

**NCE**  
**Course Codes**  
**and**  
**Clearing Endorsements**  
(Formerly called Appendix D)

**2016-2017**

**June 8, 2016**  
**Nebraska Department of Education**

**GENERAL INFORMATION**

Nebraska approval regulations (Rule 14) and accreditation regulations (Rule 10) require that certain percentages of F.T.E. (Full Time Equivalency) elementary and middle grade teachers hold appropriate endorsements and that certain percentages of instructional units at the secondary grades be assigned to teachers holding appropriate endorsements. For teachers to be considered appropriately endorsed for their assignments, they must teach the grade levels indicated on their certificate. The grade level designations are shown on the following chart.

Certificate/Endorsement Level

<b>LEVEL</b>	<b>Appropriate for the following grades</b>
00	PK
01	Pre Primary – 3 all schools
02	K-6
03	K-8
04	7-9
05	K-9
06	7-12
07	K-12
08	9-12
09	4-9
10	B-12
11	B-K
12	B-3
13	PK-6
14	PK-8
15	PK-12
16	10-12
17	PK-9
18	6-12
19	B-21
20	PK-3
21	B-PK

*The following pages show courses or subjects taught in Nebraska schools and the appropriate endorsements for those subjects or courses. In instances where no specific endorsement is required, the “level” of endorsement must still be appropriate for the assignment.*

The following items describe special cases or circumstances.

Middle Grades:

- 1) When grades four through six are designated as middle grades, either an elementary or a middle grades endorsement is appropriate.
- 2) A middle grades endorsement clears any subject area and course code for grades 4-9.

## COURSE CODES AND CLEARING ENDORSEMENTS

Revised  
June  
2016

- 3) For grades seven and eight, a middle grades endorsement or an appropriate secondary endorsement is appropriate.
- 4) Teachers holding an elementary endorsement may teach in grades seven and eight if they acquire six credit hours per year towards the “Middle Grades” endorsement or if they participate in staff development in accordance with a local mission or plan for education of middle grade students.
- 5) Teachers holding a content area endorsement at the secondary level may teach grade six in that content area if they acquire six credit hours per year toward the elementary or middle grades endorsement or participate in staff development in accordance with a local mission and plan for education of middle grade students.
- 6) When grade nine is designated as a middle grade, an appropriate secondary endorsement or a middle grades endorsement covers a ninth-grade teaching assignment.
- 7) Secondary teachers may be assigned to integrated courses or curriculum in grades seven through nine if they hold an endorsement for any of the subjects or fields included in the course. See 10.007.02A2A
- 8) Teachers not holding an appropriate endorsement may be assigned to the middle grades if they acquire six credit hours per year towards a middle grades endorsement.

**Be advised:** The Middle Grades endorsement is undergoing change. The first change you’ll notice is the name will change from Middle Grades to Middle Level. Teachers that have the current Middle Grades endorsements will continue to clear as they have in the past with grade levels 4-9. Staff hired with the new Middle Level endorsement(s) will cover **grade levels 5-9**. Please make note of this change for new Middle Level teachers available for hire in 2017-2018.

### Secondary Grades:

- 9) In secondary grades, teachers assigned to integrated courses or curriculum are considered appropriately endorsed if they hold an endorsement for any of the subjects or fields included in the course.
- 10) Course descriptions in this manual shown for grades 10, 11, and 12 are intended to describe higher level courses. If, however, the course is taught at a 9<sup>th</sup> grade level, the appropriate middle grades endorsement will cover the assignment.

### Elementary Grades:

- 11) An elementary endorsement is appropriate for courses taught in grades K-8.

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**AGRICULTURE, FOOD AND NATURAL RESOURCES****INTRODUCTION TO AG, FOOD & NATURAL RESOURCES**Short Name**AG/EN-INTR**Course Code**011000**

The introductory course for the Agriculture, Food and Natural Resources Career Cluster providing a knowledge base and technical skills in all aspects of the industry. Learners will be exposed to a broad range of agriculture, food and natural resources careers, cluster foundation knowledge and skills, introduction to leadership development, the FFA organization and career exploration. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Recommended Level: Grades 9-12

Career Cluster: Agriculture, Food, and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

AGRICULTURE

0100

**ANIMAL BIOLOGY**Short Name**ANI BIO**Course Code**011004**

A course focusing on the basic scientific principles and processes that are involved in animal physiology, breeding, nutrition, and care in preparation for an animal systems career. Topics include animal diseases, introduction to animal science, animal nutrition, animal science issues, career opportunities and animal evaluation. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Recommended Level: Grades 9-12

Career Cluster: Agriculture, Food, and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

AGRICULTURE

0100

**LARGE ANIMAL MANAGEMENT**Short Name**LG ANIMGMT**Course Code**011005**

This course includes advanced scientific principles and communication skills that build on the knowledge and skills learned in Animal Biology. Topics include animal waste management, animal science economics, decision making, global concerns in the industry, genetics, and breeding. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Recommended Level: Grades 9-12

Career Cluster: Agriculture, Food, and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

AGRICULTURE

0100

**AGRICULTURE, FOOD AND NATURAL RESOURCES****COMPANION ANIMALS**Short NameCourse Code**COM ANIMAL****011006**

A course providing instruction on animal husbandry topics related to companion animals that are served by a veterinarian. This course includes breeding, grooming, care and marketing of companion animals. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Recommended Level: Grades 9-12

Career Cluster: Agriculture, Food, and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

AGRICULTURE

0100

**PLANT SCIENCE/HORTICULTURE**Short NameCourse Code**PLANT SCI****011007**

This course focuses on knowledge, information, and skills related to the science of plant production and agronomy and provides the necessary skills for careers in horticulture, agricultural production and management, and science. The content includes plant growth and reproduction, biotechnology and research, fertilizers, plant and tree identification, controlling weeds and pests, and proper use of agricultural chemicals. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Recommended Level: Grades 9-12

Career Cluster: Agriculture, Food, and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

AGRICULTURE

0100

HORT EDUC

0905

**AGROMONIC SCIENCE**Short NameCourse Code**AGRO SCI****011008**

This course provides the study of plant physiology and morphology and its relationship to growth, development and reproduction of crop and forage plants in the global environment. Topics include: seed identification, testing and grain grading. Identification of agronomic crops and major weeds in crop production and harvesting and handling will be emphasized. Classroom and laboratory activities are supported through supervised agricultural experiences and leadership programs and experiences.

Recommended Level: Grades 9-12

Career Cluster: Agriculture, Food, and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

AGRICULTURE

0100

<b>AGRICULTURE, FOOD AND NATURAL RESOURCES</b>
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**AGRIBUSINESS**

<u>Short Name</u>	<u>Course Code</u>
<b>AGRI BUSN</b>	<b>011009</b>

This course covers skills necessary for entry into employment or furthering education in an agricultural business. The course includes the study of business organizations, business structures, job responsibilities, job applications and interviewing, human relations, marketing, selling, displaying, using business machines, management and entrepreneurship skills. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Recommended Level: Grades 9-12

Career Cluster: Agriculture, Food, and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100

**ECONOMICS & AGRIBUSINESS MGMT**

<u>Short Name</u>	<u>Course Code</u>
<b>ECON AGMGT</b>	<b>011010</b>

This course builds on the knowledge and skills covered in Agribusiness. Content includes business activities, agribusiness leadership and management in the free enterprise system, economic principals, budgeting, finance, risk management, business law, marketing and careers in agribusiness. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Recommended Level: Grades 9-12

Career Cluster: Agriculture, Food, and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100

**AGRICULTURAL SALES & ENTREPRENEURSHIP**

<u>Short Name</u>	<u>Course Code</u>
<b>AG SA/ENTP</b>	<b>011011</b>

This course builds on the knowledge and skills covered in Agribusiness. Content includes entrepreneurship, business plan development, risk analysis, product/service promotion, and sales/marketing skill development. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Recommended Level: Grades 9-12

Career Cluster: Agriculture, Food, and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100

**AGRICULTURE, FOOD AND NATURAL RESOURCES**

**AGRICULTURAL BIOLOGY**

Short Name  
**AG BIOLOGY**

Course Code  
**011013**

A one year laboratory and lecture biological science course designed for students with career and/or college interests in agriculture. Using agriculture, the course focuses on teaching the Life Science Nebraska State Assessment Standards. The principles central concepts and inter-relationships will include: the molecular and cellular aspects of life, the chemical and structural basis of life, growth and reproduction in plants and animals, evolution of modern plants and domestic livestock species, plant and animal genetics, taxonomy of modern agricultural plants and animals, animal behavior and ecological relationships among plants, animals, humans and the environment. This course is centered on an extensive laboratory component in order to connect the ideas of life science with agricultural applications, earth and physical science principles and other curricular areas including written and oral reporting skills. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and career awareness activities.

Recommended Level: Grades 9-10

Career Cluster: Agriculture, Food and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100
BIOLOGY	1303
SCIENCE	1301

**EQUINE SCIENCE**

Short Name  
**EQUINE SCI**

Course Code  
**011014**

A course focusing on the basic scientific principles and processes related to equine physiology, breeding, nutrition and care in preparation for a career in the equine industry. Skills in biology, chemistry and mathematics are reinforced in this course, Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Recommended Level: Grades 9-12

Career Cluster: Agriculture, Food, and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100

**VETERINARY SCIENCE**

Short Name  
**VET SCI**

Course Code  
**011015**

Introduces students to the basics of animal care. Topics covered include disease, parasites, feeding, shelter, grooming, and general animal care. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Recommended Level: Grades 9-12

Career Cluster: Agriculture, Food, and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100

**AGRICULTURE, FOOD AND NATURAL RESOURCES**

**PLANT BIOLOGY**

Short Name

Course Code

**PLANT BIO**

**011016**

This course covers the biology of plants grown for food, feed, fiber, fuel and fun. Students will learn about plant life cycles in managed and natural ecosystems and their role in global carbon and water cycles. Students will also discover the mechanisms plants use to drive and control their growth, propagate and change to compete with other organisms in their environment.

Recommended Level: Grades 9-12

Career Cluster: Agriculture, Food, and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

AGRICULTURE

0100

**NURSERY AND LANDSCAPE**

Short Name

Course Code

**NURS LAND**

**012001**

Introduces students to the principles of design, methods of establishing and maintaining landscapes, and landscape business management procedures. Includes arranging plants, objects, and earth in the landscape; covers culture and maintenance of plants. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Recommended Level: Grades 9-12

Career Cluster: Agriculture, Food, and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

AGRICULTURE

0100

HORT EDUC

0905

**FLORICULTURE**

Short Name

Course Code

**FLORICUL**

**012002**

Introduces business procedures, design principles, and production techniques used in retail and wholesale floral businesses. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Recommended Level: Grades 10-12

Career Cluster: Agriculture, Food, and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

AGRICULTURE

0100

HORT EDUC

0905

**AGRICULTURE, FOOD AND NATURAL RESOURCES**

**TURF MANAGEMENT**

Short Name

Course Code

**TURF MGT**

**012003**

Introduces procedures to establish, manage, and maintain ornamental or recreational turf, to prepare and maintain athletic fields and playing surfaces and to produce and market turf. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Recommended Level: Grades 9-12

Career Cluster: Agriculture, Food, and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100
HORT EDUC	0905

**BIOTECHNOLOGY**

Short Name

Course Code

**BIOTECH**

**012004**

This course equips students with a working knowledge of biotechnology as it is used in Agricultural, Food, Natural Resources, and Health Sciences. Students will diagram how classical processes have influenced trait improvement throughout history. Through application of DNA structure and gene insertion methods, students will demonstrate how genetic engineering has been applied to organism improvement and solving human health issues. Student will apply DNA and protein detection to determine presence of specific traits. Additionally, students will distinguish between scientific and societal biotechnology issues. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Recommended Level: Grades 9-12

Career Cluster: Agriculture, Food, and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100

**NATURAL RESOURCES**

Short Name

Course Code

**NAT RES**

**013000**

A course that provides an opportunity for students to increase awareness of the close ties among living organisms as well as natural and environmental concerns with the interrelationships of living organisms and the world around us. Students are exposed to careers related to natural resources systems. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Recommended Level: Grades 9-12

Career Cluster: Agriculture, Food, and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100

<b>AGRICULTURE, FOOD AND NATURAL RESOURCES</b>
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<b>WILDLIFE MANAGEMENT</b>	<u>Short Name</u> <b>WDLIFE MGT</b>	<u>Course Code</u> <b>013001</b>
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This course has an emphasis on the conservation of natural resources including outdoor recreation topics and provides students with the opportunity to understand and appreciate the importance of maintaining the land and ecological systems that enable non-domesticated animals to thrive. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Recommended Level: Grades 9-12

Career Cluster: Agriculture, Food, and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100

<b>ADVANCED NATURAL RESOURCES</b>	<u>Short Name</u> <b>ADV NATRES</b>	<u>Course Code</u> <b>013002</b>
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Curriculum emphasizes advanced scientific principles and processes involved in conserving and/or improving natural resources such as air, water, land, forestry, wildlife, and energy. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Recommended Level: Grades 9-12

Career Cluster: Agriculture, Food, and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100

<b>FOOD SCIENCE</b>	<u>Short Name</u> <b>FOOD SCI</b>	<u>Course Code</u> <b>014000</b>
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A course that introduces students to the principles, applications and science of food and food processing and production. Students will learn the scientific principles and practice scientific applications involved in the food industry including food science, food processing, microbiology, toxicology, regulations concerning the protection of the food supply and organic production of food and nutrition. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Recommended Level: Grades 9-12

Career Cluster: Agriculture, Food, and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100

<b>AGRICULTURE, FOOD AND NATURAL RESOURCES</b>
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**ADVANCED FOOD SCIENCE**

<u>Short Name</u>	<u>Course Code</u>
<b>ADFOOD SCI</b>	<b>014001</b>

Students will apply food science principles to enhance product development with particular emphasis on USDA/FDA standards, and nutritional analysis and evaluation of food groups. Students will analyze product preparation options to prepare products for distribution and utilize preservation methods to develop food preservation programs. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Recommended Level: Grades 9-12

Career Cluster: Agriculture, Food and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100

**POWER, STRUCTURAL AND TECHNICAL SYSTEMS  
FUNDAMENTALS**

<u>Short Name</u>	<u>Course Code</u>
<b>PST FUND</b>	<b>016000</b>

This course introduces selected major areas of agricultural mechanics technology including small engine operation and repair, metal fabrication, woodworking, and electrical wiring. Learning activities include basic understanding, skill development and problem-solving. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Recommended Level: Grades 9-12

Career Cluster: Agriculture, Food and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100

**STRUCTURAL SYSTEMS**

<u>Short Name</u>	<u>Course Code</u>
<b>STRUCT SYS</b>	<b>016002</b>

This course provides an in-depth study of agricultural construction. It also provides the opportunity to explore the many career possibilities in the field of agricultural construction. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Recommended Level: Grades 9-12

Career Cluster: Agriculture, Food and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100

**AGRICULTURE, FOOD AND NATURAL RESOURCES**

**POWER AND TECHNOLOGY**

Short Name  
**POWER TECH**

Course Code  
**016003**

Provides advanced-level experiences in selected major areas of agricultural mechanics technology; includes small engine maintenance and repair, metal fabrication, concrete construction, building construction, plumbing, electrical wiring, maintenance of agricultural machinery, equipment and tractors, and soil and water conservation. Learning activities include basic understanding, skill development and problem-solving. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Recommended Level: Grades 9-12

Career Cluster: Agriculture, Food and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100

**WELDING**

Short Name  
**WELDING**

Course Code  
**016004**

This course provides in-depth study of metal and fabrication with metal products. It also provides the opportunity to explore the careers of agricultural metal fabrication. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Recommended Level: Grades 9-12

Career Cluster: Agriculture, Food and Natural Resources.

