



.....
Nebraska Career Education
PROGRAMS & STUDY
.....



2013-2014

WHY PROGRAMS OF STUDY?



THE FEDERAL CARL D. PERKINS Career and Technical Education Act of 2006 (Perkins IV) requires eligible recipients of Perkins Funds to have at least one approved program of study in career education.

A program of study includes the CTE, core, and other required/supportive courses that prepare a student for their career area. It should also identify extended learning opportunities such as career student organizations, work-based learning, and other school and community activities. The primary purpose of a program of study is to provide for successful transitions between secondary and postsecondary education.



In addition to qualifying for Perkins funds, Nebraska Career Education has identified the following advantages of identifying programs of study:

- Provide rigorous and relevant curriculum.
- Provide a tool for career guidance to help students prepare their Personal Learning Plan.
- Offer students a coordinated, scaffolded and sequenced curriculum in a career area.
- Align to Nebraska's economic development priorities and workforce needs.
- Promote alignment between secondary and postsecondary education.
- Provide smoother transitions for students from secondary to postsecondary education.
- Provide secondary students with opportunities to acquire postsecondary credits.



Sequences of CTE Courses as part of the Approved State Model Programs of Study



2013-2014

Agriculture, Food and Natural Resources

Cluster Level

Sequence of CTE Courses	Introduction Course	Intermediate Course	Capstone Course
Agriculture, Food and Natural Resources	011000 Intro to Agriculture, Food and Natural Resources	011004 Animal Biology -AND- 011007 Plant Science -AND- 011009 Agribusiness	

Note: A Program of Study must include a minimum of three semesters.

Pathway Level

Sequence of CTE Courses	Introduction Course	Intermediate Course	Capstone Course
Agribusiness Systems	011000 Intro to Agriculture, Food and Natural Resources	011009 Agribusiness	011010 Economics & Agribusiness Management -OR- 031800 Business Economics -OR- 151000 Economics
Animal Systems: Large Animal	011000 Intro to Agriculture, Food and Natural Resources	011004 Animal Biology	011005 Large Animal Management
Animal Systems: Companion Animal	011000 Intro to Agriculture, Food and Natural Resources	011004 Animal Biology	011006 Companion Animals
Animal Systems: Biotechnology	011000 Intro to Agriculture, Food and Natural Resources	011004 Animal Biology	012004 Biotechnology
Natural Resources Systems	011000 Intro to Agriculture, Food and Natural Resources	013000 Natural Resources	013002 Advanced Natural Resources
Plant Systems: Plant Science Biotech	011000 Intro to Agriculture, Food and Natural Resources	011007 Plant Science	012004 Biotechnology
Plant Systems: Plant Science Agron	011000 Intro to Agriculture, Food and Natural Resources	011007 Plant Science	011008 Agronomic Science
Plant Systems: Plant Science Biology	011000 Intro to Agriculture, Food and Natural Resources	011007 Plant Science	011016 Plant Biology
Plant Systems: Horticulture Nursery	011000 Intro to Agriculture, Food and Natural Resources	012000 Horticulture	012001 Nursery and Landscape
Plant Systems: Horticulture Floriculture	011000 Intro to Agriculture, Food and Natural Resources	012000 Horticulture	012002 Floriculture

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Sequences of CTE Courses as part of the Approved State Model Programs of Study



2013-2014

Agriculture, Food and Natural Resources

Pathway Level (cont.)

Sequence of CTE Courses	Introduction Course	Intermediate Course	Capstone Course
Power, Structural, and Technical Systems: Power and Tech	011000 Intro to Agriculture, Food and Natural Resources	016000 Power, Structure, and Technical Systems Fundamentals	016003 Power and Technology
Power, Structural, and Technical Systems: Structure Systems	011000 Intro to Agriculture, Food and Natural Resources	016000 Power, Structure, and Technical Systems Fundamentals	016002 Structural Systems
Power, Structural, and Technical Systems: Metals & Fab	011000 Intro to Agriculture, Food and Natural Resources	016000 Power, Structure, and Technical Systems Fundamentals	016005 Metals and Fabrication
Food & Nutritional Science	090107 Human Food, Nutrition and Wellness -OR- 011000 Intro to Agriculture, Food and Natural Resources	014000 Food Science	014001 Advanced Food Science

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Sequences of CTE Courses as part of the Approved State Model Programs of Study



2013-2014 Business Management and Administration

Cluster Level

Full Year Course

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

Note: A Program of Study must include a minimum of three semesters.

