NEBRASKA CAREER EDUCATION

Programs of Study

2016-2017

CAREER EDUCATION STANDARDS WEBSITE

http://cestandards.education.ne.gov

Nebraska career education standards have been revised to better prepare students for their careers and to help students better meet the needs of employers. The Nebraska Department of Education in cooperation with business and industry as well as Nebraska postsecondary institutions revised the course standards for Career Technical Education (CTE) courses offered in the state's public schools.

The CTE course standards were also aligned with the Nebraska's academic standards (reading, writing, mathematics and science) and the Nebraska Career Readiness Standards. The new career education course standards are available at **http://cestandards.education.ne.gov**.

A recent update to the **Career Education Standards website** reflects the sequence of career and technical education courses that form the State-Approved Programs of Study. Programs of Study for previous years have been archived by school year.

The model standards will help school districts organize curriculum into sequences for courses in each of the following career fields:

- Agriculture, Food and Natural Resources
- Business, Marketing and Management
- Communication and Information Systems
- Health Sciences
- Human Sciences and Education
- Skilled and Technical Sciences

The revised standards also were aligned to courses offered in the state's two- and four-year colleges to create a more seamless education experience for students. Students begin with high school introductory courses that teach broad concepts and skills, progressing to college courses that offer more specific information and develop higher skill levels. Some Nebraska students will have an opportunity to earn college credits while in high school.

Career education courses provide an opportunity for students to gain the knowledge and skills they need for employment and entrepreneurship. The standards define what students should know and be able to do to enter college or their chosen career.

NEBRASKA CAREER EDUCATION
R • E • S • O • U • R • C • E • S

Teaching and Learning Team
www.education.ne.gov/TL/index.html

NEW

Career Readiness Modules
nelearn.myelearning.org

Developing a Local Advisory Committee
www.education.ne.gov/NCE/documents/Advisorybrochure.pdf

H3 Website
(High Wage, High Demand, High Skill)
h3.ne.gov

Middle School Curriculum for Careers: Engage!
www.education.ne.gov/CARED/Engage.html

Nebraska Career Connections
www.nebraskacareerconnections.org

Nebraska Career Education
www.education.ne.gov/nce

Nebraska Career Tours
necareertours.com

Nebraska Career Education Model
www.education.ne.gov/nce/CareerClustersResources.html

Nebraska Career Education Programs of Study
www.education.ne.gov/nce/ProgramsofStudy.html

Nebraska Career Education Standards Website
cestandards.education.ne.gov

Nebraska Career Technical Student Organizations (CTSOs)
www.education.ne.gov/nce/CSOs.html

Nebraska Department of Economic Development
www.neded.org

Nebraska Department of Education Content Area Standards
www.education.ne.gov/AcademicStandards/index.html

Nebraska Department of Labor
dol.nebraska.gov

Nebraska Entrepreneurship Education
www.education.ne.gov/entreped

Nebraska School Counseling
www.education.ne.gov/CARED/index.html

Nebraska Standards for Career Ready Practice
www.education.ne.gov/nce/Standards.html

Nebraska Work-Based Learning
www.education.ne.gov/wbl

Partnerships for Innovation
partnershipsforinnovation.org

Professional Development Modules
nelearn.myelearning.org

reVISION
www.education.ne.gov/nce/revision.html

State of the Schools Report
reportcard.education.ne.gov

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NEBRASKA
DEPARTMENT OF EDUCATION

2016-2017 Nebraska Career Education Programs of Study

Agriculture, Food, and Natural Resources Career Field

Agriculture, Food, and Natural Resources Cluster

Cluster Level Program of Study (POS)

Sequence of CTE Courses	Introduction Course	Intermediate Course	Capstone Course
Agriculture, Food, and Natural Resources: Life Science & Business	011000 Intro to Agriculture, Food and Natural Resources -OR- 018060 CASE Introduction to AFNR	011004 Animal Biology -AND- 011007 Plant Science/Horticulture -AND- 011009 Agribusiness	
CASE: Curriculum for Ag Science Ed Certified	018060 CASE Introduction to AFNR	018061 CASE Plant Science -OR- 018062 CASE Animal Science	018063 CASE Animal And Plant Biotechnology
Agriculture, Food, and Natural Resources: Life Science & Food	011000 Intro to Agriculture, Food and Natural Resources -OR- 018060 CASE Introduction to AFNR	011004 Animal Biology -AND- 011007 Plant Science/Horticulture -AND- 014000 Food Science	
Agriculture, Food, and Natural Resources: Life Science & Natural Resources	011000 Intro to Agriculture, Food and Natural Resources -OR- 018060 CASE Introduction to AFNR	011004 Animal Biology -AND- 011007 Plant Science/Horticulture -AND- 013000 Natural Resources	
Agriculture, Food, and Natural Resources: Life Science & Environment	011000 Intro to Agriculture, Food and Natural Resources -OR- 018060 CASE Introduction to AFNR	011004 Animal Biology -AND- 011007 Plant Science/Horticulture -AND- 018049 Environmental Science	