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100

**METALS AND FABRICATION**

Short Name  
**METAL FAB**

Course Code  
**016005**

This course builds upon skills learned and developed in Welding class. The emphasis of this class is to master advanced welding procedures and processes in conjunction with critical thinking, problem solving, drawing, and technical reading to solve fabrication problems. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Recommended Level: Grades 9-12

Career Cluster: Agriculture, Food and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100

<b>AGRICULTURE, FOOD AND NATURAL RESOURCES</b>
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**LEADERSHIP & ETHICS IN AGRICULTURE**

<u>Short Name</u>	<u>Course Code</u>
<b>LEADER</b>	<b>017000</b>

Instruction provided in a semester long leadership, human resource development and related careers course includes leadership in a community, leadership concepts/applications, characteristics of an effective leader, characteristics of an effective manager and related practicum demonstrating contribution to society. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Recommended Level: Grades 11-12

Career Cluster: Agriculture, Food and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100

**CAREERS AND LITERACY OF AGRICULTURE**

<u>Short Name</u>	<u>Course Code</u>
<b>AG CAR LIT</b>	<b>018002</b>

The focus of this course is to provide middle school students with a working knowledge of the Agriculture, Food, and Natural Resources career field of study. Students will experience the seven AFNR pathways, explore careers within these pathways, and focus on their pathway of interest. The course incorporates teachable moments pertaining to the college and career readiness skills found in the center of the Nebraska Career Education Model. Agricultural literacy, risk management, and current trends are also incorporated into the course.

Recommended Level: Middle/Junior High

Career Cluster: Foundation, Career Development and Career Education Introductory Courses

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100
MIDDLE GR/AG EDUCATION	1810

**ENVIRONMENTAL SCIENCE**

<u>Short Name</u>	<u>Course Code</u>
<b>ENV SCI</b>	<b>018049</b>

A course designed to immerse students in the physical, biological and earth systems science that shape our environment in order to allow students to analyze environmental issues and make management decisions. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Recommended Level: Grades 9-12

Career Cluster: Agriculture, Food and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100
BIOLOGY	1303
SCIENCE	1301

<b>COURSE CODES AND CLEARING ENDORSEMENTS</b>	<b>Page 11</b>	<b>Revised June 2016</b>
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<b>AGRICULTURE, FOOD AND NATURAL RESOURCES</b>
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**ADVANCED PLACEMENT ENVIRONMENTAL SCIENCE**

Short Name

Course Code

**AP ENV SCI**

**018050**

The AP Environmental Science course is designed to be the equivalent of a one semester, introductory college course in environmental science. Unlike most other introductory-level college science courses, environmental science is offered from a wide variety of departments, including geology, biology, environmental studies, environmental science, chemistry and geography.

This course is governed by the AP College Board. Individual teachers are required to have approval of syllabus and course materials by the College Board prior to offering the course. Topics are defined by the College Board located on their website: [www.collegeboard.com](http://www.collegeboard.com)

Career Cluster: Agriculture, Food and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100
BIOLOGY	1303
SCIENCE	1301

**CASE INTRODUCTION TO AGRICULTURE, FOOD & NATURAL  
RESOURCES**

Short Name

Course Code

**CASE AFNR**

**018060**

Students participating in the Introduction to Agriculture, Food, and Natural Resources course will experience exciting "hands-on" activities, projects, and problems. Student experiences will involve the study of communication, the science of agriculture, plants, animals, natural resources, and agricultural mechanics. While surveying the opportunities available in agriculture and natural resources, students will learn to solve problems, conduct research, analyze data, work in teams, and take responsibility for their work, actions, and learning. For example, students will work in groups to determine the efficiency and environmental impacts of fuel sources in a practical learning exercise.

Other Info: This course can only be taught by CASE certified teachers following the CASE curriculum.

Recommended Level: Grades 9-10

Career Cluster: Agriculture, Food, and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100

**CASE PLANT SCIENCE**

Short Name

Course Code

**CASE PLANT**

**018061**

The course is structured to enable all students to have a variety of experiences that will provide an overview of the field of agricultural science with a foundation in plant science so that students may continue through a sequence of courses through high school. Students will work in teams, exploring hands-on projects and activities, to learn the characteristics of plant science and work on major projects and problems similar to those that plant science specialists, such as horticulturalists, agronomists, greenhouse and nursery managers and producers, and plant research specialists face in their respective careers.

Other Info: This course can only be taught by CASE certified teachers following the CASE curriculum.

Recommended Level: Grades 9-12

Career Cluster: Agriculture, Food, and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100

<b>AGRICULTURE, FOOD AND NATURAL RESOURCES</b>
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**CASE ANIMAL SCIENCE**

<u>Short Name</u>	<u>Course Code</u>
<b>CASE ANML</b>	<b>018062</b>

This course is intended to serve as one of two foundational courses within the CASE™ sequence. The course is structured to enable all students to have a variety of experiences that will provide an overview of the field of agricultural science with a foundation in animal science so that students may continue through a sequence of courses through high school. Students will explore hands-on projects and activities to learn the characteristics of animal science and work on major projects and problems similar to those that animal science specialists, such as veterinarians, zoologists, livestock producers, or industry personnel face in their respective careers.

Other Info: This course can only be taught by CASE certified teachers following the CASE curriculum.

Recommended Level: Grades 9-12  
 Career Cluster: Agriculture, Food, and Natural Resources

***Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:***

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100

**CASE ANIMAL & PLANT BIOTECHNOLOGY**

<u>Short Name</u>	<u>Course Code</u>
<b>CASE APBIO</b>	<b>018063</b>

Animal and Plant Biotechnology, a specialization course in the CASE Program of Study, provides resources to the teacher to facilitate rigorous instruction and increase the level of student understanding related to biotechnology concepts. Students will complete hands-on activities, projects, and problems designed to build content knowledge and technical skills in the field of biotechnology. Students are expected to become proficient at projects involving micro pipetting, bacterial cultures and transformations, electrophoresis, and polymerase chain reaction. Research and experimental design will be highlighted as students develop and conduct industry appropriate investigations.

Other Info: This course can only be taught by CASE certified teachers following the CASE curriculum.

Recommended Level: Grades 9-12  
 Career Cluster: Agriculture, Food, and Natural Resources

***Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:***

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100

**FNS - FOOD PRODUCTION, NUTRITION, AND HEALTH**

<u>Short Name</u>	<u>Course Code</u>
<b>FOOD PROD</b>	<b>018080</b>

This is a project-based foundational course to introduce students to the size and scope of food production, nutrition, and health, and the underlying principles. Students will define the food science industry, describe historical milestones, and analyze how the production, processing, distribution, and marketing of food and food products influence consumer behavior and health. Students will apply knowledge about food products, nutrients, and the chemical and physical properties of food to solve human nutrition and health problems. Upon completion of this course, students are prepared to enroll in either Food Science or Nutrition Science courses within this program of study in preparation for careers in those areas.

Other Info: This course can only be taught by teachers who have completed the FNS training following the FNS curriculum.

Recommended Level: Grades 9-12  
 Career Cluster: Agriculture, Food, and Natural Resources

***Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:***

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100
FAMLY/CONSMR SCIENCE	0903

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<b>AGRICULTURE, FOOD AND NATURAL RESOURCES</b>
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**FNS - FOOD SCIENCE**

Short Name

Course Code

**FOOD SCI**

**018081**

This is a project-based course focusing on preparing students for further education and careers in the Food Science industry. Students will investigate the production, processing, distribution, and marketing of food to consumers. Students will apply the science associated with food and food products to the selection, preservation, processing, packaging, and distribution of safe and nutritious food. Students will explain the impacts of food on human health and nutrition.

Other Info: This course can only be taught by teachers who have completed the FNS training following the FNS curriculum.

Recommended Level: Grades 9-12

Career Cluster: Agriculture, Food, and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100
FAMLY/CONSMR SCIENCE	0903

**FNS - NUTRITION SCIENCE**

Short Name

Course Code

**NUTRI SCI**

**018082**

This is a project-based course focusing on preparing students for further education and careers in the Nutrition Science industry. Students will understand the relationship between the body, nutrients, and health. Students will apply these understandings and the socioeconomic, cultural, and community influences on diet to develop dietary plans for a variety of lifestyles and human health concerns.

Other Info: This course can only be taught by teachers who have completed the FNS training following the FNS curriculum.

Recommended Level: Grades 9-12

Career Cluster: Agriculture, Food, and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100
FAMLY/CONSMR SCIENCE	0903

**FNS - FOOD AND NUTRITION SCIENCE RESEARCH AND  
DEVELOPMENT**

Short Name

Course Code

**FOOD NUTR**

**018083**

This course will be the culminating experience within the Food and Nutrition Sciences Program of Study. Through the application of knowledge and skills gained earlier in the program of study, students will explore all aspects of new food product development, from research and development to marketing. They will consider the nutritional needs of consumers, and possibilities for production, processing, distribution, and marketing of food to develop food products suitable for a variety of scenarios.

Other Info: This course can only be taught by teachers who have completed the FNS training following the FNS curriculum.

Recommended Level: Grades 9-12

Career Cluster: Agriculture, Food, and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100
FAMLY/CONSMR SCIENCE	0903

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<b>AGRICULTURE, FOOD AND NATURAL RESOURCES</b>
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**AGRICULTURE, FOOD AND NATURAL RESOURCES, OTHER**

Short Name

Course Code

**AGRI OTHER**

**019930**

Programs or courses not listed or classified. This code may be used for such courses as: Independent Study, Aquaculture, International Agriculture. Please note courses coded in this area do not count toward an approved Nebraska Career Education Program of Study.

Recommended Level: Grades 7-12

Career Cluster: Agriculture, Food and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100
HORT EDUC	0905
MIDDLE GR/AG EDUCATION	1810

**AGRICULTURE, FOOD AND NATURAL RESOURCES, OTHER**

Short Name

Course Code

**AGRI OTHER**

**019931**

Programs or courses not listed or classified. This code may be used for such courses as: Independent Study, Aquaculture, International Agriculture. Please note courses coded in this area do not count toward an approved Nebraska Career Education Program of Study.

Recommended Level: Grades 7-12

Career Cluster: Agriculture, Food and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100
HORT EDUC	0905
MIDDLE GR/AG EDUCATION	1810

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**AGRICULTURE, FOOD AND NATURAL RESOURCES**

**AGRICULTURE, FOOD AND NATURAL RESOURCES, OTHER**

Short Name

Course Code

**AGRI OTHER**

**019932**

Programs or courses not listed or classified. This code may be used for such courses as: Independent Study, Aquaculture, International Agriculture. Please note courses coded in this area do not count toward an approved Nebraska Career Education Program of Study.

Recommended Level: Grades 7-12

Career Cluster: Agriculture, Food and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100
HORT EDUC	0905
MIDDLE GR/AG EDUCATION	1810

**AGRICULTURE, FOOD AND NATURAL RESOURCES, OTHER**

Short Name

Course Code

**AGRI OTHER**

**019933**

Programs or courses not listed or classified. This code may be used for such courses as: Independent Study, Aquaculture, International Agriculture. Please note courses coded in this area do not count toward an approved Nebraska Career Education Program of Study.

Recommended Level: Grades 7-12

Career Cluster: Agriculture, Food and Natural Resources

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100
HORT EDUC	0905
MIDDLE GR/AG EDUCATION	1810

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<b>AGRICULTURE, FOOD AND NATURAL RESOURCES</b>
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**AGRICULTURE, FOOD AND NATURAL RESOURCES, OTHER**

Short Name

Course Code

**AGRI OTHER**

**019934**

Programs or courses not listed or classified. This code may be used for such courses as: Independent Study, Aquaculture, International Agriculture. Please note courses coded in this area do not count toward an approved Nebraska Career Education Program of Study.

Recommended Level: Grades 7-12

Career Cluster: Agriculture, Food and Natural Resources

*Clearing Endorsement - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100
HORT EDUC	0905
MIDDLE GR/AG EDUCATION	1810

<b>COURSE CODES AND CLEARING ENDORSEMENTS</b>	<b>Page 17</b>	<b>Revised June 2016</b>
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<b>BUSINESS, MARKETING AND MANAGEMENT</b>
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**ACCOUNTING**

Short Name

Course Code

**ACCT**

**030300**

This two-semester course covers sole proprietorship accounting principles involved in the preparation and maintenance of financial records concerned with business management and operations. It is a comprehensive introduction to basic accounting including recording, summarizing and reporting, principles of income measurement and asset valuation, accounting systems and controls. Students are exposed to careers in the accounting field and are given the opportunity to perform accounting applications using the computer. An introduction to partnerships and corporations may be included.

Recommended Level: Grades 10-12

Career Cluster: Finance

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304

**ACCOUNTING, ADVANCED**

Short Name

Course Code

**ACCT AD**

**030301**

This is a two-semester course that includes partnership and corporate accounting, adjustment in inventory control systems, budgetary control systems and further enhancement of accounting skills. Accounting is a prerequisite.

Recommended Level: Grades 11-12

Career Cluster: Finance

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304

**COLLEGE PRINCIPLES OF ACCOUNTING**

Short Name

Course Code

**PRIN ACCT**

**030302**

This two-semester course is designed to provide introductory knowledge of accounting principles, concepts, and practices. Included topics are the balance sheet, the income statement, the statement of owner's equity, the statement of cash flows, worksheets, journals, ledgers, accruals, adjusting and closing entries, internal controls, inventories, fixed and intangible assets, liabilities, equity and financial statement analysis. This course provides a foundation for more advanced work in the fields of accounting and business. This course may be available for dual credit at a postsecondary institution.

