Emphasizing Computer Science Education (K-12)

Course Code	Title	Credit Hours
TEAC 890	Workshop in Computer Science Methods in Education	3
TEAC 882	Instructional Applications of Technology	3
CSCE 805	Computer Science for Teachers 1	3
TEAC 882B Or CSCE 806	Instructional Applications of Technology: Database and Web Applications Computer Science for Teachers II	3
TEAC 859 OR	Designing Learning Experiences	3
TEAC 860	Production of Instructional Materials	3

University of Nebraska at Omaha Total Credits 18

CS Education Graduate Certificate and IT Supplemental Endorsement

Description: If you are interested in earning your IT supplemental endorsement but aren't ready to commit to a full MS degree program, the Graduate Certificate in CS Education is built just for you!

A graduate certificate is a great way to get started with graduate courses in teaching computer science. The best part is that if you change your mind down the road, all of the credits you earn can be applied to the MS in Computer Science Education!

Course Code	Title	Credit Hours
CSTE 8020 OR CSTE 8030	Exploring Computer Science for Teachers OR Computer Science Principles for Teachers	3
CSTE 8040	Object Oriented Programming for Teachers	3
CSCI/CYBR 8366	Foundations of Information Assurance	3
CHOOSE ONE: CSCI 8256 CSCI 8266 CSCI 8836	CHOOSE ONE: Human Computer Interaction User Experience Design Software Engineering	3
TED 8006	Special Methods in the Content Area (IT/CS Section)	3
CSCI 8010	Foundations of Computer Science	3

Early Childhood Education Endorsement (K-12)

Doane University Total Credits 18
Early Childhood Endorsement (Online)

Doane University’s College of Education provides a 100% online asynchronous [Early Childhood Endorsement](#) with the exception of a 3 credit hour Practicum for Early Childhood. Applicants must have an elementary certification to apply for this endorsement. The endorsement requires a total of 18 graduate hours – 15 credit hours of required courses and 3 credit hours of a selected topic related to math, reading, writing and/or ELL.

Individualized Teacher Education Pathway

With the written approval of an applicant’s current or anticipated employer (a high school or a postsecondary institution) and the postsecondary institution offering the course work, an applicant may submit an individualized plan for a coordinated series of no more than 18 semester credit hours of graduate courses or undergraduate courses that will lead to recognition by the applicant’s current or anticipated employer to teach dual enrollment courses or career and technical education courses. Teachers interested in this approach are responsible for meeting all application and program admission requirements of their postsecondary institution prior to submitting a CRDC Grant application. Individualized plans should relate to identified state workforce needs.

Chadron State College

The following areas have sufficient graduate credit hours to allow a teacher to meet the HLC's 18 graduate credit requirement on an individualized basis: Math, Science, History, Social Sciences, Business, Career and Technical Education, Family and Consumer Sciences, and Physical Education.

Wayne State College

The following MSE Curriculum and Instruction concentration areas have sufficient graduate credit hours to allow a teacher to meet the HLC's 18 graduate credit requirement: Business and Information Technology, Skilled and Technical Sciences, Family and Consumer Sciences, Social Sciences, Math, Music, English

University of Nebraska at Kearney

Potential teachers seeking to fulfill the HLC 18 Credit hour graduate requirement would be able to select courses that meet their individual needs from the list of master's program subject areas below.

Art Education, Master of Arts in Education
Athletic Training, Master of Athletic Training
Biology, Master of Science
Business Administration, Master of Business Administration
Curriculum and Instruction, Master of Arts in Education
English, Master of Arts
Exercise Science, Master of Arts in Education
Health Sciences, Master of Science
History, Master of Arts
Kinesiology and Sport Sciences, Master of Arts in Education
Learning, Design & Technology, Master of Science in Education
Music Education, Master of Arts in Education
Physical Education, Master of Arts in Education
Public Communication, Master of Arts
Public History Graduate Certificate
Public History, Master of Arts
Reading PK-12, Master of Arts in Education
Spanish Education, Master of Arts in Education
Spanish Graduate Certificate
Special Education, Master of Arts in Education
STEM Education, Master of Science in Education

University of Nebraska - Lincoln

UNL offers graduate courses that can be assembled into a non-credential pathway to meet the HLC requirements for 18 graduate credit hours in a content area.

University of Nebraska at Omaha

UNO offers graduate courses that can be assembled into a non-credential pathway to meet the HLC requirements for 18 graduate credit hours in [diverse content areas](#) that may be relevant for high school teachers.

University of Nebraska Medical Center

Physiology: UNMC offers 20 credits of Physiology coursework that could be used to meet the 18 graduate credit requirement. The courses are offered 100% online. This is not a formal certificate program (course subset of MS), but could be completed as non-degree seeking student. (<https://catalog.unmc.edu/graduate-studies/programs-requirements/msdegrees/mep/>) **Note: the CRDC Grant will pay for up to 18 credit hours.**

MEP 803 Cell Physiology & Signaling 3 CR

MEP 806 Medical Physiology 7 CR

MEP 807 Medical Pharmacology for the Physiologist 3 CR

MEP 901 Advanced Topics in Physiology 2 CR

MEP 916 Molecular Mechanisms of Cardiovascular Pathophysiology 3 CR

GCBA 905 Physiology and Pathophysiology of the Musculoskeletal System 1 – 2 CR

Human Relations Training

Current postsecondary instructors/faculty members who wish to take a human relations course to meet the requirements for a postsecondary teaching permit from the Nebraska Department of Education and whose institutions do not provide the course at no cost to employees may select a human relations course approved by NDE at <https://www.education.ne.gov/tcert/substitute-teacher/human-relations-training/>

Certification Examinations for Career Education Certificate

Individuals pursuing training and/or testing necessary to pass an industry-approved competency examination with the intention of applying for a career education teaching permit from the Nebraska Department of Education must provide a written statement from their sponsoring or employing high school or postsecondary institution supporting their request for a grant for the cost of training and/or testing. To the extent possible, the application should demonstrate that passing the industry-approved competency examination is sufficient for recognition by the Department as meeting the requirements for a career education teaching permit.

Technical Skill Workshops

For Skilled and Technical Sciences and Agriculture, Food, and Natural Resources CTE teachers who are already certified either traditionally or non-traditionally, a CRDC grant may be used to pay for UNL graduate tuition for up-skilling courses that allow the teachers to expand program offerings and course content options in their school. Applications will need to specify the expanded programs and course offerings that will be offered as a result of the training, and the grant cannot supplant funding the school district would have provided to the teacher for the graduate credit.

This guidance document is advisory in nature but is binding on an agency until amended by such agency. A guidance document does not include internal procedural documents that only affect the internal operations of the agency and does not impose additional requirements or penalties on regulated parties or include confidential information or rules and regulations made in accordance with the Administrative Procedure Act. If you believe that this guidance document imposes additional requirements or penalties on regulated parties, you may request a review of the document.