Agriculture, Food, and Natural Resources: Life Science & Power	011000 Intro to Agriculture, Food and Natural Resources -OR- 018060 CASE Introduction to AFNR	011004 Animal Biology -AND- 011007 Plant Science/Horticulture -AND- 016000 Power, Structure, and Technical Systems Fundamentals	
Agriculture, Food, and Natural Resources: Life Science & Metals	011000 Intro to Agriculture, Food and Natural Resources -OR- 018060 CASE Introduction to AFNR	011004 Animal Biology -AND- 011007 Plant Science/Horticulture -AND- 016004 Welding (AG)	
Agriculture, Food, and Natural Resources: Life Science & Sales	011000 Intro to Agriculture, Food and Natural Resources -OR- 018060 CASE Introduction to AFNR	011004 Animal Biology -AND- 011007 Plant Science/Horticulture	011011 Agricultural Sales and Entrepreneurship

Pathway Level Program of Study (POS)

Sequence of CTE Courses	Introduction Course	Intermediate Course	Capstone Course
Agribusiness Systems: Economics and Management	011000 Intro to Agriculture, Food and Natural Resources -OR- 018060 CASE Introduction to AFNR	011009 Agribusiness	011010 Economics & Agribusiness Management
Agribusiness Systems: Agricultural Sales & Entrepreneurship	011000 Intro to Agriculture, Food and Natural Resources -OR- 018060 CASE Introduction to AFNR	011009 Agribusiness	011011 Agricultural Sales and Entrepreneurship
Agribusiness Systems: Leadership	011000 Intro to Agriculture, Food and Natural Resources -OR- 018060 CASE Introduction to AFNR	011009 Agribusiness	017000 Leadership and Ethics in Agriculture
Animal Systems: Companion Animal	011000 Intro to Agriculture, Food and Natural Resources -OR- 018060 CASE Introduction to AFNR	011004 Animal Biology -OR- 018062 CASE Animal Science -OR- 011003 Agricultural Biology	011006 Companion Animals

Animal Systems: Large Animal	011000 Intro to Agriculture, Food and Natural Resources -OR- 018060 CASE Introduction to AFNR	011004 Animal Biology -OR- 018062 CASE Animal Science -OR- 011003 Agricultural Biology	011005 Large Animal Management
Animal Systems: Veterinary	011000 Intro to Agriculture, Food and Natural Resources -OR- 018060 CASE Introduction to AFNR	011004 Animal Biology -OR- 018062 CASE Animal Science -OR- 011003 Agricultural Biology	011015 Veterinary Science
Animal Systems: Equine	011000 Intro to Agriculture, Food and Natural Resources -OR- 018060 CASE Introduction to AFNR	011004 Animal Biology -OR- 018062 CASE Animal Science -OR- 011003 Agricultural Biology	011014 Equine Science
Animal Systems: Biotechnology	011000 Intro to Agriculture, Food and Natural Resources -OR- 018060 CASE Introduction to AFNR	011004 Animal Biology -OR- 018062 CASE Animal Science -OR- 011003 Agricultural Biology	012004 Biotechnology -OR- 018063 CASE Animal And Plant Biotechnology
Plant Systems: Biotech	011000 Intro to Agriculture, Food and Natural Resources -OR- 018060 CASE Introduction to AFNR	011007 Plant Science/Horticulture -OR- 018061 CASE Plant Science -OR- 011003 Agricultural Biology	012004 Biotechnology -OR- 018063 CASE Animal And Plant Biotechnology
Plant Systems: Agronomy	011000 Intro to Agriculture, Food and Natural Resources -OR- 018060 CASE Introduction to AFNR	011007 Plant Science/Horticulture -OR- 018061 CASE Plant Science -OR- 011003 Agricultural Biology	011008 Agronomic Science
Plant Systems: Plant Biology	011000 Intro to Agriculture, Food and Natural Resources -OR- 018060 CASE Introduction to AFNR	011007 Plant Science/Horticulture -OR- 018061 CASE Plant Science -OR- 011003 Agricultural Biology	011016 Plant Biology