Recommended Level: Grades 11-12

Career Cluster: Finance

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304

**BUSINESS, MARKETING AND MANAGEMENT****COLLEGE PRINCIPLES OF ACCOUNTING II**Short NameCourse Code**PRINACCTII****030303**

This course is a continuation of ACCT 1200 and is part of a Finance Academy. Principles of Accounting II includes accounting for businesses organized as corporations, cash flow statements, accounting for manufacturing businesses, preparing and using accounting data for management decision making, and analyzing and interpreting financial statements. This course may be available for dual credit at a postsecondary institution.

Recommended Level: Grades 11-12

Career Cluster: Finance

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304

**BUSINESS COMMUNICATION**Short NameCourse Code**BUSNS COMM****030600**

Students will reinforce communication skills needed in business, management and administrative occupations by composing and reading written and digital communications, developing and delivering formal and informal presentations, applying active listening skills to obtain and clarify information, and exhibiting interpersonal skills to deal positively with diverse individuals. Students will use tables, charts, and figures to support written and oral communication, and locate, organize, and reference written information from various sources to communicate effectively. This course may be available for dual credit at a postsecondary institution.

Recommended Level: Grades 9-12

Career Cluster: Business Management and Administration

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304

**FINANCIAL PLANNING**Short NameCourse Code**FIN PLAN****030801**

This course is part of the National Academy Foundation's Academy of Finance. Financial Planning provides students with an overview of the job of a financial planner. Students look at financial planning in an objective way that requires them to regard all aspects of financial planning as relevant to a potential client.

Recommended Level: Grades 11-12

Career Cluster: Business Management and Administration

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304

**BUSINESS, MARKETING AND MANAGEMENT****INSURANCE**Short NameCourse Code**INSUR****030802**

This course is part of the National Academy Foundation's Academy of Finance. This course introduces students to the insurance industry and to its critical role in the financial services sector and to society. It covers common types of insurance, including life, health and disability, property, liability, and forms of commercial insurance, and career opportunities.

Recommended Level: Grades 11-12

Career Cluster: Business Management and Administration

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

BASIC BUSINESS

0301

BUSINESS, MARKETING, INFO TECH

0304

**FINANCIAL SERVICES**Short NameCourse Code**FIN SERV****030803**

This course is part of the National Academy Foundation's Academy of Finance. Financial Services provides students with an overview of financial services companies. This course introduces student to banking, monetary policy, investing, and financial careers. Students examine current issues including ethics in the financial services industry.

Recommended Level: Grades 11-12

Career Cluster: Business Management and Administration

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

BASIC BUSINESS

0301

BUSINESS, MARKETING, INFO TECH

0304

**COLLEGE FUNDAMENTALS OF FINANCIAL PLANNING**Short NameCourse Code**COL FIN PL****030804**

This course is a college course that is part of a Finance Academy. This course is the first of two courses examining the fundamentals of financial planning. Students will examine the principles of financial planning, steps in the financial planning process, tools and techniques used in the planning process, and explore careers associated with financial planning. This course may be available for dual credit at the postsecondary institution.

Recommended Level: Grades 11-12

Career Cluster: Finance

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

BASIC BUSINESS

0301

BUSINESS, MARKETING, INFO TECH

0304

<b>BUSINESS, MARKETING AND MANAGEMENT</b>
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**BUSINESS LAW**

Short Name

Course Code

**BUSNS LAW**

**030900**

A course designed to present the study of the legal rights and responsibilities necessary to be informed and productive citizens. Key concepts include contracts and torts, the role of courts, litigation and constitutional issues including civil and criminal law.

Recommended Level: Grades 10-12

Career Cluster: Business Management and Administration

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304

**COLLEGE BUSINESS LAW**

Short Name

Course Code

**COL BUSLAW**

**030901**

This course is a college course that is part of a Finance Academy. This course offers an introduction to ordinary legal aspects of business transactions involving such topics as legal rights and duties, law of contracts, law of sales, and law of property. It gives a general understanding and development of basic legal logic in business situations through the use of principles, cases, and information useful in determining the need for professional counsel. This course may be available for dual credit at a postsecondary institution.

Recommended Level: Grades 11-12

Career Cluster: Business Management and Administration

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304

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<b>BUSINESS, MARKETING AND MANAGEMENT</b>
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<b>BUSINESS ECONOMICS</b>	<u>Short Name</u> <b>BUSNS ECON</b>	<u>Course Code</u> <b>031800</b>
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Business Economics is a course designed to help students make decisions and understand economic principles as applied to current events and issues. Emphasis includes allocation of resources, economic systems, economic institutions and incentives, markets and prices, market structures, productivity, role of government, global economic concepts, and economic indicators.

Recommended Level: Grades 11-12

Career Cluster: Finance

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304
ECONOMICS	1503
SOCIAL SCIENCE	1501

<b>BUSINESS STRATEGIES</b>	<u>Short Name</u> <b>BUSNSTRAT</b>	<u>Course Code</u> <b>031805</b>
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This course is part of the MBA Research Consortium's High School of Business National Model. Business strategies develop student understanding of skills in such areas as business law, entrepreneurship, financial analysis, human resources management, and strategic management. By planning, organizing, staffing, directing, leading, and controlling business activities, students acquire a realistic understanding of what is required to open and successfully run a business. They conduct situational, market, and competitive analyses; select a target market; develop a business plan; recruit, interview, select, and hire staff; supervise staff; control use of resources; and evaluate the results of the business effort. Throughout the course, students make decisions and use problem-solving skills. Formal reflection is an on-going component of the course.

Recommended Level: Grades 11-12

Career Cluster: Business Management and Administration

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304

<b>BUSINESS, MARKETING AND MANAGEMENT</b>
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<b>INTRODUCTION TO BUSINESS, MARKETING &amp; MGMT</b>	<u>Short Name</u> <b>INTROBUSNS</b>	<u>Course Code</u> <b>032300</b>
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This course is designed as an introductory overview of the Business, Marketing and Management Career Field. Units of study include economic systems, forms of business ownership, management, marketing, and accounting. Career opportunities will also be explored.

Recommended Level: Grades 9-12

Career Cluster: Business Management and Administration

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304

<b>EXPLORATION OF BUSINESS AND ENTREPRENEURSHIP</b>	<u>Short Name</u> <b>EXPBUS ENT</b>	<u>Course Code</u> <b>032350</b>
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A middle-level course designed to give students an overview of Business, Marketing and Management Career Field and Clusters with an emphasis on entrepreneurship. Students will begin the study of personal money management, basic business concepts, entrepreneurship concepts, the role of business in our society and be introduced to entrepreneurship as a career option.

Recommended Level: Middle/Junior High

Career Cluster: Foundation, Career Development and Career Education Introductory Courses

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304

<b>ENTREPRENEURSHIP</b>	<u>Short Name</u> <b>ENTREP</b>	<u>Course Code</u> <b>032370</b>
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Entrepreneurship is a course designed for students with a career interest in entrepreneurship. Emphasis is placed on the evaluation of the business skills and commitment necessary to successfully operate an entrepreneurial venture and review the challenges and rewards of entrepreneurship. The role of entrepreneurial businesses in the United States and the impact on the national and global economy will be explored. Instructional strategies include the development of a business plan, operation of a school-based business, or actual creation of a student-run business.

Recommended Level: Grades 9-12

Career Cluster: Business Management and Administration

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304

**BUSINESS, MARKETING AND MANAGEMENT**

**COLLEGE INTRODUCTION TO BUSINESS**

Short Name

Course Code

**COLINT BSN**

**032400**

This college-level course surveys the structure and functions of the American business system in a global society, together with an overview of business organization, economics, management, marketing, and finance. This course may be available for dual credit at a postsecondary institution.

Recommended Level: Grades 11-12

Career Cluster: Business Management and Administration

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304

**COLLEGE INTRODUCTION TO ENTREPRENEURSHIP**

Short Name

Course Code

**COL ENTREP**

**032600**

College Introduction to Entrepreneurship is a course designed for students with a career interest in entrepreneurship. Emphasis is placed on the evaluation of the business skills and commitment necessary to successfully operate an entrepreneurial venture and review the challenges and rewards of entrepreneurship. The role of entrepreneurial businesses in the United States and the impact on the national and global economy will be explored. Instructional strategies include the development of a business plan, operation of a school-based business, or actual creation of a student-run business. This course may be available for dual credit at a postsecondary institution.

Recommended Level: Grades 11-12

Career Cluster: Business Management and Administration

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304

**COLLEGE ENTREPRENEURSHIP FEASIBILITY STUDY**

Short Name

Course Code

**COL ENTFEA**

**032601**

College Entrepreneurship Feasibility Study is a course in which students will assess the viability of a new venture business idea to determine if the concept is feasible. The student will identify and analyze the present climate for their business idea by completing an industry, target market, and competitive analysis. The student will assess the financial needs for startup as well as their own skills, strengths, and talents to launch a successful business idea. This course may be available for dual credit at a postsecondary institution.

Recommended Level: Grades 11-12

Career Cluster: Business Management and Administration

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304

**BUSINESS, MARKETING AND MANAGEMENT**

**COLLEGE ENTREPRENEURSHIP LEGAL ISSUES**

Short Name  
**COLENT LGL**

Course Code  
**032602**

College Entrepreneurship Legal Issues explores legal issues related to business entities including sole proprietorship, general partnerships, limited partnerships, and corporations. Students will review contract law, articles of incorporations and the filing process, intellectual property, employment law (including FERPA, ADA, and FMLA), personnel policies and procedures, the hiring process, job descriptions, disciplinary actions, and business insurance. This course may be available for dual credit at a postsecondary institution.

Recommended Level: Grades 11-12

Career Cluster: Business Management and Administration

***Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:***

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304

**COLLEGE MARKETING FOR THE ENTREPRENEUR**

Short Name  
**COL MKENT**

Course Code  
**032603**

College Marketing for the Entrepreneur will provide insights essential for marketing an entrepreneurial venture utilizing innovative and financially responsible marketing strategies. Students will develop an understanding of traditional and non-traditional entrepreneurial marketing strategies and prepare marketing strategies with associated tactics to launch and sustain an entrepreneurial venture. This course may be available for dual credit at a postsecondary institution.

Recommended Level: Grades 11-12

Career Cluster: Business Management and Administration

***Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:***

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304

**COLLEGE ENTREPRENEURSHIP FINANCIAL TOPICS**

Short Name  
**COL ENTFIN**

Course Code  
**032604**

This course will cover financial topics for small business. Financial topics include budgeting, creation of financial statements and learning how to work with an accounting professional. Other topics covered are income tax, sales and use tax, unemployment tax, employee benefits and retirement planning. This course may be available for dual credit at a postsecondary institution.

Recommended Level: Grades 11-12

Career Cluster: Business Management and Administration

***Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:***

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304

**BUSINESS, MARKETING AND MANAGEMENT****COLLEGE ENTREPRENEURSHIP BUSINESS PLAN****Short Name  
COL ENTBPL****Course Code  
032605**

The student will evaluate a business concept and create a business plan. Students will assess the strengths and weaknesses of a business concept, apply research data into the plans, and prepare the financial projections for the business concept. Students will identify and evaluate various resources available for funding small businesses. This course may be available for dual credit at a postsecondary institution.

Recommended Level: Grades 11-12

Career Cluster: Business Management and Administration

***Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:***

<b>Endorsement Name</b>	<b>Endorsement Number</b>
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304

**MANAGEMENT AND LEADERSHIP****Short Name  
MGT/LEAD****Course Code  
032802**

This course emphasizes the basic concepts of management and leadership within a business or organization. It addresses characteristics, organization, and operation of business as major sectors of the economy. Students will investigate management issues involved in planning, organizing, leading, and controlling an organization. They will also acquire essential skills in the areas of emotional intelligence: time management, stress management, professional growth and development, communication, and relationship skills.

Recommended Level: Grades 10-12

Career Cluster: Business Management and Administration

***Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:***

<b>Endorsement Name</b>	<b>Endorsement Number</b>
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304

**COLLEGE PRINCIPLES OF MANAGEMENT****Short Name  
COL MGT****Course Code  
032803**

This course is a college course that is part of a Finance Academy. This is an introduction to the theory and practice of management of the organization. Special attention is devoted to the processes of planning, decision making, organizing, leading, and controlling the organization. This course may be available for dual credit at a postsecondary institution.

Recommended Level: Grades 11-12

Career Cluster: Business Management and Administration

***Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:***

<b>Endorsement Name</b>	<b>Endorsement Number</b>
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304

<b>BUSINESS, MARKETING AND MANAGEMENT</b>
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**PERSONAL FINANCE**

Short Name

Course Code

**PERSON FIN**

**033000**

The goal of personal finance is to help students become financially responsible, conscientious members of society. This course develops student understanding and skills in money management; budgeting; financial goal attainment; use of credit; insurance; investments; and consumer rights and responsibilities. Application of academic concepts, technology, and career planning are integrated throughout the curriculum.

Recommended Level: Grades 11-12

Career Cluster: Finance

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304
ECONOMICS	1503

**PRINCIPLES OF FINANCE**

Short Name

Course Code

**PRIN FIN**

**033001**

This course is part of the MBA Research Consortium's High School of Business National Model. Principles of Finance furthers student understanding of two specific business activities - accounting and finance. Students acquire an understanding of financial statements, calculate financial ratios, and make corporate financial management decisions based on their analysis of that financial data.

Recommended Level: Grades 11-12

Career Cluster: Business Management and Administration

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304
ECONOMICS	1503

<b>BUSINESS, MARKETING AND MANAGEMENT</b>
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<b>COLLEGE WEALTH BUILDING &amp; FINANCIAL MANAGEMENT</b>	<u>Short Name</u> <b>COL WEALTH</b>	<u>Course Code</u> <b>033002</b>
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This course is designed to provide knowledge of personal financial management. Students learn to manage their resources to make sound personal financial decisions, interpret data to develop short and long term budgetary plans, and develop product knowledge related to financial planning. Students will develop a financial plan that includes savings, investing, credit management, risk management, and retirement. This course may be available for dual credit at a postsecondary institution.