Pathway Level

Full Year Course

Sequence of CTE Courses	Introduction Course	Intermediate Course	Capstone Course
Accounting	032802 Management and Leadership	032370 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

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Sequences of CTE Courses as part of the Approved State Model Programs of Study



2013-2014

Business Management and Administration

Approved National Models

 Full Year Course

Sequence of CTE Courses	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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Sequences of CTE Courses as part of the Approved State Model Programs of Study



2013-2014 Finance

Cluster Level  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 

Note: A Program of Study must include a minimum of three semesters.

Pathway Level  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	038500 Advanced Placement Macroeconomics
Academy	038501 Advanced Placement Microeconomics	038500 Advanced Placement Macroeconomics	030302 College Principles of Accounting  -OR- 033002 College Wealth Building and Financial Management -OR- 030300 Accounting 

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Sequences of CTE Courses as part of the Approved State Model Programs of Study



2013-2014

Hospitality and Tourism

Cluster Level

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

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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Sequences of CTE Courses as part of the Approved State Model Programs of Study



2013-2014 Marketing

Cluster Level

 Full Year Course

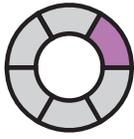
Sequence of CTE Courses	Introduction Course	Intermediate Course	Capstone Course
Marketing	038100 Marketing	038101 Marketing Management	038201 College Principles of Marketing -OR- 038200 Advanced Marketing
Marketing Entrepreneurship	038100 Marketing	038101 Marketing Management	032370 Entrepreneurship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

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Sequences of CTE Courses as part of the Approved State Model Programs of Study



2013-2014 Arts, A/V Technology and Communications

Cluster Level

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

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

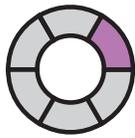
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Sequences of CTE Courses as part of the Approved State Model Programs of Study



2013-2014 Information Technology

Cluster Level

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

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: IT Essentials - PC Hardware and Software	270506 CISCO II: CCNA Discovery	270507 CISCO III: CCNA Exploration

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Sequences of CTE Courses as part of the Approved State Model Programs of Study



2013-2014 Health Sciences

Cluster Level

Sequence of CTE Courses	Introduction Course	Intermediate Course	Capstone Course
Health Sciences	077300 Introduction to Health Sciences	077301 Advanced Health Science -OR- 077600 Medical Terminology	130210 Anatomy and Physiology
Health Sciences II	077300 Introduction to Health Sciences	077700 Clinical Nutrition	130210 Anatomy and Physiology

Pathway Level

Sequence of CTE Courses	Introduction Course	Intermediate Course	Capstone Course
Biotechnology Research and Development	077300 Introduction to Health Sciences	077304 Exploring the Clinical Lab -OR- 077600 Medical Terminology	012004 Biotechnology
Health Informatics	077300 Introduction to Health Sciences	077301 Advanced Health Science -OR- 077600 Medical Terminology	077800 Health Information Technology
Supportive Services	077300 Introduction to Health Sciences	077301 Advanced Health Science -OR- 077600 Medical Terminology	077303 Personal and Community Medical Issues
Therapeutic Services CNA	077300 Introduction to Health Sciences	077301 Advanced Health Science -OR- 077600 Medical Terminology	077400 Nursing Assistant Certification
Therapeutic Services EMT	077300 Introduction to Health Sciences	077301 Advanced Health Science -OR- 077600 Medical Terminology	077402 Emergency Medical Technician-B (EMT-B)
Therapeutic Services Med Aide	077300 Introduction to Health Sciences	130210 Anatomy and Physiology -OR- 077600 Medical Terminology	077400 Nursing Assistant Certification -AND- 077401 Medication Aide
Therapeutic Services Dietetics	077300 Introduction to Health Sciences	130210 Anatomy and Physiology -OR- 077600 Medical Terminology	077700 Clinical Nutrition
Therapeutic Services Performance	077300 Introduction to Health Sciences	130210 Anatomy and Physiology	077500 Introduction to Sports Medicine

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Sequences of CTE Courses as part of the Approved State Model Programs of Study



2013-2014 Education and Training

Cluster Level

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

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Sequences of CTE Courses as part of the Approved State Model Programs of Study



2013-2014 Government and Public Administration

No state model program of study is available at the cluster or pathway level.