Plant Systems: Nursery and Landscape	011000 Intro to Agriculture, Food and Natural Resources -OR- 018060 CASE Introduction to AFNR	011007 Plant Science/Horticulture -OR- 018061 CASE Plant Science -OR- 011003 Agricultural Biology	012001 Nursery and Landscape
Plant Systems: Floriculture	011000 Intro to Agriculture, Food and Natural Resources -OR- 018060 CASE Introduction to AFNR	011007 Plant Science/Horticulture -OR- 018061 CASE Plant Science -OR- 011003 Agricultural Biology	012002 Floriculture
Plant Systems: Turf	011000 Intro to Agriculture, Food and Natural Resources -OR- 018060 CASE Introduction to AFNR	011007 Plant Science/Horticulture -OR- 018061 CASE Plant Science -OR- 011003 Agricultural Biology	012003 Turf Management
Food Systems: Food & Nutritional Science	090107 Human Food, Nutrition and Wellness -OR- 011000 Intro to Agriculture, Food and Natural Resources -OR- 018060 CASE Introduction to AFNR	014000 Food Science -OR- 018080 FNS Food Production, Nutrition, and Health	014001 Advanced Food Science -OR- 018081 FNS Food Science
Natural Resources Systems: Advanced Management	011000 Intro to Agriculture, Food and Natural Resources -OR- 018060 CASE Introduction to AFNR	013000 Natural Resources	013002 Advanced Natural Resources
Natural Resources Systems: Wildife Management	011000 Intro to Agriculture, Food and Natural Resources -OR- 018060 CASE Introduction to AFNR	013000 Natural Resources	013001 Wildlife Management
Environmental Service Systems: Environmental Science	011000 Intro to Agriculture, Food and Natural Resources -OR- 018060 CASE Introduction to AFNR	018049 Environmental Science	018050 Advanced Placement Environmental Science

Power, Structural, and Technical Systems: Power and Tech	011000 Intro to Agriculture, Food and Natural Resources -OR- 018060 CASE Introduction to AFNR	016000 Power, Structure, and Technical Systems Fundamentals	016003 Power and Technology (AG)
Power, Structural, and Technical Systems: Structure Systems	011000 Intro to Agriculture, Food and Natural Resources -OR- 018060 CASE Introduction to AFNR	016000 Power, Structure, and Technical Systems Fundamentals	016002 Structural Systems (AG) -OR- 100110 Principles of Construction Technology (STS)
Power, Structural, and Technical Systems: Metals & Fab	011000 Intro to Agriculture, Food and Natural Resources -OR- 018060 CASE Introduction to AFNR	016000 Power, Structure, and Technical Systems Fundamentals -OR- 016004 Welding (AG) -OR- 101930 Manufacturing Welding (STS)	016005 Metals and Fabrication -OR- 101940 Advanced Welding Fabrication and Manufacturing (STS)
FNS: Food & Nutrition Science Certified	018080 FNS Food Production, Nutrition, and Health	018081 FNS Food Science -OR- 018082 FNS Nutrition Science	018083 FNS Food and Nutrition Research and Development

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NEBRASKA
DEPARTMENT OF EDUCATION

2016-2017 Nebraska Career Education Programs of Study

Business, Marketing, and Management Career Field

Business, Management and Administration Cluster

Cluster Level Program of Study (POS) Full Year Course 1 YEAR

Sequence of CTE Courses	Introduction Course	Intermediate Course	Capstone Course
Accounting	032300 Introduction to Business, Marketing, & Management -OR- 032400 College Introduction to Business	032802 Management and Leadership	030300 Accounting (1 YEAR) -OR- 030301 Advanced Accounting (1 YEAR) -OR- 030302 College Principles of Accounting (1 YEAR)
Law	032300 Introduction to Business, Marketing, & Management -OR- 032400 College Introduction to Business	030300 Accounting (1 YEAR)	030900 Business Law
Management	032300 Introduction to Business, Marketing, & Management -OR- 032400 College Introduction to Business	032802 Management and Leadership	032370 Entrepreneurship -OR- 032600 College Introduction to Entrepreneurship
Entrepreneurship	032300 Introduction to Business, Marketing, & Management -OR- 032400 College Introduction to Business	030300 Accounting (1 YEAR)	032370 Entrepreneurship -OR- 032600 College Introduction to Entrepreneurship
Academy	032400 College Introduction to Business		030302 College Principles of Accounting (1 YEAR) -OR- 032600 College Introduction to Entrepreneurship

Pathway Level Program of Study (POS) Full Year Course

Sequence of CTE Courses	Introduction Course	Intermediate Course	Capstone Course
Accounting	032802 Management and Leadership	032370 Entrepreneurship -OR- 032600 College Introduction to Entrepreneurship	030300 Accounting -OR- 032400 College Introduction to Business -OR- 030302 College Principles of Accounting
Academy	032802 Management and Leadership	030300 Accounting	032400 College Introduction to Business
Business Technology Communications	270501 Information Technology Applications I	270502 Information Technology Applications II	030600 Business Communications
Business Technology Applications	033422 Computer Applications	270501 Information Technology Applications I	270502 Information Technology Applications II

Approved National Models Program of Study (POS) Full Year Course

National POS	Introduction Course	Intermediate Course	Capstone Course
NAF Academy of Finance	030803 Financial Services	032400 College Introduction to Business	030802 Insurance -OR- 034100 Business in a Global Economy -OR- 030801 Financial Planning -OR- 032370 Entrepreneurship
High School of Business	032300 Introduction to Business, Marketing, & Management	031800 Business Economics	038100 Marketing -AND- 033001 Principles of Finance -AND- 032802 Management and Leadership -AND- 031805 Business Strategies