Recommended Level: Grades 11-12

Career Cluster: Finance

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304
ECONOMICS	1503

<b>COLLEGE INTERNATIONAL FINANCE</b>	<u>Short Name</u> <b>COL INTFIN</b>	<u>Course Code</u> <b>033003</b>
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This course is a college course that is part of a Finance Academy. This course offers an introduction to an analysis of international finance providing a conceptual framework within which the unique financial decisions of the multinational firm can be analyzed. The student gains an understanding of decision elements of the international organization such as divergences in currencies, exchange rate issues (variations and controls), rates of inflation, tax systems, money and capital markets, and political systems. This course may be available for dual credit a postsecondary institution.

Recommended Level: Grades 11-12

Career Cluster: Finance

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BUSINESS, MARKETING, INFO TECH	0304
ECONOMICS	1503

<b>COLLEGE INTRODUCTION TO INVESTMENT</b>	<u>Short Name</u> <b>COL INVEST</b>	<u>Course Code</u> <b>033004</b>
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This course is a college course that is part of a Finance Academy. This course presents an introductory review of investment concepts and theory including analysis of individual investments, stocks, bonds, mutual funds, security markets, and portfolio management. This course may be available for dual credit a postsecondary institution.

Recommended Level: Grades 11-12

Career Cluster: Finance

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BUSINESS, MARKETING, INFO TECH	0304
ECONOMICS	1503

<b>BUSINESS, MARKETING AND MANAGEMENT</b>
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**COMPUTER APPLICATIONS**

<u>Short Name</u>	<u>Course Code</u>
<b>COMP APP</b>	<b>033422</b>

This middle-level course is designed to emphasize digital citizenship, basic computer operations, word processing applications, spreadsheet applications, presentation applications, and technology communication tools. Students will master keyboarding skills; compose, create, edit, and format word processing documents; organize and manipulate data in a spreadsheet; and prepare a formal presentation for Computer Applications to count toward a Program of Study the course must be offered for one semester at the 8th grade level.

Recommended Level: Middle/Junior High

Career Cluster: Business Management and Administration

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304
INFORMATION TECHNOLOGY	2701
MIDDLE GR/BUSINESS ED	1812

**KEYBOARDING APPLICATIONS**

<u>Short Name</u>	<u>Course Code</u>
<b>KEYBD APP</b>	<b>033501</b>

Keyboarding is identified as a foundation knowledge and skill area for all students regardless of their career interest. This middle-level course is designed for students to learn touch typing techniques and proper keystroking while continuing to develop composition and proofreading skills as well as speed and accuracy. Students will demonstrate keyboarding proficiency in document formatting (letters, reports, and tables). Students will demonstrate acceptable ethical and social behavior while developing keyboarding skills. .

Recommended Level: Middle/Junior High

Career Cluster: Foundation, Career Development and Career Education Introductory Courses

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304
INFORMATION TECHNOLOGY	2701
MIDDLE GR/BUSINESS ED	1812

**BUSINESS, MARKETING AND MANAGEMENT****BUSINESS IN A GLOBAL ECONOMY****Short Name  
GLOBL ECON****Course Code  
034100**

This course is part of the National Academy Foundation's Academy of Finance, Business in a Global Economy provides students with an understanding of how and why businesses choose to expand their operations into other countries. This course exposes students to the unique challenges facing firms doing business internationally and to the potential opportunities and markets that are lost to firms that choose not to do business in the global marketplace.

Recommended Level: Grades 11-12

Career Cluster: Business Management and Administration

***Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:***

<b>Endorsement Name</b>	<b>Endorsement Number</b>
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304

**MARKETING****Short Name  
MARKET****Course Code  
038100**

Students will explore the basic functions of marketing: pricing, promotion, product planning, and place/distribution: the marketing mix. The curriculum provides the foundational skills and knowledge in economics, communications skills/interpersonal skills, professional career development, business, management, and entrepreneurship. Application of academic concepts and technology are integrated throughout the curriculum.

Recommended Level: Grades 10-12

Career Cluster: Marketing

***Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:***

<b>Endorsement Name</b>	<b>Endorsement Number</b>
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304

**MARKETING MANAGEMENT****Short Name  
MARK MGT****Course Code  
038101**

This course develops student understanding and skills promotion, channel management, marketing information management, market planning, pricing, and product/service management. The curriculum utilizes communication, team building, and problem-solving skills while applying academic and critical-thinking strategies. Application of academic concepts and technology are integrated throughout the curriculum enhancing career and professional development.

Recommended Level: Grades 10-12

Career Cluster: Marketing

***Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:***

<b>Endorsement Name</b>	<b>Endorsement Number</b>
BUSINESS, MARKETING, INFO TECH	0304

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<b>BUSINESS, MARKETING AND MANAGEMENT</b>
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**ADVANCED MARKETING**

Short Name

Course Code

**ADV MKTG**

**038200**

The course will emphasize entrepreneurial development and responsive marketing strategies that meet customer needs. The course focuses on marketing concepts and the role of marketing in the organization and society. Topics include market segmentation, product development, promotion, distribution, and pricing. Additional topics include external environment, economics, politics, government, market research, international marketing, cultural diversity, ethics, technology, and careers in marketing. Capstone activities include development of a marketing or business plan.

Recommended Level: Grades 11-12

Career Cluster: Marketing

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

BUSINESS, MARKETING, INFO TECH

0304

**COLLEGE PRINCIPLES OF MARKETING**

Short Name

Course Code

**COL MKTG**

**038201**

The course is an introduction to the language and issues of marketing with an emphasis on learning to develop responsive marketing strategies that meet customer needs. The course focuses on marketing concepts and the role of marketing in the organization and society. Topics include market segmentation, product development, promotion, distribution, and pricing. Additional topics include external environment, economics, politics, government, marketing research, international marketing, cultural diversity, ethics, technology, and careers in marketing. This course may be available for dual credit at a postsecondary institution.

Recommended Level: Grades 11-12

Career Cluster: Marketing

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

BUSINESS, MARKETING, INFO TECH

0304

**ADVANCED PLACEMENT MACROECONOMICS**

Short Name

Course Code

**AP MACECON**

**038500**

This course is governed by the AP College Board. Individual teachers are required to have approval of syllabus and course materials by the College Board prior to offering the course. The purpose of an AP course in macroeconomics is to give students a thorough understanding of the principles of economics that apply to an economic system as a whole. This course places particular emphasis on the study of national income and price-level determination and also develops students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. This course may be available for dual credit at a postsecondary institution.

Recommended Level: Grades 11-12

Career Cluster: Finance

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

BASIC BUSINESS

0301

BUSINESS, MARKETING, INFO TECH

0304

ECONOMICS

1503

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<b>BUSINESS, MARKETING AND MANAGEMENT</b>
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**ADVANCED PLACEMENT MICROECONOMICS**

Short Name

Course Code

**AP MICECON**

**038501**

This course is governed by the AP College Board. Individual teachers are required to have approval of syllabus and course materials by the College Board prior to offering the course. The purpose of an AP course in microeconomics is to give students a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the economic system. This course places primary emphasis on the nature and functions of product markets and includes the study of factor markets and the role of government in promoting greater efficiency and equity in the economy. This course may be available for dual credit at a postsecondary institution.

Recommended Level: Grades 11-12

Career Cluster: Finance

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304
ECONOMICS	1503

**COLLEGE MACROECONOMICS**

Short Name

Course Code

**CMACROEC**

**038502**

This is a course designed to help students explore theories of employment, Gross Domestic Product, inflation and economic growth. Topics include income theories, savings and investments, business fluctuations, inflation, growth theories and monetary and fiscal policies. This course may be available for dual credit at a postsecondary institution.

Recommended Level: Grades 11-12

Career Cluster: Finance

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304
ECONOMICS	1503

<b>BUSINESS, MARKETING AND MANAGEMENT</b>
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**COLLEGE MICROECONOMICS**

<u>Short Name</u>	<u>Course Code</u>
<b>CMICROEC</b>	<b>038503</b>

This course presents the theory and application of the four market structures: pure competition, monopolistic competition, oligopoly and monopoly. Students determine the revenue, costs, output and prices for each market structure along with the social implications of each. In addition, the course analyzes various social issues using the microeconomic principles of elasticity, benefit and cost, and diminishing returns analysis. This course may be available for dual credit at a postsecondary institution.

Recommended Level: Grades 11-12

Career Cluster: Finance

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304
ECONOMICS	1503

**BUSINESS, MARKETING AND MANAGEMENT, OTHER**

<u>Short Name</u>	<u>Course Code</u>
<b>BUSNS OTH</b>	<b>039930</b>

Courses not otherwise listed. Using codes 039930 through 039934 means you can add five "other" courses by using one code for each one of the five courses. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Business Management and Administrator

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BUSINESS, MARKETING, INFO TECH	0304

**BUSINESS, MARKETING AND MANAGEMENT, OTHER**

<u>Short Name</u>	<u>Course Code</u>
<b>BUSNS OTH</b>	<b>039931</b>

Courses not otherwise listed. Using codes 039930 through 039934 means you can add five "other" courses by using one code for each one of the five courses. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Business Management and Administrator

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BUSINESS, MARKETING, INFO TECH	0304

<b>BUSINESS, MARKETING AND MANAGEMENT</b>
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<b>BUSINESS, MARKETING AND MANAGEMENT, OTHER</b>	<u>Short Name</u> <b>BUSNS OTH</b>	<u>Course Code</u> <b>039932</b>
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Courses not otherwise listed. Using codes 039930 through 039934 means you can add five "other" courses by using one code for each one of the five courses. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Business Management and Administrator

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BUSINESS, MARKETING, INFO TECH	0304

<b>BUSINESS, MARKETING AND MANAGEMENT, OTHER</b>	<u>Short Name</u> <b>BUSNS OTH</b>	<u>Course Code</u> <b>039933</b>
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Courses not otherwise listed. Using codes 039930 through 039934 means you can add five "other" courses by using one code for each one of the five courses. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Business Management and Administrator

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BUSINESS, MARKETING, INFO TECH	0304

<b>BUSINESS, MARKETING AND MANAGEMENT, OTHER</b>	<u>Short Name</u> <b>BUSNS OTH</b>	<u>Course Code</u> <b>039934</b>
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Courses not otherwise listed. Using codes 039930 through 039934 means you can add five "other" courses by using one code for each one of the five courses. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Business Management and Administrator

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BUSINESS, MARKETING, INFO TECH	0304

**CAREER EDUCATION FOUNDATIONAL AND SPECIALTY**

**MIDDLE SCHOOL CAREER DEVELOPMENT**

Short Name  
**MS CAREER**

Course Code  
**320100**

Students learn how to effectively explore careers while using the Nebraska Career Education Model and related resources. Students will learn the vocabulary and expectations of effective academic and career planning. A focus will be to discover the relationship between personal-social qualities, interests and skills to a wide variety of careers and postsecondary options to choose from. Emphasis will be given to learn and opportunities to practice the Nebraska Career Readiness Standards of Practice, which are current expectations in today's workplace. Students will draw upon these conclusions to develop a Personal Learning Plan to transition into high school with a broad career cluster focus.

Recommended Level: Middle/Junior High

Career Cluster: Foundation, Career Development and Career Education Introductory Courses

***Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:***

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304
FAMILY/CONSUMER SCIENCE	0903
INDUSTRIAL TECH EDUCATION	1000
MIDDLE GR/AG EDUCATION	1810
MIDDLE GR/BUSINESS ED	1812
MIDDLE GR/FAMILY & CONSUMER	1813
MIDDLE GR/INDUSTRIAL TECH	1816
SCHOOL COUNSELOR	2501

**HIGH SCHOOL CAREER DEVELOPMENT**

Short Name  
**HS CAREER**

Course Code  
**320101**

Students learn and apply the career and college planning process using the Nebraska Career Education Model and related resources. Students will identify personal interests, skills and values, then apply this knowledge to both academic and career decision making. Students will demonstrate progress/proficiency in Nebraska Career Readiness Standards of Practice which are current expectations in today's workplace. Student will activate the planning process by setting goals, developing and implement a Personal Learning Plan, for effective transition from high school to most appropriate post secondary education based on knowledge of self, career goal and financial considerations.

Recommended Level: High School

Career Cluster: Foundation, Career Development and Career Education Introductory Courses

***Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:***

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304
FAMILY/CONSUMER SCIENCE	0903
INDUSTRIAL TECH EDUCATION	1000
MIDDLE GR/AG EDUCATION	1810
MIDDLE GR/BUSINESS ED	1812
MIDDLE GR/FAMILY & CONSUMER	1813
MIDDLE GR/INDUSTRIAL TECH	1816
SCHOOL COUNSELOR	2501

<b>CAREER EDUCATION FOUNDATIONAL AND SPECIALTY</b>
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<b>ENGAGE! CAREER EXPLORATION AND READINESS</b>	<u>Short Name</u> <b>ENGAGE</b>	<u>Course Code</u> <b>320300</b>
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This is a project based course designed to help middle school students explore career options using the Nebraska Career Education Model and understand the Nebraska Career Readiness Standards. The course is organized by three themes - Making it My Choice, A World of Options and Charting a Direction - with culminating individual and group projects. Students will define career clusters and pathways, describe examples of career readiness, utilize self-assessments to better understand interests, establish a career portfolio and create a personal learning plan to provide direction to high school and post-high school activities. This course is aligned to American School Counselor Association Standards for Students and integrates EducationQuest tools and resources for middle school students.

Recommended Level: Grades 7-8

Career Cluster: Foundational, Career Development and Career Education Introductory Course

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304
FAMILY/CONSUMER SCIENCE	0903
INDUSTRIAL TECH EDUCATION	1000
MIDDLE GR/AG EDUCATION	1810
MIDDLE GR/BUSINESS ED	1812
MIDDLE GR/FAMILY & CONSUMER	1813
MIDDLE GR/INDUSTRIAL TECH	1816
SCHOOL COUNSELOR	2501

<b>C4C-CURRICULUM FOR CAREERS</b>	<u>Short Name</u> <b>C4C-CUR/CA</b>	<u>Course Code</u> <b>320400</b>
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This course provides an introduction to the Essential Knowledge and Skills of the Nebraska Career Education Model. It also introduces students to the Nebraska Career Fields and sixteen career Cluster. Students will develop a 6+ year Personal Learning Plan at the completion of this course.