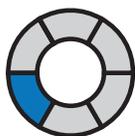
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Sequences of CTE Courses as part of the Approved State Model Programs of Study



2013-2014 Human Services

Cluster Level

Sequence of CTE Courses	Introduction Course	Intermediate Course	Capstone Course
Human Sciences	090101 Introduction to Human Sciences/FCS	090107 Human Food, Nutrition and Wellness	090104 Life and Career Readiness -OR- 350002 Human Development -OR- 090116 Relationships
Human Food, Development, and Behavior	090107 Human Food, Nutrition and Wellness	350002 Human Development -OR- 090119 Child Development	090103 Textiles, Construction & Design -OR- 090116 Relationships

Pathway Level

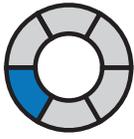
Sequence of CTE Courses	Introduction Course	Intermediate Course	Capstone Course
Consumer Services	090101 Introduction to Human Sciences/FCS	090104 Life and Career Readiness	033000 Personal Finance
Counseling & Mental Health Services	350002 Human Development	090116 Relationships -OR- 090208 Leadership and Ethics in Human Sciences	151200 Psychology -OR- 151210 AP Psychology
Early Childhood Development & Services	090119 Child Development	090117 Parenting Decisions -OR- 350002 Human Development	090116 Relationships -OR- 151200 Psychology -OR- 090104 Life and Career Readiness
Family & Community Services	090101 Introduction to Human Sciences/FCS	090208 Leadership and Ethics in Human Sciences	090104 Life and Career Readiness -OR- 090116 Relationships
Textiles	090103 Textiles, Construction & Design	090109 Housing and Interior Design	090206 Fashion Design and Marketing -OR- 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
Human Nutrition	090107 Human Food, Nutrition and Wellness	090108 Advanced Human Food, Nutrition & Wellness	077700 Clinical Nutrition
Family and Community Leaders	090208 Leadership and Ethics in Human Sciences	151200 Psychology -OR- 090116 Relationships	090104 Life and Career Readiness

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Sequences of CTE Courses as part of the Approved State Model Programs of Study



2013-2014 Law, Public Safety, Corrections and Security

Cluster Level

No state model program of study is available at the cluster level.

Pathway Level

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-B (EMT-B)

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Sequences of CTE Courses as part of the Approved State Model Programs of Study



2013-2014

Architecture and Construction

Cluster Level

 Full Year Course

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

Note: A Program of Study must include a minimum of three semesters.

Pathway Level

 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 Language of Architecture & Construction	100141 Applications in Design and Pre-Construction
DPC - Fundamental Drafting	100140 Computer Aided Drafting -OR- 090109 Housing and Interior Design	100130 Language of Architecture & Construction	100141 Applications in Design and Pre-Construction
DPC - Arch Drafting	103191 Introduction to Engineering	100130 Language of Architecture & Construction	100141 Applications in Design and Pre-Construction
DPC - PLTW Drafting	100161 PLTW Introduction to Engineering Design 	100130 Language of 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 Language of 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 -OR- 016002 Structural Systems	100120 Advanced Construction Technology
CONST - PLTW Basic Construction	100161 PLTW Introduction to Engineering Design 	100110 Principles of Construction Technology -OR- 016002 Structural Systems	100120 Advanced Construction Technology
CONST - Electricity Based	100405 Electricity	100110 Principles of Construction Technology -OR- 016002 Structural Systems	100120 Advanced Construction Technology

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Sequences of CTE Courses as part of the Approved State Model Programs of Study



2013-2014

Architecture and Construction

Pathway Level (cont.)

Full Year Course

Sequence of CTE Courses	Introduction Course	Intermediate Course	Capstone Course
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
Maintenance and Operation I	100100 Introduction to the Built Environment	100800 Principles of Maintenance and Operations	100120 Advanced Construction Technology
Maintenance and Operation II	100161 PLTW Introduction to Engineering Design	100800 Principles of Maintenance and Operations	100120 Advanced Construction Technology

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Sequences of CTE Courses as part of the Approved State Model Programs of Study



2013-2014 Manufacturing

Cluster Level			Full Year Course
Sequence of CTE Courses	Introduction Course	Intermediate Course	Capstone Course
Man - Drafting	100100 Introduction to the Built Environment -AND- 100140 Computer Aided Drafting	101920 Manufacturing - Woods	
Man - Basic	100100 Introduction to the Built Environment -OR- 100140 Computer Aided Drafting	101920 Manufacturing - Woods -AND- 101930 Manufacturing Welding	
Man - Construction	100100 Introduction to the Built Environment -OR- 100140 Computer Aided Drafting	101920 Manufacturing - Woods -AND- 100110 Principles of Construction Technology	
Man - Metals	100100 Introduction to the Built Environment -OR- 100140 Computer Aided Drafting	101400 Manufacturing - Metals -AND- 101930 Manufacturing Welding	
Man - Weld	100100 Introduction to the Built Environment -AND- 100140 Computer Aided Drafting	101930 Manufacturing Welding	
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	

Note: A Program of Study must include a minimum of three semesters.