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2016-2017 Nebraska Career Education Programs of Study

Business, Marketing, and Management Career Field

Finance Cluster

Cluster Level Program of Study (POS) Full Year Course

Sequence of CTE Courses	Introduction Course	Intermediate Course	Capstone Course
Financial Management	030300 Accounting		030302 College Principles of Accounting -OR- 030301 Advanced Accounting -OR- 033002 College Wealth Building and Financial Management
Accounting	033000 Personal Finance		030300 Accounting -OR- 030302 College Principles of Accounting
Academy	033002 College Wealth Building and Financial Management		030302 College Principles of Accounting
Economics	031800 Business Economics -OR- 151000 Economics		030300 Accounting -OR- 030302 College Principles of Accounting

Pathway Level Program of Study (POS) Full Year Course

Sequence of CTE Courses	Introduction Course	Intermediate Course	Capstone Course
Accounting	033000 Personal Finance	031800 Business Economics -OR- 151000 Economics	030300 Accounting -OR- 030302 College Principles of Accounting -OR- 033002 College Wealth Building and Financial Management

AP Economics	033000 Personal Finance	038501 Advanced Placement Microeconomics -OR- 038503 College Microeconomics	038500 Advanced Placement Macroeconomics -OR- 038502 College Macroeconomics
Academy	038501 Advanced Placement Microeconomics -OR- 038503 College Microeconomics	038500 Advanced Placement Macroeconomics -OR- 038502 College Macroeconomics	030302 College Principles of Accounting -OR- 033002 College Wealth Building and Financial Management -OR- 030300 Accounting

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2016-2017 Nebraska Career Education Programs of Study

Business, Marketing, and Management Career Field

Hospitality and Tourism Cluster

Cluster Level Program of Study (POS) Full Year Course

Sequence of CTE Courses	Introduction Course	Intermediate Course	Capstone Course
Hospitality & Tourism	032300 Introduction to Business, Marketing, & Management	038100 Marketing	370010 Hospitality & Tourism

Pathway Level Program of Study (POS) Full Year Course

Sequence of CTE Courses	Introduction Course	Intermediate Course	Capstone Course
Restaurants, Food and Beverage Services Prostart	090107 Human Food, Nutrition and Wellness	370030 Prostart I	370031 Prostart II
Restaurants, Food and Beverage Services Culinary	090107 Human Food, Nutrition and Wellness	370021 Culinary Skills I	370022 Culinary Skills II

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2016-2017 Nebraska Career Education Programs of Study

Business, Marketing, and Management Career Field

Marketing Cluster

Cluster Level Program of Study (POS) Full Year Course

Sequence of CTE Courses	Introduction Course	Intermediate Course	Capstone Course
Marketing	038100 Marketing	038101 Marketing Management	038201 College Principles of Marketing -OR- 038200 Advanced Marketing
Marketing Entrepreneurship	038100 Marketing	038101 Marketing Management	032370 Entrepreneurship -OR- 032600 College Introduction to Entrepreneurship

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2016-2017 Nebraska Career Education Programs of Study

Communication and Information Systems Career Field

Arts, A/V Technology and Communications Cluster

Cluster Level Program of Study (POS)

Sequence of CTE Courses	Introduction Course	Intermediate Course	Capstone Course
Arts & A/V Technology	270608 Introduction to Media	270611 Introduction to Digital Design	270609 Media Production I -OR- 270612 Intermediate Digital Design

Pathway Level Program of Study (POS)

Sequence of CTE Courses	Introduction Course	Intermediate Course	Capstone Course
Media (Journalism & Broadcasting)	270608 Introduction to Media	270609 Media Production I	270610 Media Production II
Digital Design (Visual Arts)	270611 Introduction to Digital Design	270612 Intermediate Digital Design	270613 Advanced Digital Design

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2016-2017 Nebraska Career Education Programs of Study

Communication and Information Systems Career Field

Information Technology Cluster

Cluster Level Program of Study (POS)

Sequence of CTE Courses	Introduction Course	Intermediate Course	Capstone Course
Information Technology	270501 Information Technology Applications I	270502 Information Technology Applications II	270504 Information Technology Fundamentals -OR- 270611 Introduction to Digital Design -OR- 270604 Web Design

Pathway Level Program of Study (POS)

Sequence of CTE Courses	Introduction Course	Intermediate Course	Capstone Course
Network Systems & Telecommunications	270504 Information Technology Fundamentals	270606 PC Support and Maintenance	270601 Network Systems
Information Support & Service	270504 Information Technology Fundamentals	270606 PC Support and Maintenance	270607 Information Technology Support
Programming & Software Development	270504 Information Technology Fundamentals	270401 Programming I	270402 Programming II
Web & Digital Communications	270611 Introduction to Digital Design	270602 Digital Media	270604 Web Design
CISCO	270505 CISCO I: Introduction to Networks	270506 CISCO II: Routing and Switching Essentials	270507 CISCO III: Scaling Networks