Recommended Level: Middle/Junior High

Career Cluster: Foundation, Career Development and Career Education Introductory Courses

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304
FAMILY/CONSUMER SCIENCE	0903
INDUSTRIAL TECH EDUCATION	1000
MIDDLE GR/AG EDUCATION	1810
MIDDLE GR/BUSINESS ED	1812
MIDDLE GR/FAMILY & CONSUMER	1813
MIDDLE GR/INDUSTRIAL TECH	1816
SCHOOL COUNSELOR	2501

**CAREER EDUCATION FOUNDATIONAL AND SPECIALTY**

**FUNDAMENTALS OF ENTREPRENEURSHIP**

Short Name  
**FUN ENTREP**      Course Code  
**320600**

Fundamentals of Entrepreneurship is a course designed for students to explore the characteristics of an entrepreneur within any of the six career fields. Students will analyze opportunities in entrepreneurship. Emphasis is on understanding the forms of business ownership and reviewing the challenges and rewards of entrepreneurship. The role of entrepreneurial businesses in the United States and the impact on the local, regional and national economy will be explored. Students will identify and understand the rationale of a start-up business plan.

Recommended Level: Grades 9-12

Career Cluster: Foundation, Career Development and Career Education Introductory Courses

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304
FAMILY/CONSUMER SCIENCE	0903

**WORK-BASED LEARNING/COOP/DO CLASS**

Short Name  
**COOP ED/DO**      Course Code  
**320700**

A class that provides students the opportunity to connect what they learn in school with worksite application. Students are placed in an occupation that best relates to their career interest and aptitude. The school and business community work together to plan activities that will enable each student to apply the knowledge, attitudes and skills learned in the classroom to actual business situations and positions.

This course must be a part of an NDE approved Cooperative Education/Diversified Occupations Program.

Recommended Level: Grades 11-12

Career Cluster: Foundation, Career Development and Career Education Introductory Courses

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
COOP ED DIV OCC	1605

**WORK-BASED LEARNING/COOP/DO EXPERIENCE**

Short Name  
**COOPDO EXP**      Course Code  
**320701**

This course allows the district to award credit for the work based learning work experience. This is a companion course to 320700, the classroom portion of the COOP/DO, work based learning program.

This course must be a part of an NDE approved Cooperative Education/Diversified Occupations Program.

Recommended Level: Grades 11-12

Career Cluster: Foundation, Career Development and Career Education Introductory Courses.

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
COOP ED DIV OCC	1605

**CAREER EDUCATION FOUNDATIONAL AND SPECIALTY**

**CAREER ED FOUNDATIONAL & SPECIALTY, OTHER**

Short Name  
**CEFS,OTHER**

Course Code  
**329930**

Courses not otherwise listed. Using codes 329930-329934 means you can add five "other courses" by using one code for each one of the five courses. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster Level: Foundation, Career Development and Career Education

***Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:***

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304
FAMILY/CONSUMER SCIENCE	0903
INDUSTRIAL TECH EDUCATION	1000
MIDDLE GR/AG EDUCATION	1810
MIDDLE GR/BUSINESS ED	1812
MIDDLE GR/FAMILY & CONSUMER	1813
MIDDLE GR/INDUSTRIAL TECH	1816
SCHOOL COUNSELOR	2501

**CAREER ED FOUNDATIONAL & SPECIALTY, OTHER**

Short Name  
**CEFS,OTHER**

Course Code  
**329931**

Courses not otherwise listed. Using codes 329930-329934 means you can add five "other courses" by using one code for each one of the five courses. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster Level: Foundation, Career Development and Career Education

***Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:***

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304
FAMILY/CONSUMER SCIENCE	0903
INDUSTRIAL TECH EDUCATION	1000
MIDDLE GR/AG EDUCATION	1810
MIDDLE GR/BUSINESS ED	1812
MIDDLE GR/FAMILY & CONSUMER	1813
MIDDLE GR/INDUSTRIAL TECH	1816
SCHOOL COUNSELOR	2501

<b>CAREER EDUCATION FOUNDATIONAL AND SPECIALTY</b>
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<b>CAREER ED FOUNDATIONAL &amp; SPECIALTY, OTHER</b>	<u>Short Name</u> <b>CEFS,OTHER</b>	<u>Course Code</u> <b>329932</b>
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Courses not otherwise listed. Using codes 329930-329934 means you can add five "other courses" by using one code for each one of the five courses. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster Level: Foundation, Career Development and Career Education

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304
FAMILY/CONSUMER SCIENCE	0903
INDUSTRIAL TECH EDUCATION	1000
MIDDLE GR/AG EDUCATION	1810
MIDDLE GR/BUSINESS ED	1812
MIDDLE GR/FAMILY & CONSUMER	1813
MIDDLE GR/INDUSTRIAL TECH	1816
SCHOOL COUNSELOR	2501

<b>CAREER ED FOUNDATIONAL &amp; SPECIALTY, OTHER</b>	<u>Short Name</u> <b>CEFS,OTHER</b>	<u>Course Code</u> <b>329933</b>
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Courses not otherwise listed. Using codes 329930-329934 means you can add five "other courses" by using one code for each one of the five courses. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster Level: Foundation, Career Development and Career Education

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304
FAMILY/CONSUMER SCIENCE	0903
INDUSTRIAL TECH EDUCATION	1000
MIDDLE GR/AG EDUCATION	1810
MIDDLE GR/BUSINESS ED	1812
MIDDLE GR/FAMILY & CONSUMER	1813
MIDDLE GR/INDUSTRIAL TECH	1816
SCHOOL COUNSELOR	2501

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**CAREER EDUCATION FOUNDATIONAL AND SPECIALTY**

<b>CAREER ED FOUNDATIONAL &amp; SPECIALTY, OTHER</b>	<u>Short Name</u> <b>CEFS,OTHER</b>	<u>Course Code</u> <b>329934</b>
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Courses not otherwise listed. Using codes 329930-329934 means you can add five "other courses" by using one code for each one of the five courses. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster Level: Foundation, Career Development and Career Education

***Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:***

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304
FAMILY/CONSUMER SCIENCE	0903
INDUSTRIAL TECH EDUCATION	1000
MIDDLE GR/AG EDUCATION	1810
MIDDLE GR/BUSINESS ED	1812
MIDDLE GR/FAMILY & CONSUMER	1813
MIDDLE GR/INDUSTRIAL TECH	1816
SCHOOL COUNSELOR	2501

**COMMUNICATION & INFORMATION SYSTEMS****PROGRAMMING I**Short NameCourse Code**PROG I****270401**

Programming I covers fundamental concepts of programming. These are provided through explanations and effects of commands and hands-on utilization of computers to produce correct output. This course introduces effective techniques necessary for the efficient solution of a variety of complex problems using a high-level programming language. It includes problem descriptions, flow charts, hierarchy diagrams, pseudocode, and program documentation as a means of solving these problems. This course emphasizes the creation of efficient algorithms through fundamental programming techniques such as input/output handling, programming structures, and data storage. Students are introduced to project management techniques, including standard debugging techniques and collaborative programming strategies.

Recommended Level: Grades 10-12

Career Cluster: Information Technology

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INFORMATION TECHNOLOGY	2701
MATHEMATICS	1100

**PROGRAMMING II**Short NameCourse Code**PROG II****270402**

Students will demonstrate advanced skills in the software development life cycle through in-depth use of a modern programming language. The content covered will include high-level, object-oriented concepts, while emphasizing the design of elegant solutions and efficient algorithms. Topics covered include the use of simple data types as well as complex data structures, best practices in application design, and the collaborative and social aspects of computing.

Recommended Level: Grades 10-12

Career Cluster: Information Technology

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INFORMATION TECHNOLOGY	2701
MATHEMATICS	1100

**PROGRAMMING III**Short NameCourse Code**PROG III****270403**

Students will demonstrate advanced skills in the program development process through expanded use of programming language. Languages may include, but are not limited to C++, Visual Basic, Java, SQL, RPG, COBOL and Assembler. Students demonstrating advanced level programming knowledge and skills may be exposed to collaborative environments that simulate project environments.

Recommended Level: Grades 11-12

Career Cluster: Information Technology

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INFORMATION TECHNOLOGY	2701
MATHEMATICS	1100

<b>COMMUNICATION &amp; INFORMATION SYSTEMS</b>
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**INFORMATION TECHNOLOGY APPLICATIONS I**

Short Name

Course Code

**ITECH I**

**270501**

Students will explore emerging technologies as it applies to their success for high school, college, and career. The focus will be on the importance of digital citizenship, professional communication practices, advanced document processing, professional presentations, and intermediate spreadsheet and database applications used personally and professionally.

Recommended Level: Grades 9-10

Career Cluster: Information Technology

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304
INFORMATION TECHNOLOGY	2701

**INFORMATION TECHNOLOGY APPLICATIONS II**

Short Name

Course Code

**ITECH II**

**270502**

This course will focus on skill development in advanced spreadsheet, database, integration of applications utilizing advanced features, and exploring web technologies. Students taking both Information Technology Applications I and II may be eligible for dual credit at a participating postsecondary institution. Skills, standards, and coursework align with industry certifications.

Recommended Level: Grades 9-10

Career Cluster: Information Technology

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BASIC BUSINESS	0301
BUSINESS, MARKETING, INFO TECH	0304
INFORMATION TECHNOLOGY	2701

**COMMUNICATION & INFORMATION SYSTEMS****INFORMATION TECHNOLOGY FUNDAMENTALS**Short NameCourse Code**ITECH FUND****270504**

Students are introduced to the proper use of information technologies (IT). In addition, they will be introduced to hardware and software selection and use, technology resource support, and ethical issues. Students will investigate information technology careers and certifications in networking, programming and IT support services. Units would include, but not be limited to, exploring concepts in networking, programming, and support services, computer hardware components and peripherals, system and application software, and impact of technology on society.

Recommended Level: Grades 10-12

Career Cluster: Information Technology

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BUSINESS, MARKETING, INFO TECH	0304
INFORMATION TECHNOLOGY	2701

**CISCO I: INTRODUCTION TO NETWORKS**Short NameCourse Code**INTRONET****270505**

This course introduces the architecture, structure, functions, components, and models of the Internet and other computer networks. The principles and structure of IP addressing and the fundamentals of Ethernet concepts, media and operations are introduced to provide a foundation for the curriculum. By the end of this course, students will be able to build simple LANs, perform basic configurations for routers and switches and implement IP addressing schemes.

Recommended Level: Grades 10-12

Career Cluster: Information Technology

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INFORMATION TECHNOLOGY	2701

**CISCO II: ROUTING AND SWITCHING ESSENTIALS**Short NameCourse Code**R&S ESSEN****270506**

This course describes the architecture, components and operations of routers and switches in a small network. Students learn how to configure a router and a switch for basic functionality. By the end of this course, students will be able to configure and troubleshoot routers and switches and resolve common issues with RIPv1, RIPv2, single area and multi-area OSPF, virtual LANs, and inter-VLAN routing in both IPv4 and IPv6 networks. CCNA II is part of the CISCO Certified Network Associate program that prepares students for the CCENT industry certification.

Recommended Level: Grades 10-12

Career Cluster: Information Technology

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INFORMATION TECHNOLOGY	2701

**COMMUNICATION & INFORMATION SYSTEMS****CISCO III: SCALING NETWORKS**Short NameCourse Code**SCAL NET****270507**

This course describes the architecture, components and operations of routers and switches in a larger and more complex network. Students learn how to configure routers and switches for advanced functionality. By the end of this course, students will be able to configure and troubleshoot routers and switches and resolve common issues with OSPF, EIGRP, STP, and VTP in both IPv4 and IPv6 networks. Students will also develop the knowledge and skills needed to implement DHCP and DNS operations in a network. CISCO III is part of the Cisco Certified Network Associate program that prepares students for industry certification.

Recommended Level: Grades 11-12

Career Cluster: Informational Technology

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

INFORMATION TECHNOLOGY

2701

**NETWORK SYSTEMS**Short NameCourse Code**NET SYS****270601**

This course is a study of the fundamentals of current networking technology. Students will learn to design, plan, implement, and support computer networks. The course introduces a full range of computer networking from local area networks to wide area networks.

Recommended Level: Grades 10-12

Career Cluster: Information Technology

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

INFORMATION TECHNOLOGY

2701

**DIGITAL MEDIA**Short NameCourse Code**DIG MEDIA****270602**

Students will create, design and produce digital media including sound, video, graphics, text, and animation. Emphasis will be placed on effective use of tools for interactive multimedia production including storyboarding, visual development, project management and web processes.

Recommended Level: Grades 10-12

Career Cluster: Information Technology

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement NameEndorsement Number

BUSINESS, MARKETING, INFO TECH

0304

INFORMATION TECHNOLOGY

2701

<b>COMMUNICATION &amp; INFORMATION SYSTEMS</b>
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**WEB DESIGN**

Short Name

Course Code

**WEB DESIGN**

**270604**

Students will demonstrate knowledge of web design and languages, including HyperText Markup Language (HTML) and Cascading Style Sheets (CSS) to create a content rich and visually pleasing website that captures and keeps visitors' interests. Focus will be given to effective page layout, image creation and manipulation, interactivity, content creation, and project management. This course may be available for dual credit at a postsecondary institution.

Recommended Level: Grades 10-12

Career Cluster: Information Technology

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BUSINESS, MARKETING, INFO TECH	0304
INFORMATION TECHNOLOGY	2701

**PC SUPPORT AND MAINTENANCE**

Short Name

Course Code

**PC SUPP**

**270606**

Students enter the world of computer technology and gain practical experience in assembling a computer system, installing an operating system, troubleshooting computers and peripherals, and using system tools and diagnostic software. They develop skills in resource sharing. In addition, students explore the relationships between internal and external computer components. Emphasis is placed on customer service skills and career exploration.

Recommended Level: Grades 10-12

Career Cluster: Information Technology

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BUSINESS, MARKETING, INFO TECH	0304
INFORMATION TECHNOLOGY	2701

**INFORMATION TECHNOLOGY SUPPORT**

Short Name

Course Code

**ITECSUP**

**270607**

Students will explore the issues related to providing information technology support to organizations. They will practice effective customer support strategies and learn troubleshooting techniques for hardware, software, and operating systems. Students will recommend technology products, design training documentation, and identify security threats.

Recommended Level: Grades 10-12

Career Cluster: Information Technology

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BUSINESS, MARKETING, INFO TECH	0304
INFORMATION TECHNOLOGY	2701

<b>COURSE CODES AND CLEARING ENDORSEMENTS</b>	<b>Page 45</b>	<b>Revised June 2016</b>
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<b>COMMUNICATION &amp; INFORMATION SYSTEMS</b>
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**INTRODUCTION TO MEDIA**

Short Name

Course Code

**INT MEDIA**

**270608**

Students enrolled in this course will explore media skills for a variety of purposes (e.g., print, broadcast, video, audio, Internet, mobile). Students will learn about the power of the media and its historical development, current trends, and future innovations. Legal and ethical standards will be introduced as students begin the writing and editing process through hands-on opportunities with equipment and software.