Pathway Level			Full Year Course
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 - PLTW Woods	100161 PLTW Introduction to Engineering Design -OR- 103191 Introduction to Engineering	101920 Manufacturing - Woods	101921 Advanced Woods Fabrication and Manufacturing

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Sequences of CTE Courses as part of the Approved State Model Programs of Study



2013-2014 Manufacturing

Pathway Level (cont.)

 Full Year Course

Sequence of CTE Courses	Introduction Course	Intermediate Course	Capstone Course
Prod - Standard Metals	100100 Introduction to the Built Environment -OR- 100140 Computer Aided Drafting	101400 Manufacturing - Metals	101401 Advanced Metals Fabrication and Manufacturing
Prod - PLTW 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	101940 Advanced Welding Fabrication and Manufacturing -OR- 016005 Metals and Fabrication
Prod - PLTW Welding	100161 PLTW Introduction to Engineering Design -OR- 103191 Introduction to Engineering 	101930 Manufacturing Welding	101940 Advanced Welding Fabrication and Manufacturing -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 - PLTW Plastics	100161 PLTW Introduction to Engineering Design -OR- 103191 Introduction to Engineering 	101950 Manufacturing Plastics	101951 Advanced Plastics Fabrication and Manufacturing
MPPD - Basic Mechatronics	100100 Introduction to the Built Environment	100401 Electronics - Comprehensive	101900 Introduction to Mechatronics
MPPD - PLTW Basic Mechatronics	100161 PLTW Introduction to Engineering Design -OR- 103191 Introduction to Engineering 	100401 Electronics - Comprehensive	101900 Introduction to Mechatronics
MPPD - Standard Mechatronics with 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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Sequences of CTE Courses as part of the Approved State Model Programs of Study



2013-2014 Manufacturing

Pathway Level (cont.)			 Full Year Course
Sequence of CTE Courses	Introduction Course	Intermediate Course	Capstone Course
Manufacturing Production Process Development I	101900 Introduction to Mechatronics	101920 Manufacturing - Woods -OR- 101400 Manufacturing - Metals -OR- 101930 Manufacturing Welding -OR- 101950 Manufacturing Plastics	101910 Advanced Mechatronics
Manufacturing Production Process Development II	100161 PLTW Introduction to Engineering Design 	101920 Manufacturing - Woods -OR- 101400 Manufacturing - Metals -OR- 101930 Manufacturing Welding -OR- 101950 Manufacturing Plastics	101910 Advanced Mechatronics
Manufacturing Production Process Development III	101900 Introduction to Mechatronics	101901 PLTW Computer Integrated Manufacturing 	101910 Advanced Mechatronics
Manufacturing Production Process Development IV	100161 PLTW Introduction to Engineering Design 	101901 PLTW Computer Integrated Manufacturing 	101910 Advanced Mechatronics

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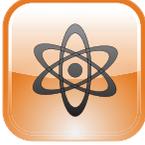
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Sequences of CTE Courses as part of the Approved State Model Programs of Study



2013-2014

Science, Technology, Engineering, and Mathematics

Cluster Level				Full Year Course
Sequence of CTE Courses	Introduction Course	Intermediate Course	Capstone Course	
Science, Technology, Engineering, and Math	100100 Introduction to the Built Environment -OR- 100140 Computer Aided Drafting	103191 Introduction to Engineering	103194 Robotics	
Principles of Technology	100503 Principles of Technology	100160 PLTW Principles of Engineering	100161 PLTW Introduction to Engineering Design	

Pathway Level				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	

Note: A Program of Study must include a minimum of three semesters.

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Sequences of CTE Courses as part of the Approved State Model Programs of Study



2013-2014

Science, Technology, Engineering, and Mathematics

Pathway Level (cont.)

Full Year Course

Sequence of CTE Courses	Introduction Course	Intermediate Course	Capstone Course
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

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Sequences of CTE Courses as part of the Approved State Model Programs of Study



2013-2014

Science, Technology, Engineering, and Mathematics

Pathway Level (cont.)

 Full Year Course

Sequence of CTE Courses	Introduction Course	Intermediate Course	Capstone Course
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 

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Sequences of CTE Courses as part of the Approved State Model Programs of Study



2013-2014 Transportation, Distribution, and Logistics

Cluster Level  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	101601 Emerging Technologies in Transportation and Logistics -AND- 101620 Transportation Technology Services & Maintenance	

Note: A Program of Study must include a minimum of three semesters.

Pathway Level  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	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	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	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	101930 Manufacturing Welding	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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