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2016-2017 Nebraska Career Education Programs of Study

Health Sciences Career Field

Health Sciences Cluster

Cluster Level Program of Study (POS)

Sequence of CTE Courses	Introduction Course	Intermediate Course	Capstone Course
Health Sciences	077300 Health Sciences I	077301 Health Sciences II	077302 Health Sciences III

Pathway Level Program of Study (POS)

Sequence of CTE Courses	Introduction Course	Intermediate Course	Capstone Course
Health Informatics	077300 Health Sciences I	077301 Health Sciences II -OR- 077600 Medical Terminology	077800 Health Information Technology -OR- 077812 Health Information Management and Ethics
Biotechnology Research	077300 Health Sciences I	077600 Medical Terminology -OR- 130210 Anatomy and Physiology	012004 Biotechnology -OR- 077304 Exploring the Clinical Lab
Therapeutic Certificated Services	077300 Health Sciences I	077301 Health Sciences II -OR- 077600 Medical Terminology	077400 Certificated Nursing Assistant -OR- 077402 Emergency Medical Technician and Certified Emergency Responder Technician (EMT/CERT) -OR- 077444 Pharmacy Technician -OR- 077401 Medication Aide -OR- 077446 Phlebotomy Technician
Behavioral Health	077300 Health Sciences I	077301 Health Sciences II	077801 Behavorial Health I -AND- 077802 Behavorial Health II

Life Span Performance	077300 Health Sciences I	130210 Anatomy and Physiology -OR- 077600 Medical Terminology	077500 Introduction to Sports Medicine -AND- 077702 Human Life Cycle Nutrition -OR- 077601 Exercise Science -AND- 077701 Performance Nutrition
Allied/Public Health	077300 Health Sciences I	077301 Health Sciences II	077900 Allied Health and Medicine -OR- 077303 Personal and Community Medical Issues/Public Health
PLTW Principles of Biomedical Science	077300 Health Sciences I	077301 Health Sciences II	077803 PLTW Principles of Biomedical Science I -AND- 077804 PLTW Principles of Biomedical Science II
PLTW Human Body Systems	077300 Health Sciences I	077301 Health Sciences II	077805 PLTW Human Body Systems I -AND- 077806 PLTW Human Body Systems II
PLTW Medical Interventions	077300 Health Sciences I	077301 Health Sciences II	077807 PLTW Medical Interventions I -AND- 077808 PLTW Medical Interventions II
PLTW Biomedical Innovation	077300 Health Sciences I	077301 Health Sciences II	077809 PLTW Biomedical Innovation I -AND- 077810 PLTW Biomedical Innovation II

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2016-2017 Nebraska Career Education Programs of Study

Human Sciences and Education Career Field

Education and Training Cluster

Cluster Level Program of Study (POS)

Sequence of CTE Courses	Introduction Course	Intermediate Course	Capstone Course
Education & Training Teaching	350002 Human Growth and Development	350001 Exploring Education and Training	350010 Experiencing Teaching
Education & Training Early Childhood	090119 Child Development	350015 Early Childhood Education I	350020 Early Childhood Education II

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2016-2017 Nebraska Career Education Programs of Study

Human Sciences and Education Career Field

Human Services Cluster

Cluster Level Program of Study (POS)

Sequence of CTE Courses	Introduction Course	Intermediate Course	Capstone Course
Human Sciences	090101 Introduction to Human Sciences/FCS	090107 Human Food, Nutrition and Wellness	350002 Human Growth and Development -OR- 090116 Relationships
Human Food, Development, and Behavior	090107 Human Food, Nutrition and Wellness	350002 Human Growth and Development -OR- 090119 Child Development	090116 Relationships

Pathway Level Program of Study (POS)

Sequence of CTE Courses	Introduction Course	Intermediate Course	Capstone Course
Consumer Services	090101 Introduction to Human Sciences/FCS	090104 Life and Career Readiness	033000 Personal Finance
Counseling & Mental Health Services	350002 Human Growth and Development	090116 Relationships	151200 Psychology -OR- 151210 AP Psychology
Early Childhood Development & Services	090119 Child Development	090117 Parenting Decisions -OR- 350002 Human Growth and Development	090116 Relationships -OR- 151200 Psychology
Textile Science	090103 Textiles, Construction & Design	090206 Fashion Design and Marketing	320600 Fundamentals of Entrepreneurship
Human Food, Nutrition, and Wellness	090101 Introduction to Human Sciences/FCS	090107 Human Food, Nutrition and Wellness	090108 Advanced Human Food, Nutrition & Wellness
Food and Nutrition Science	018080 FNS Food Production, Nutrition, and Health	018082 FNS Nutrition Science	018081 FNS Food Science
Housing	090101 Introduction to Human Sciences/FCS	090109 Housing and Interior Design	320600 Fundamentals of Entrepreneurship