Recommended Level: Grades 10-12

Career Cluster: Arts, A/V Technology, and Communications

***Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:***

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BUSINESS, MARKETING, INFO TECH	0304
ENGLISH LANGUAGE ARTS	0502
INFORMATION TECHNOLOGY	2701
JOURNALISM AND MEDIA EDUCATION	0510
JOURNALISM AND MEDIA EDUCATION	0520
SPEECH	0506
SPEECH	0522

**MEDIA PRODUCTION I**

Short Name

Course Code

**MEDIA PROD**

**270609**

Students will expand their media skills of interviewing, reporting, writing, editing, photography/videography, and design. Students will explore careers while working together to create projects in a variety of media, such as print, web, podcast, and/or broadcast. The emphasis of Media Production I is on collaboration and career exploration.

Recommended Level: Grades 10-12

Career Cluster: Arts, A/V Technology and Communications

***Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:***

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BUSINESS, MARKETING, INFO TECH	0304
ENGLISH LANGUAGE ARTS	0502
INFORMATION TECHNOLOGY	2701
JOURNALISM AND MEDIA EDUCATION	0510
JOURNALISM AND MEDIA EDUCATION	0520
SPEECH	0506
SPEECH	0522

<b>COURSE CODES AND CLEARING ENDORSEMENTS</b>	<b>Page 46</b>	<b>Revised June 2016</b>
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<b>COMMUNICATION &amp; INFORMATION SYSTEMS</b>
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**MEDIA PRODUCTION II**

Short Name

Course Code

**MED PRODII**

**270610**

Students will apply their media skills of interviewing, reporting, writing, editing, photography/videography, and design. Students will produce in a variety of media, such as print, broadcast, video, audio, Internet, and/or mobile. The emphasis of Media Production II is to work both independently and collaboratively to create a professional product while meeting deadlines.

Recommended Level: Grades 10-12

Career Cluster: Arts, A/V Technology and Communications

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BUSINESS, MARKETING, INFO TECH	0304
ENGLISH LANGUAGE ARTS	0502
INFORMATION TECHNOLOGY	2701
JOURNALISM AND MEDIA EDUCATION	0510
JOURNALISM AND MEDIA EDUCATION	0520
SPEECH	0506
SPEECH	0522

**INTRODUCTION TO DIGITAL DESIGN**

Short Name

Course Code

**INT DIGTL**

**270611**

This course will introduce students to the technical tools and processes used in digital design. Students will be introduced to the design process model which includes typography, color, and imagery. In addition, design software will be utilized to create graphics, animation, web pages, and video. Students will demonstrate proper use of fair use guidelines. Career opportunities in digital design will be explored.

Recommended Level: Grades 9-12

Career Cluster: Arts, A/V Technology and Communications

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
ART	0200
BUSINESS, MARKETING, INFO TECH	0304
INFORMATION TECHNOLOGY	2701

<b>COMMUNICATION &amp; INFORMATION SYSTEMS</b>
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**INTERMEDIATE DIGITAL DESIGN**

Short Name

Course Code

**INTER DIGT**

**270612**

Intermediate Digital Design is the second course within the Digital Design Pathway where students will focus on developing advanced skills to plan, design, and create interactive projects using the elements of text, graphics, animation, sound, video, and digital imaging in interactive projects. These skills can prepare students for entry-level positions and other occupational or educational goals.

Recommended Level: Grades 10-12

Career Cluster: Arts, A/V Technology and Communications

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
ART	0200
BUSINESS, MARKETING, INFO TECH	0304
INFORMATION TECHNOLOGY	2701

**ADVANCED DIGITAL DESIGN**

Short Name

Course Code

**ADV DIGTL**

**270613**

Advanced Digital Design is the final course in the Digital Design Pathway. Students focus on integrating computer skills and promoting individual design concepts and approaches in digital design. Studio problems are used to continue study in a variety of visual disciplines. The course includes organized learning experiences that incorporate a variety of visual art techniques as they relate to the real world of digital design: composition, color theory, illustrations, displays, promotional materials, packaging, logos, motion graphics, and the manipulation of photographic images.

Recommended Level: Grades 11-12

Career Cluster: Arts, A/V Technology and Communications

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
ART	0200
BUSINESS, MARKETING, INFO TECH	0304
INFORMATION TECHNOLOGY	2701

<b>COMMUNICATION &amp; INFORMATION SYSTEMS</b>
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**ADVANCED PLACEMENT COMPUTER SCIENCE A**

Short Name

Course Code

**AP COMSC A**

**270700**

The course emphasizes object-oriented programming methodology with a concentration on problem solving and algorithm development, and is meant to be the equivalent of a first-semester college-level course in computer science. It also includes the study of data structures, design and abstraction. Students are expected to be familiar with and be able to use standard Java library classes from the AP Java subject. Students should be able to read and understand a description of the design and development process leading to such a program. This course is governed by the AP College Board. Individual teachers are required to have approval of syllabus and course materials by the College Board prior to offering the course. Topics are defined by the College Board located on their website: [www.collegeboard.org](http://www.collegeboard.org)

Career Cluster: Information Technology

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INFORMATION TECHNOLOGY	2701
MATHEMATICS	1100

**ADVANCED PLACEMENT COMPUTER SCIENCE PRINCIPLES**

Short Name

Course Code

**AP CSP**

**270702**

The course introduces the essential ideas of computer science with a focus on how computing can impact the world. Along with the fundamentals of computing, one will learn to analyze data, information, or knowledge represented for computational use; create technology that has a practical impact; and gain a broader understanding of how computer science impacts people and society.

This course is governed by the AP College Board. Individual teachers are required to have approval of syllabus and course materials by the College Board prior to offering the course. Topics are defined by the College Board located on their website: [www.collegeboard.org](http://www.collegeboard.org)

Career Cluster: Information Technology

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INFORMATION TECHNOLOGY	2701
MATHEMATICS	1100

**COMMUNICATION AND INFORMATION SYSTEMS, OTHER**

Short Name

Course Code

**COMP OTHER**

**279930**

Programs or courses not otherwise listed or classifiable.

Using codes 279930 through 279934 means you can add five "other" courses by using one code for each one of the five courses. PLEASE NOTE: Courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Information Technology

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BUSINESS, MARKETING, INFO TECH	0304
INFORMATION TECHNOLOGY	2701

**COMMUNICATION & INFORMATION SYSTEMS****COMMUNICATION AND INFORMATION SYSTEMS, OTHER**Short NameCourse Code**COMP OTHER****279931**

Programs or courses not otherwise listed or classifiable.

Using codes 279930 through 279934 means you can add five "other" courses by using one code for each one of the five courses.  
PLEASE NOTE: Courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Information Technology

**Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:**Endorsement NameEndorsement Number

BUSINESS, MARKETING, INFO TECH

0304

INFORMATION TECHNOLOGY

2701

**COMMUNICATION AND INFORMATION SYSTEMS, OTHER**Short NameCourse Code**COMP OTHER****279932**

Programs or courses not otherwise listed or classifiable.

Using codes 279930 through 279934 means you can add five "other" courses by using one code for each one of the five courses.  
PLEASE NOTE: Courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Information Technology

**Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:**Endorsement NameEndorsement Number

BUSINESS, MARKETING, INFO TECH

0304

INFORMATION TECHNOLOGY

2701

**COMMUNICATION AND INFORMATION SYSTEMS, OTHER**Short NameCourse Code**COMP OTHER****279933**

Programs or courses not otherwise listed or classifiable.

Using codes 279930 through 279934 means you can add five "other" courses by using one code for each one of the five courses.  
PLEASE NOTE: Courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Information Technology

**Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:**Endorsement NameEndorsement Number

BUSINESS, MARKETING, INFO TECH

0304

INFORMATION TECHNOLOGY

2701

<b>COMMUNICATION &amp; INFORMATION SYSTEMS</b>
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**COMMUNICATION AND INFORMATION SYSTEMS, OTHER**

Short Name

Course Code

**COMP OTHER**

**279934**

Programs or courses not otherwise listed or classifiable.

Using codes 279930 through 279934 means you can add five "other" courses by using one code for each one of the five courses.  
PLEASE NOTE: Courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Information Technology

*Clearing Endorsement - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BUSINESS, MARKETING, INFO TECH	0304
INFORMATION TECHNOLOGY	2701

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**EDUCATION AND TRAINING**

**EXPLORING EDUCATION AND TRAINING**

Short Name

Course Code

**EXP ED TR**

**350001**

This course is designed to help students explore professional or learning support positions in education, education-related careers and training. Student will research the profession of teaching and personality and leadership traits that contribute to a successful teacher. The course will provide an overview of ethics and professionalism, societal influences, classroom management and practices, and the understanding of the educational governance structure.

Recommended Level: Grades 9-12

Career Cluster: Education and Training

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

OTHER ENDORSEMENT

8888

**HUMAN GROWTH AND DEVELOPMENT**

Short Name

Course Code

**HUMAN DEV**

**350002**

This course covers the study of human development (physical, mental, emotional and social) either from infancy through adolescence, or through the entire lifespan. Includes how to develop positive interactions with others, and how development can be guided at each age.

Recommended Level: Grades 10-12

Career Cluster: Education and Training

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

FAMILY/CONSUMER SCIENCE

0903

**EXPERIENCING TEACHING**

Short Name

Course Code

**EXP TEACH**

**350010**

This course provides students with volunteer experience in fields related to education. Goals are cooperatively set by students and supervising teacher so that students increase their understanding about the roles and responsibilities of a teacher. Opportunities may include experiencing teaching in a controlled setting by designing learning experiences and giving presentations. Classroom instruction could include questioning, developing objectives and assessments, safety practices, IEP development and technology applications.

Recommended Level: Grades 10-12

Career Cluster: Education and Training

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

OTHER ENDORSEMENT

8888

<b>EDUCATION AND TRAINING</b>
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**EARLY CHILDHOOD EDUCATION I**

<u>Short Name</u>	<u>Course Code</u>
<b>ECED I</b>	<b>350015</b>

This course focuses on the ages of birth to eight years and in areas such as: Creating a learning environment, interacting with children, creating learning activities, health and safety, and nutrition. It may also include instruction on parenting practices. It is recommended that students attain CPR certification by the end of this course.

Recommended Level: Grades 10-12

Career Cluster Level: Education and Training

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
FAMILY/CONSMR SCIENCE	0903

**EARLY CHILDHOOD EDUCATION II**

<u>Short Name</u>	<u>Course Code</u>
<b>ECED II</b>	<b>350020</b>

An examination of various types of early childhood programs and the licensure requirements related to each, program planning and evaluation, and working with special needs children. Hands-on experience with young children is strongly recommended.

Recommended Level: Grades 10-12

Career Cluster: Education and Training

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
FAMILY/CONSMR SCIENCE	0903

**EDUCATION AND TRAINING, OTHER**

<u>Short Name</u>	<u>Course Code</u>
<b>EDTR, OTH</b>	<b>359930</b>

Courses not otherwise listed. Using codes 359930-359934 means you can add five "other" courses by using one code for each one of the five courses. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Education and Training

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
FAMILY/CONSMR SCIENCE	0903
OTHER ENDORSEMENT	8888

**EDUCATION AND TRAINING**

**EDUCATION AND TRAINING, OTHER**

Short Name

Course Code

**EDTR, OTH**

**359931**

Courses not otherwise listed. Using codes 359930-359934 means you can add five "other" courses by using one code for each one of the five courses. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Education and Training

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
FAMILY/CONSMR SCIENCE	0903
OTHER ENDORSEMENT	8888

**EDUCATION AND TRAINING, OTHER**

Short Name

Course Code

**EDTR, OTH**

**359932**

Courses not otherwise listed. Using codes 359930-359934 means you can add five "other" courses by using one code for each one of the five courses. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Education and Training

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
FAMILY/CONSMR SCIENCE	0903
OTHER ENDORSEMENT	8888

**EDUCATION AND TRAINING, OTHER**

Short Name

Course Code

**EDTR, OTH**

**359933**

Courses not otherwise listed. Using codes 359930-359934 means you can add five "other" courses by using one code for each one of the five courses. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Education and Training

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
FAMILY/CONSMR SCIENCE	0903
OTHER ENDORSEMENT	8888

<b>EDUCATION AND TRAINING</b>
-------------------------------

**EDUCATION AND TRAINING, OTHER**

Short Name

Course Code

**EDTR, OTH**

**359934**

Courses not otherwise listed. Using codes 359930-359934 means you can add five "other" courses by using one code for each one of the five courses. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Education and Training

*Clearing Endorsement - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
FAMILY/CONSMR SCIENCE	0903
OTHER ENDORSEMENT	8888

<b>COURSE CODES AND CLEARING ENDORSEMENTS</b>	<b>Page 90</b>	<b>Revised June 2016</b>
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<b>HEALTH SCIENCES</b>
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**EXPLORATION OF HEALTH SCIENCES**

Short Name

Course Code

**EXPLORE HS**

**077200**

Introduction to Health Science careers within the five pathways. This course may provide experiences along with information and knowledge related to the health care field.

Recommended Level: Middle/Junior High

Career Cluster: Health Sciences

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
FAMILY/CONSMR SCIENCE	0903
HEALTH & PHYS EDUC	2304
HEALTH EDUCATION	0801
HEALTH SCIENCES	0700

**PLTW MEDICAL DETECTIVES**

Short Name

Course Code

**PLTW MD**

**077201**

This course is taught at the middle school level. Medical Detectives (MD) explores the biomedical sciences through hands-on projects and labs that require students to solve a variety of medical mysteries. Students investigate medical careers, vital signs, diagnosis and treatment of diseases, as well as human body systems such as the nervous system. Genetic testing for hereditary diseases and DNA crime scene analysis put the students in the place of real life medical detectives.

Teacher/Instructor is required to complete PLTW teacher professional development in order to teach this course.

Recommended Level: Grade 8

Career Cluster: Health Sciences

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BIOLOGY	1303
FAMILY/CONSMR SCIENCE	0903
HEALTH & PHYS EDUC	2304
HEALTH SCIENCES	0700
SCIENCE	1301

**HEALTH SCIENCES****HEALTH SCIENCES I**Short NameCourse Code**HLTHSC I****077300**

Introduction to Health Sciences is designed to give an overview of the therapeutic, diagnostic, support services, biotechnology & research and health informatics pathways. The course focuses on health careers, exploration, leadership development, medical terminology, ethical and legal responsibilities, the history of health care and the economics of health care. Classroom and laboratory activities are supplemented through health science experiences and leadership programs and activities.