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2016-2017 Nebraska Career Education Programs of Study

Human Sciences and Education Career Field

Law, Public Safety Corrections and Security Cluster

Pathway Level Program of Study (POS)

Sequence of CTE Courses	Introduction Course	Intermediate Course	Capstone Course
Correction Services	390010 Foundations of Law, Public Safety, Corrections, and Security	390015 Introduction to Criminal Justice	390025 Courts and Judicial Process
Law Enforcement Services	390010 Foundations of Law, Public Safety, Corrections, and Security	390015 Introduction to Criminal Justice	390026 Police and Society
Emergency and Fire Management	390010 Foundations of Law, Public Safety, Corrections, and Security	390015 Introduction to Criminal Justice	077402 Emergency Medical Technician and Certified Emergency Responder Technician (EMT/CERT)

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2016-2017 Nebraska Career Education Programs of Study

Skilled and Technical Sciences Career Field

Architecture and Construction Cluster

Cluster Level Program of Study (POS) Full Year Course

Sequence of CTE Courses	Introduction Course	Intermediate Course	Capstone Course
A & C Basic	100100 Introduction to the Built Environment	100140 Computer Aided Drafting	100110 Principles of Construction Technology (STS) -OR- 016002 Structural Systems (AG)

Pathway Level Program of Study (POS) Full Year Course

Sequence of CTE Courses	Introduction Course	Intermediate Course	Capstone Course
DPC - Drafting	100100 Introduction to the Built Environment	100140 Computer Aided Drafting -OR- 103192 Engineering Concepts	100141 Applications in Design and Pre-Construction
DPC - Engineering Arch Drafting	103191 Introduction to Engineering	103192 Engineering Concepts	100141 Applications in Design and Pre-Construction
DPC - Basic Drafting	100100 Introduction to the Built Environment	100130 Introduction to Architecture & Construction	100141 Applications in Design and Pre-Construction
DPC - Fundamental Drafting	100140 Computer Aided Drafting	100130 Introduction to Architecture & Construction	100141 Applications in Design and Pre-Construction
DPC - FCS Drafting	090109 Housing and Interior Design	100130 Introduction to Architecture & Construction	100141 Applications in Design and Pre-Construction
DPC - Arch Drafting	103191 Introduction to Engineering	100130 Introduction to Architecture & Construction	100141 Applications in Design and Pre-Construction
DPC - PLTW Drafting	100161 PLTW Introduction to Engineering Design	100130 Introduction to Architecture & Construction	100141 Applications in Design and Pre-Construction
DPC - PLTW Arch Drafting	100100 Introduction to the Built Environment -OR- 100140 Computer Aided Drafting	100130 Introduction to Architecture & Construction	100162 PLTW Civil Engineering and Architecture

CONST - Basic Construction	100100 Introduction to the Built Environment -OR- 100140 Computer Aided Drafting	100110 Principles of Construction Technology (STS) -OR- 016002 Structural Systems (AG)	100120 Advanced Construction Technology
CONST - PLTW Basic Construction	100161 PLTW Introduction to Engineering Design	100110 Principles of Construction Technology (STS) -OR- 016002 Structural Systems (AG)	100120 Advanced Construction Technology
CONST - Electricity Based	100405 Electricity	100110 Principles of Construction Technology (STS) -OR- 016002 Structural Systems (AG)	100120 Advanced Construction Technology
CONST - Construction Technology	100100 Introduction to the Built Environment	100405 Electricity	100120 Advanced Construction Technology
CONST - PLTW Construction Technology	100161 PLTW Introduction to Engineering Design	100405 Electricity	100120 Advanced Construction Technology

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NEBRASKA
DEPARTMENT OF EDUCATION

2016-2017 Nebraska Career Education Programs of Study

Skilled and Technical Sciences Career Field

Energy and Engineering Cluster

Cluster Level Program of Study (POS) Full Year Course

Sequence of CTE Courses	Introduction Course	Intermediate Course	Capstone Course
Energy and Engineering	100100 Introduction to the Built Environment -OR- 100140 Computer Aided Drafting	103191 Introduction to Engineering	103194 Robotics

Pathway Level Program of Study (POS) Full Year Course

Sequence of CTE Courses	Introduction Course	Intermediate Course	Capstone Course
Engineering and Technology: PLTW Civil I	100160 PLTW Principles of Engineering	100162 PLTW Civil Engineering and Architecture	100163 PLTW Engineering Design and Development
Engineering and Technology: PLTW Civil II	100161 PLTW Introduction to Engineering Design	100162 PLTW Civil Engineering and Architecture	100163 PLTW Engineering Design and Development
Engineering and Technology: PLTW Civil III	100160 PLTW Principles of Engineering		100162 PLTW Civil Engineering and Architecture
Engineering and Technology: PLTW Civil IV	100161 PLTW Introduction to Engineering Design		100162 PLTW Civil Engineering and Architecture
Engineering and Technology: PLTW Biotech I	100160 PLTW Principles of Engineering	100165 PLTW Biotechnical Engineering	100163 PLTW Engineering Design and Development
Engineering and Technology: PLTW Biotech II	100161 PLTW Introduction to Engineering Design	100165 PLTW Biotechnical Engineering	100163 PLTW Engineering Design and Development
Engineering and Technology: PLTW Biotech III	100160 PLTW Principles of Engineering		100165 PLTW Biotechnical Engineering
Engineering and Technology: PLTW Biotech IV	100161 PLTW Introduction to Engineering Design		100165 PLTW Biotechnical Engineering
Engineering and Technology: PLTW Computer I	100160 PLTW Principles of Engineering	101901 PLTW Computer Integrated Manufacturing	100163 PLTW Engineering Design and Development