Recommended Level: Grades 9-12

Career Cluster: Health Sciences

***Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:***

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BIOLOGY	1303
FAMILY/CONSUMER SCIENCE	0903
HEALTH & PHYS EDUC	2304
HEALTH EDUCATION	0801
HEALTH SCIENCES	0700
SCIENCE	1301

**HEALTH SCIENCES II**Short NameCourse Code**HLTHSC II****077301**

This course is designed to experience health careers at a personal level. Instruction includes anatomy and physiology, medical terminology, medical ethics and law, diseases and disorders, positive and negative health and wellness behaviors, and first aid. Skills learned will be applicable to students continuing in the medical science field. Classroom and laboratory activities are supplemented through health science experiences and leadership programs and activities.

Recommended Level: Grades 9-12

Career Cluster: Health Sciences

***Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:***

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BIOLOGY	1303
FAMILY/CONSUMER SCIENCE	0903
HEALTH & PHYS EDUC	2304
HEALTH EDUCATION	0801
HEALTH SCIENCES	0700
SCIENCE	1301

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<b>HEALTH SCIENCES</b>
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**HEALTH SCIENCES III**

Short Name

Course Code

**HLTHSCIII**

**077302**

Advanced Studies is the appreciation and exploration of a variety of health science careers or an in-depth study of a specific health science career. Course work would include work-based learning experiences, advanced career planning, and mentorship opportunities in the student's career interest. This could be designated as an individualized study program. It is recommended for senior year; with appropriate prerequisite course work and faculty and/or industry approval. Classroom and laboratory activities are supplemented through health science experiences and leadership programs and activities.

Recommended Level: Grade 12

Career Cluster: Health Sciences

***Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:***

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BIOLOGY	1303
FAMILY/CONSUMER SCIENCE	0903
HEALTH & PHYS EDUC	2304
HEALTH EDUCATION	0801
HEALTH SCIENCES	0700
SCIENCE	1301

**PERSONAL AND COMMUNITY MEDICAL ISSUES/PUBLIC HEALTH**

Short Name

Course Code

**MEDISSPH**

**077303**

Students will gain an increased understanding of how their personal health is influenced by a wide range of biological, environmental, political, and societal factors, and will explore the numerous ways in which public health professionals are trained to promote and protect population health and well-being locally, regionally, at the national, as well as the global level. This course will engage students in critical conversations around how they can influence their own, as well their community's health outcomes through education and advocacy efforts. A variety of both acute and chronic diseases will be explored from a public health perspective. Classroom and laboratory activities are supplemented through health science experiences and leadership programs and activities.

Recommended Level: Grades 11-12

Career Cluster: Health Sciences

***Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:***

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BIOLOGY	1303
FAMILY/CONSUMER SCIENCE	0903
HEALTH & PHYS EDUC	2304
HEALTH EDUCATION	0801
HEALTH SCIENCES	0700
SCIENCE	1301

<b>COURSE CODES AND CLEARING ENDORSEMENTS</b>	<b>Page 93</b>	<b>Revised June 2016</b>
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<b>HEALTH SCIENCES</b>
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**EXPLORING THE CLINICAL LAB**

Short Name

Course Code

**CLINLAB**

**077304**

This course provides students with the art and science of the clinical laboratory. The class will explore the global range of career opportunities and traits available in the clinical lab. Students will job shadow in the community to gain real life clinical lab experience. Examination of legal and ethical issues will be covered throughout the class. Participants will have hands on practice with lab techniques, equipment, and record keeping relevant to medical, veterinary, dental, biotechnology, agricultural and food science and multiple other professions. Classroom and laboratory activities are supplemented through health science experiences and leadership programs and activities.

Recommended Level: Grades 9-12

Career Cluster: Health Sciences

***Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:***

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BIOLOGY	1303
FAMILY/CONSUMER SCIENCE	0903
HEALTH & PHYS EDUC	2304
HEALTH EDUCATION	0801
HEALTH SCIENCES	0700
SCIENCE	1301

**NURSING ASSISTANT/CNA**

Short Name

Course Code

**NA/CNA**

**077400**

This is a basic nursing knowledge and skills course for the nurse assistant in a health care setting. It meets the requirements of Public Law 100-203 OBRA and is approved by the Nebraska Department of Health. This course is required to be taught by a R.N. or B.S.N. in order for students to receive high school credit, arrangements need to be made to insure teaching certification. This course may be available for dual credit at a postsecondary institution. Classroom and laboratory activities are supplemented through health science experiences and leadership programs and activities.

Recommended Level: Grades 9-12

Career Cluster: Health Sciences

***Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:***

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BIOLOGY	1303
FAMILY/CONSUMER SCIENCE	0903
HEALTH & PHYS EDUC	2304
HEALTH EDUCATION	0801
HEALTH SCIENCES	0700
SCIENCE	1301

<b>HEALTH SCIENCES</b>
------------------------

**MEDICATION AIDE**

Short Name

Course Code

**MEDAIDE**

**077401**

A course of instruction in which an individual receives training in administering medications, this course has minimum requirement of 40 hours and students must be 18 yrs of age in order to sit for the written exam administered by the state board of Health and Human Services. This course must be taught by an R.N. licensed in QMA. This course may be available for dual credit at a postsecondary institution. Classroom and laboratory activities are supplemented through health science experiences and leadership programs and activities.

Recommended Level: Grades 11-12

Career Cluster: Health Sciences

***Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:***

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BIOLOGY	1303
FAMILY/CONSUMER SCIENCE	0903
HEALTH & PHYS EDUC	2304
HEALTH EDUCATION	0801
HEALTH SCIENCES	0700
SCIENCE	1301

**EMERGENCY MEDICAL TECHNICIAN/CERT**

Short Name

Course Code

**EMT/CERT**

**077402**

This course is designed and based on the Department of Transportation's National Highway Safety Administrations Emergency Medical Technician National Education Standards for teaching basic emergency medical care and transportation of critical and emergent patients who access the emergency medical system. This course focuses on the basic knowledge and skills necessary to provide care and transportation in an emergency situation providing the link between the emergency scene to the emergency health care system. Students learn to perform interventions with the basic equipment typically found on an ambulance.

This must be taught by a State licensed Emergency Medical Services - Instructor. Students must complete course and successfully complete the National Registry of Emergency Medical Technician's certification examination in order to apply for a State EMT license. Students must have reached the age of 18 in order to sit for the exam. A cooperating Nebraska endorsed teacher must collaborate with this course if the EMS instructor does not have a postsecondary dual-credit or a career education teaching permit. This course may be available for dual credit at a postsecondary institution.

Recommended Level: Grade 11

Career Cluster: Health Sciences

***Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:***

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BIOLOGY	1303
FAMILY/CONSUMER SCIENCE	0903
HEALTH & PHYS EDUC	2304
HEALTH SCIENCES	0700
SCIENCE	1301

<b>HEALTH SCIENCES</b>
------------------------

**PHARMACY TECHNICIAN**

<u>Short Name</u>	<u>Course Code</u>
<b>PHARM TECH</b>	<b>077444</b>

This course is an introduction to pharmacy technology professions. Employment opportunities and basic pre-pharmacy technician skills which may be utilized in either clinical and community settings such as retail, home health care and ambulatory care pharmacies. This course is recommended for students planning on pursuing careers which may require basic pharmaceutical knowledge, common health care mathematical applications and/or technical proficiency in the administration medications. After the completion of this course, students may be eligible to take the Pharmacy Technician Certification Exam (PTCE) through the Pharmacy Technician Certification Board (PTCB). This course may be available for dual credit at a postsecondary institution. Classroom and laboratory activities are supplemented through health science experiences and leadership programs and activities.

Prerequisites for the course are Introduction to Health Sciences (077300) and Medical Terminology (077600).  
 Recommended Level: Grades 11-12  
 Career Cluster: Health Sciences

***Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:***

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BIOLOGY	1303
HEALTH SCIENCES	0700
SCIENCE	1301

**PHLEBOTOMY TECHNICIAN**

<u>Short Name</u>	<u>Course Code</u>
<b>PHL TECH</b>	<b>077446</b>

This is a semester course designed to help the student become prepared for the phlebotomy technician certification exam upon completion of all required components. This course may be available for dual credit at a postsecondary institution. Classroom and laboratory activities are supplemented through health science experiences and leadership programs and activities.

Recommended Level: Grades 11-12  
 Career Cluster: Health Sciences

***Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:***

<u>Endorsement Name</u>	<u>Endorsement Number</u>
FAMILY/CONSUMER SCIENCE	0903
HEALTH SCIENCES	0700
SOCIAL SCIENCE	1501

**HEALTH SCIENCES**

**INTRODUCTION TO SPORTS MEDICINE**

Short Name  
**SPORTS MED**

Course Code  
**077500**

This course is designed for students who may be interested in a career in Sports Medicine. This course should feature the prevention, recognition, treatment, and rehabilitation of activities caused by physical activity or athletics. Topics may include taping and bandaging, proper use of protective padding, treatment modalities, anatomy and physiology, medical terminology. Students may learn to measure cardio respiratory endurance, flexibility, body composition, and blood pressure. CPR/AED certification is a prerequisite for this course or a required outcome of the course. This course may be available for dual credit at a postsecondary institution. Classroom and laboratory activities are supplemented through health science experiences and leadership programs and activities.

Recommended Level: Grades 10-12  
Career Cluster: Health Sciences

***Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:***

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BIOLOGY	1303
FAMILY/CONSUMER SCIENCE	0903
HEALTH & PHYS EDUC	2304
HEALTH EDUCATION	0801
HEALTH SCIENCES	0700
SCIENCE	1301

**MEDICAL TERMINOLOGY**

Short Name  
**MED TERM**

Course Code  
**077600**

This course is designed to help students learn medical language by analyzing their components. The primary focus is on developing both oral and written skills in the language used to communicate within health care professions. This course may be available for dual credit at a postsecondary institution. Classroom and laboratory activities are supplemented through health science experiences and leadership programs and activities.

Recommended Level: Grades 9-12  
Career Cluster: Health Sciences

***Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:***

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BIOLOGY	1303
FAMILY/CONSUMER SCIENCE	0903
HEALTH & PHYS EDUC	2304
HEALTH EDUCATION	0801
HEALTH SCIENCES	0700
SCIENCE	1301

**HEALTH SCIENCES**

**EXERCISE SCIENCE**

Short Name

Course Code

**EXER SCI**

**077601**

This course is appropriate for students wishing to pursue a career in personal training or for those who desire an introduction in the field of exercise science. The course will enable students to perform fitness assessments, according to current national guidelines and to use data to develop exercise and training routines, fitness plans and nutritional programs to fit the needs of clients. Successful completion of this course along with any other requirements may lead to a potential eligibility to take the Personal Trainer Exam through a certifying body. Leadership development activities of the career and technical student organization HOSA|Future Health Professionals is strongly encouraged. This course may be available for dual credit at a postsecondary institution. Classroom and laboratory activities are supplemented through health science experiences and leadership programs and activities.

Prerequisites for this course are Introduction to Health Sciences (077300) and Anatomy/Physiology (130210).

Recommended Level: Grades 11 -12

Career Cluster: Health Sciences

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BIOLOGY	1303
HEALTH & PHYS EDUC	2304
HEALTH EDUCATION	0801
HEALTH SCIENCES	0700
SCIENCE	1301

**PERFORMANCE NUTRITION**

Short Name

Course Code

**SPORT NUTR**

**077701**

This course is designed to help students explore professional or support positions in the field of Sport and Human Performance Nutrition. Students will study components of the science of nutrition as how it relates to and impacts the human body during performance. Classroom and laboratory activities are supplemented through health science experiences and leadership programs and activities.

Recommended Level: Grades 11-12

Career Cluster: Health Sciences

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BIOLOGY	1303
FAMILY/CONSMR SCIENCE	0903
HEALTH & PHYS EDUC	2304
HEALTH EDUCATION	0801
HEALTH SCIENCES	0700
SCIENCE	1301

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<b>HEALTH SCIENCES</b>
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**HUMAN LIFE CYCLE NUTRITION**

Short Name

Course Code

**HULICY NUT**

**077702**

This course is designed to give students an understanding of human nutrition and how it places a roll in every human life cycle. Every human age category and it's nutritional requirements for positive health and the impact of nutritional deficiencies will be studied. Classroom and laboratory activities are supplemented through health science experiences and leadership programs and activities.

Recommended Level: Grades 11

Career Cluster: Health Sciences

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
FAMILY/CONSUMER SCIENCE	0903
HEALTH & PHYS EDUC	2304
HEALTH SCIENCES	0700
SOCIAL SCIENCE	1501

**HEALTH INFORMATION TECHNOLOGY**

Short Name

Course Code

**HIT**

**077800**

Health Information Technology (HIT) is the management and use of information in Health Sciences related to, but not limited to, communications, legal & ethical implications, data management & organization, and technology applications. Completion of this course allows the student to obtain entry-level competencies defined by the American Health Information Management Association. These are nationally accepted standards of practitioner roles and function. This course may be available for dual credit at a postsecondary institution. Classroom and laboratory activities are supplemented through health science experiences and leadership programs and activities.

Recommended Level: Grades 9-12

Career Cluster: Health Sciences

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
HEALTH SCIENCES	0700
INFORMATION TECHNOLOGY	2701

<b>HEALTH SCIENCES</b>
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**BEHAVIORAL HEALTH I**

Short Name

Course Code

**BEHAV HE I**

**077801**

This is the first of two one a semester courses that establishes a foundation that is necessary to understand and investigate the field of Behavioral Health. Course emphasis is placed on teaching students to successfully investigate the Behavioral Health workforce structure and acquire awareness and knowledge of career area. Classroom and laboratory activities are supplemented through health science experiences and leadership programs and activities.

Recommended Level: Grades 11-12  
 Career Cluster: Health Sciences

This course can only be taught by teachers who have completed the Behavioral Health training.

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
FAMILY/CONSMR SCIENCE	0903
HEALTH & PHYS EDUC	2304
HEALTH SCIENCES	0700
SOCIAL SCIENCE	1501

**BEHAVIORAL HEALTH II**

Short Name

Course Code

**BEHAV HEII**

**077802**

Student must have completed Behavioral Health I in order to take this course. Course establishes a foundation that is necessary to understand and investigate the field of Behavioral Health. Course emphasis is placed on teaching students to successfully investigate the Behavioral Health workforce structure and acquire awareness and knowledge of career area. Classroom and laboratory activities are supplemented through health science experiences and leadership programs and activities.

Recommended Level: Grades 11-12  
 Career Cluster: Health Sciences

This course can only be taught by teachers who have completed the Behavioral Health training.