Engineering and Technology: PLTW Computer II	100160 PLTW Principles of Engineering	101901 PLTW Computer Integrated Manufacturing	100163 PLTW Engineering Design and Development
Engineering and Technology: PLTW Computer III	100160 PLTW Principles of Engineering		101901 PLTW Computer Integrated Manufacturing
Engineering and Technology: PLTW Computer IV	100161 PLTW Introduction to Engineering Design		101901 PLTW Computer Integrated Manufacturing
Engineering and Technology: PLTW Electronics I	100160 PLTW Principles of Engineering		100403 PLTW Digital Electronics
Engineering and Technology: PLTW Electronics II	100161 PLTW Introduction to Engineering Design		100403 PLTW Digital Electronics
Engineering and Technology: PLTW Design I	100160 PLTW Principles of Engineering		100163 PLTW Engineering Design and Development
Engineering and Technology: PLTW Design II	100161 PLTW Introduction to Engineering Design		100163 PLTW Engineering Design and Development
Engineering and Technology: PLTW Aerospace I	100160 PLTW Principles of Engineering	100164 PLTW Aerospace Engineering	100163 PLTW Engineering Design and Development
Engineering and Technology: PLTW Aerospace II	100161 PLTW Introduction to Engineering Design	100164 PLTW Aerospace Engineering	100163 PLTW Engineering Design and Development
Engineering and Technology: PLTW Aerospace III	100160 PLTW Principles of Engineering		100164 PLTW Aerospace Engineering
Engineering and Technology: PLTW Aerospace IV	100161 PLTW Introduction to Engineering Design		100164 PLTW Aerospace Engineering
Engineering and Technology: Non-PLTW	103191 Introduction to Engineering	103192 Engineering Concepts	103193 Engineering Applications -OR- 103194 Robotics
Energy - PLTW POE	100406 Energy Exploration	100160 PLTW Principles of Engineering	100407 Energy Generation and Distribution
Energy - PLTW IED	100406 Energy Exploration	100161 PLTW Introduction to Engineering Design	100407 Energy Generation and Distribution
Energy - Non-PLTW	100406 Energy Exploration	100408 Green Energy	100407 Energy Generation and Distribution
Robotics	100100 Introduction to the Built Environment	103194 Robotics	103195 Advanced Robotics

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2016-2017 Nebraska Career Education Programs of Study

Skilled and Technical Sciences Career Field

Manufacturing Cluster

Cluster Level Program of Study (POS) Full Year Course

Sequence of CTE Courses	Introduction Course	Intermediate Course	Capstone Course
Man - Drafting	100100 Introduction to the Built Environment	100140 Computer Aided Drafting	101920 Manufacturing - Woods
Man - Basic	100100 Introduction to the Built Environment -OR- 100140 Computer Aided Drafting	101920 Manufacturing - Woods	101930 Manufacturing Welding (STS) -OR- 016004 Welding (AG)
Man - Construction	100100 Introduction to the Built Environment -OR- 100140 Computer Aided Drafting	101920 Manufacturing - Woods	100110 Principles of Construction Technology (STS)
Man - Metals	100100 Introduction to the Built Environment -OR- 100140 Computer Aided Drafting	101400 Manufacturing - Metals	101930 Manufacturing Welding (STS) -OR- 016004 Welding (AG)
Man - Weld	100100 Introduction to the Built Environment	100140 Computer Aided Drafting	101930 Manufacturing Welding (STS) -OR- 016004 Welding (AG)
Man - PLTW Woods	100161 PLTW Introduction to Engineering Design		101920 Manufacturing - Woods
Man - PLTW Metals	100161 PLTW Introduction to Engineering Design		101400 Manufacturing - Metals
Man - PLTW Weld	100161 PLTW Introduction to Engineering Design		101930 Manufacturing Welding (STS) -OR- 016004 Welding (AG)

Pathway Level Program of Study (POS) Full Year Course 1 YEAR

Sequence of CTE Courses	Introduction Course	Intermediate Course	Capstone Course
Prod - Standard Woods	100100 Introduction to the Built Environment -OR- 100140 Computer Aided Drafting	101920 Manufacturing - Woods	101921 Advanced Woods Fabrication and Manufacturing
Prod - Engineering Woods	100161 PLTW Introduction to Engineering Design -OR- 103191 Introduction to Engineering	101920 Manufacturing - Woods	101921 Advanced Woods Fabrication and Manufacturing
Prod - Standard Metals	100100 Introduction to the Built Environment -OR- 100140 Computer Aided Drafting	101400 Manufacturing - Metals	101401 Advanced Metals Fabrication and Manufacturing
Prod - Engineering Metals	100161 PLTW Introduction to Engineering Design -OR- 103191 Introduction to Engineering	101400 Manufacturing - Metals	101401 Advanced Metals Fabrication and Manufacturing
Prod - Standard Welding	100100 Introduction to the Built Environment -OR- 100140 Computer Aided Drafting	101930 Manufacturing Welding (STS) -OR- 016004 Welding (AG)	101940 Advanced Welding Fabrication and Manufacturing (STS) -OR- 016005 Metals and Fabrication
Prod - Engineering Welding	100161 PLTW Introduction to Engineering Design -OR- 103191 Introduction to Engineering	101930 Manufacturing Welding (STS) -OR- 016004 Welding (AG)	101940 Advanced Welding Fabrication and Manufacturing (STS) -OR- 016005 Metals and Fabrication
Prod - Standard Plastics	100100 Introduction to the Built Environment -OR- 100140 Computer Aided Drafting	101950 Manufacturing Plastics	101951 Advanced Plastics Fabrication and Manufacturing
Prod - Engineering Plastics	100161 PLTW Introduction to Engineering Design -OR- 103191 Introduction to Engineering	101950 Manufacturing Plastics	101951 Advanced Plastics Fabrication and Manufacturing
MPPD - Basic Electronics	100100 Introduction to the Built Environment	100401 Introduction to Electronics	100402 Advanced Electronics
MPPD - Basic Mechatronics	100100 Introduction to the Built Environment	100401 Introduction to Electronics	101900 Introduction to Mechatronics

MPPD - Engineering Basic Mechatronics	100161 PLTW Introduction to Engineering Design -OR- 103191 Introduction to Engineering	100401 Introduction to Electronics	101900 Introduction to Mechatronics
MPPD - Electronics / Mechatronics	100401 Introduction to Electronics	100402 Advanced Electronics	101900 Introduction to Mechatronics
MPPD - Standard Mechatronics witn CIM	100100 Introduction to the Built Environment	101901 PLTW Computer Integrated Manufacturing	101900 Introduction to Mechatronics
MPPD - PLTW Standard Mechatronics	100161 PLTW Introduction to Engineering Design -OR- 103191 Introduction to Engineering	101901 PLTW Computer Integrated Manufacturing	101900 Introduction to Mechatronics

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NEBRASKA
DEPARTMENT OF EDUCATION

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Skilled and Technical Sciences Career Field

Transportation, Distribution and Logistics Cluster

Cluster Level Program of Study (POS) Full Year Course

Sequence of CTE Courses	Introduction Course	Intermediate Course	Capstone Course
Transportation, Distribution, and Logistics	101600 Introduction to Energy, Power, and Transportation Systems -OR- 100100 Introduction to the Built Environment -OR- 016003 Power and Technology (AG)	101601 Emerging Technologies in Transportation and Logistics	101620 Transportation Technology Services & Maintenance

Pathway Level Program of Study (POS) Full Year Course

Sequence of CTE Courses	Introduction Course	Intermediate Course	Capstone Course
Facility and Mobile Equipment Maintenance - Traditional	101600 Introduction to Energy, Power, and Transportation Systems -OR- 100100 Introduction to the Built Environment -OR- 016003 Power and Technology (AG)	101620 Transportation Technology Services & Maintenance	101630 Automotive & Mobile Equipment Service & Repair
Facility and Mobile Equipment Maintenance - PLTW	101600 Introduction to Energy, Power, and Transportation Systems -OR- 100100 Introduction to the Built Environment -OR- 016003 Power and Technology (AG)	101620 Transportation Technology Services & Maintenance	100403 PLTW Digital Electronics
Facility and Mobile Equipment Maintenance - Traditional Auto Body	101600 Introduction to Energy, Power, and Transportation Systems -OR- 100100 Introduction to the Built Environment -OR- 016003 Power and Technology (AG)	101620 Transportation Technology Services & Maintenance	101640 Automotive Body Repair and Refinishing

Facility and Mobile Equipment Maintenance - Welding Auto Body	101600 Introduction to Energy, Power, and Transportation Systems -OR- 100100 Introduction to the Built Environment -OR- 016003 Power and Technology (AG)	101930 Manufacturing Welding (STS) -OR- 016004 Welding (AG)	101640 Automotive Body Repair and Refinishing
Warehousing and Distribution Center Operations	101601 Emerging Technologies in Transportation and Logistics	101610 Distribution and Logistics	101650 Business Logistics

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