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
FAMILY/CONSMR SCIENCE	0903
HEALTH & PHYS EDUC	2304
HEALTH SCIENCES	0700
SOCIAL SCIENCE	1501

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<b>HEALTH SCIENCES</b>
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**PLTW PRINCIPLES OF BIOMEDICAL SCIENCE I**

Short Name

Course Code

**PLTW BMD I**

**077803**

This is the first of two courses. Students must complete this course in order to take Biomedical Science II. Due to the nature of PLTW project based course design this yearlong course is divided into two semesters for course coding and reporting. It is up to the teacher discretion where semester break occurs in individual classrooms.

In the introductory course of the PLTW Biomedical Science program, students explore concepts of biology and medicine to determine factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, basic biology, medicine, and research processes while allowing them to design their own experiments to solve problems.

Teacher/Instructor is required to successfully complete PLTW teacher professional development in order to teach this course.

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Recommended Level: Grades 9-10

Career Cluster: Health Sciences

Endorsement Name

Endorsement Number

BIOLOGY

1303

FAMILY/CONSUMER SCIENCE

0903

HEALTH SCIENCES

0700

**PLTW PRINCIPLES OF BIOMEDICAL SCIENCE II**

Short Name

Course Code

**PLTW BMDII**

**077804**

This is the second of two courses. Students must complete Biomedical Science I in order to take this class. Due to the nature of PLTW project based course design this yearlong course is divided into two semesters for course coding and reporting. It is up to the teacher discretion where semester break occurs in individual classrooms.

In the introductory course of the PLTW Biomedical Science program, students explore concepts of biology and medicine to determine factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, basic biology, medicine, and research processes while allowing them to design their own experiments to solve problems.

Teacher/Instructor is required to successfully complete PLTW teacher professional development in order to teach this course.

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Recommended Level: Grades 9-10

Career Cluster: Health Sciences

Endorsement Name

Endorsement Number

BIOLOGY

1303

FAMILY/CONSUMER SCIENCE

0903

HEALTH SCIENCES

0700

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<b>HEALTH SCIENCES</b>
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**PLTW HUMAN BODY SYSTEMS**

Short Name

Course Code

**PLTW HBS I**

**077805**

This is the first of two courses. Students must complete in order to take Human Body Systems II. Due to the nature of PLTW project based course design this yearlong course is divided into two semesters for course coding and reporting. It is up to the teacher discretion where semester break occurs in individual classrooms.

Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis. Exploring science in action, students build organs and tissues on a skeletal Maniken®; use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medical cases. Classroom and laboratory activities are supplemented through health science experiences and leadership programs and activities.

Teacher/Instructor is required to successfully complete PLTW teacher professional development in order to teach this course.

Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:

Recommended Level: Grades 10-11

Career Cluster: Health Sciences

Endorsement Name

Endorsement Number

BIOLOGY

1303

FAMILY/CONSMR SCIENCE

0903

HEALTH SCIENCES

0700

**PLTW HUMAN BODY SYSTEMS II**

Short Name

Course Code

**PLTW HBSII**

**077806**

This is the second of two courses. Student must complete Human Body Systems I in order to take this course. Due to the nature of PLTW project based course design this yearlong course is divided into two semesters for course coding and reporting. It is up to the teacher discretion where semester break occurs in individual classrooms.

Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis. Exploring science in action, students build organs and tissues on a skeletal Maniken®; use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medical cases. Classroom and laboratory activities are supplemented through health science experiences and leadership programs and activities.

Teacher/Instructor is required to successfully complete PLTW teacher professional development in order to teach this course.

Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:

Recommended Level: Grades 10-11

Career Cluster: Health Sciences

Endorsement Name

Endorsement Number

BIOLOGY

1303

FAMILY/CONSMR SCIENCE

0903

HEALTH SCIENCES

0700

<b>HEALTH SCIENCES</b>
------------------------

**PLTW MEDICAL INTERVENTIONS I**

<u>Short Name</u>	<u>Course Code</u>
<b>PLTW MI I</b>	<b>077807</b>

This is the first of two courses. Students must take this course in order to take Medical Interventions II. Due to the nature of PLTW project based course design this yearlong course is divided into two semesters for course coding and reporting. It is up to the teacher discretion where semester break occurs in individual classrooms.

Students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options; and prevail when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics. Classroom and laboratory activities are supplemented through health science experiences and leadership programs and activities.

Teacher/Instructor is required to successfully complete PLTW teacher professional development in order to teach this course.

***Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:***

Recommended Level: Grades 10-11  
Career Cluster: Health Sciences

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BIOLOGY	1303
FAMILY/CONSMR SCIENCE	0903
HEALTH SCIENCES	0700

**PLTW MEDICAL INTERVENTIONS II**

<u>Short Name</u>	<u>Course Code</u>
<b>PLTW MI II</b>	<b>077808</b>

This is the second of two courses. Students must have taken Medical Interventions I in order to take this course. Due to the nature of PLTW project based course design this yearlong course is divided into two semesters for course coding and reporting. It is up to the teacher discretion where semester break occurs in individual classrooms.

Students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options; and prevail when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics. Classroom and laboratory activities are supplemented through health science experiences and leadership programs and activities.

Teacher/Instructor is required to successfully complete PLTW teacher professional development in order to teach this course.

***Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:***

Recommended Level: Grades 10-11  
Career Cluster: Health Sciences

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BIOLOGY	1303
FAMILY/CONSMR SCIENCE	0903
HEALTH SCIENCES	0700

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<b>HEALTH SCIENCES</b>
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**PLTW BIOMEDICAL INNOVATION I**

Short Name

Course Code

**PLTW BMI I**

**077809**

This is the first of two courses. Student must take this course in order to take Biomedical Innovation II. Due to the nature of PLTW project based course design this yearlong course is divided into two semesters for course coding and reporting. It is up to the teacher discretion where semester break occurs in individual classrooms.

In this capstone course of the PLTW Biomedical Science sequence, students build on the knowledge and skills gain from previous courses to design innovation solutions for the most pressing health challenges of the 21st century. Students address topics ranging from public health and biomedical engineering to clinical medicine and physiology. They have the opportunity to work on an independent design project with a mentor or advisor from a university, medical facility, or research institution. Classroom and laboratory activities are supplemented through health science experiences and leadership programs and activities.

Teacher/Instructor is required to successfully complete PLTW teacher professional development in order to teach this course.

***Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:***

Recommended Level: Grades 12

Career Cluster: Health Sciences

Endorsement Name

Endorsement Number

BIOLOGY

1303

FAMILY/CONSMR SCIENCE

0903

HEALTH SCIENCES

0700

**PLTW BIOMEDICAL INNOVATION II**

Short Name

Course Code

**PLTW BMIII**

**077810**

This is the second of two courses. Student must have taken Biomedical Innovation I in order to take this class. Due to the nature of PLTW project based course design this yearlong course is divided into two semesters for course coding and reporting. It is up to the teacher discretion where semester break occurs in individual classrooms.

In this capstone course of the PLTW Biomedical Science sequence, students build on the knowledge and skills gain from previous courses to design innovation solutions for the most pressing health challenges of the 21st century. Students address topics ranging from public health and biomedical engineering to clinical medicine and physiology. They have the opportunity to work on an independent design project with a mentor or advisor from a university, medical facility, or research institution. Classroom and laboratory activities are supplemented through health science experiences and leadership programs and activities.

Teacher/Instructor is required to successfully complete PLTW teacher professional development in order to teach this course.

***Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:***

Recommended Level: Grades 12

Career Cluster: Health Sciences

Endorsement Name

Endorsement Number

BIOLOGY

1303

FAMILY/CONSMR SCIENCE

0903

HEALTH SCIENCES

0700

**HEALTH SCIENCES****HEALTH INFORMATION MANAGEMENT AND ETHICS**Short NameCourse Code**HE ITMA ET****077812**

This course establishes a foundation that is necessary to understand and investigate the field of Health Information Management and Ethics. Legal relationships of physicians and patients, management of communications, contractual agreements, professional liability, malpractice, medical practice acts, and biotechnical issues will be covered with emphasis placed on legal terms, professional attitudes, and the principles of basic concepts of ethics involved in providing medical services.

This course may be available for dual credit at a postsecondary institution. Classroom and laboratory activities are supplemented through health science experiences and leadership programs and activities.

Recommended Level: Grades 10-12

Career Cluster: Health Sciences

**Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:**

<u>Endorsement Name</u>	<u>Endorsement Number</u>
FAMILY/CONSMR SCIENCE	0903
HEALTH SCIENCES	0700
SOCIAL SCIENCE	1501

**ALLIED HEALTH AND MEDICINE**Short NameCourse Code**ALL HEALTH****077900**

This class will give student practical application at a clinical site or simulated experience. These experiences can occur in a variety of locations included classroom/lab and availability of community resources as determined by the instructor. The experiences should be designed to enhance and supplement the students' knowledge and skill in allied health. The class also includes research for a professional career of interest documented by a professional portfolio.

Classroom and laboratory activities are supplemented through health science experiences and leadership programs and activities.

Recommended Level: Grades 11-12

Career Cluster: Health Sciences

**Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:**

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BIOLOGY	1303
HEALTH & PHYS EDUC	2304
HEALTH EDUCATION	0801
HEALTH SCIENCES	0700
SCIENCE	1301

<b>HEALTH SCIENCES</b>
------------------------

**HEALTH SCIENCES, OTHER**

Short Name

Course Code

**HS OTHER**

**077930**

Health Sciences courses not listed or classifiable under the above codes, including independent study courses. This would include classes designated for preparation for a specific pathway in Therapeutic Services, Diagnostic Services, Health Information, Health Support Services, Health Sciences, and/or Health Care Sciences. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Health Sciences

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BIOLOGY	1303
FAMILY/CONSMR SCIENCE	0903
HEALTH & PHYS EDUC	2304
HEALTH EDUCATION	0801
HEALTH SCIENCES	0700
SCIENCE	1301

**HEALTH SCIENCES, OTHER**

Short Name

Course Code

**HS OTHER**

**077931**

Health Sciences courses not listed or classifiable under the above codes, including independent study courses. This would include classes designated for preparation for a specific pathway in Therapeutic Services, Diagnostic Services, Health Information, Health Support Services, Health Sciences, and/or Health Care Sciences. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Health Sciences

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BIOLOGY	1303
FAMILY/CONSMR SCIENCE	0903
HEALTH & PHYS EDUC	2304
HEALTH EDUCATION	0801
HEALTH SCIENCES	0700
SCIENCE	1301

<b>HEALTH SCIENCES</b>
------------------------

**HEALTH SCIENCES, OTHER**

Short Name

Course Code

**HS OTHER**

**077932**

Health Sciences courses not listed or classifiable under the above codes, including independent study courses. This would include classes designated for preparation for a specific pathway in Therapeutic Services, Diagnostic Services, Health Information, Health Support Services, Health Sciences, and/or Health Care Sciences. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Health Sciences

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BIOLOGY	1303
FAMILY/CONSMR SCIENCE	0903
HEALTH & PHYS EDUC	2304
HEALTH EDUCATION	0801
HEALTH SCIENCES	0700
SCIENCE	1301

**HEALTH SCIENCES, OTHER**

Short Name

Course Code

**HS OTHER**

**077932**

Health Sciences courses not listed or classifiable under the above codes, including independent study courses. This would include classes designated for preparation for a specific pathway in Therapeutic Services, Diagnostic Services, Health Information, Health Support Services, Health Sciences, and/or Health Care Sciences. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Health Sciences

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BIOLOGY	1303
FAMILY/CONSMR SCIENCE	0903
HEALTH & PHYS EDUC	2304
HEALTH EDUCATION	0801
HEALTH SCIENCES	0700
SCIENCE	1301

**HEALTH SCIENCES**

**HEALTH SCIENCES, OTHER**

Short Name

Course Code

**HS OTHER**

**077934**

Health Sciences courses not listed or classifiable under the above codes, including independent study courses. This would include classes designated for preparation for a specific pathway in Therapeutic Services, Diagnostic Services, Health Information, Health Support Services, Health Sciences, and/or Health Care Sciences. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Health Sciences

***Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:***

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BIOLOGY	1303
FAMILY/CONSUMER SCIENCE	0903
HEALTH & PHYS EDUC	2304
HEALTH EDUCATION	0801
HEALTH SCIENCES	0700
SCIENCE	1301

<b>HOSPITALITY AND TOURISM</b>
--------------------------------

**HOSPITALITY AND TOURISM**

Short Name

Course Code

**HOSP TOUR**

**370010**

Hospitality and Tourism provides the student with an understanding of one of the largest industries in the world. Specific applications include the evolution of the industry, food and beverage, lodging, international and domestic travel, business operations, and hospitality and tourism career exploration.

Recommended Level: Grades 9-12

Career Cluster: Hospitality and Tourism

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BUSINESS, MARKETING, INFO TECH	0304
FAMILY/CONSMR SCIENCE	0903

**CULINARY SKILLS 1**

Short Name

Course Code

**CULINARY1**

**370021**

This course is designed to provide students with curriculum which is focused on the foodservice industry and provides training in workplace and culinary skills, food safety and sanitation, interpersonal and communication skills, as well as an exposure to the areas of restaurant management and career exploration.

Recommended Level: Grades 9-12

Career Cluster: Hospitality and Tourism

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
FAMILY/CONSMR SCIENCE	0903

**CULINARY SKILLS 2**

Short Name

Course Code

**CULINARY2**

**370022**

This course is designed to provide students with an advanced curriculum which is focused on the foodservice industry and provides training in workplace and culinary skills, interpersonal and communication skills, as well as an exposure to the areas of restaurant management and career exploration. ServSafe Certification may be available at this level through the National Restaurant Association Educational Foundation.

Recommended Level: Grades 9-12

Career Cluster: Hospitality and Tourism

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
FAMILY/CONSMR SCIENCE	0903

<b>HOSPITALITY AND TOURISM</b>
--------------------------------

**PROSTART 1**

<u>Short Name</u>	<u>Course Code</u>
<b>PROSTART1</b>	<b>370030</b>

This foundational course is an industry-driven curriculum that prepares students for careers in the restaurant and foodservice management industry. This course will focus on the following topics: career paths, safety and sanitation, industry standards, food methods and techniques, food service management, and customer services.

Recommended Level: Grades 9-12  
 Career Cluster: Hospitality and Tourism

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
FAMILY/CONSMR SCIENCE	0903

**PROSTART 2**

<u>Short Name</u>	<u>Course Code</u>
<b>PROSTART2</b>	<b>370031</b>

This course is designed to provide students with an industry-driven curriculum providing real-life opportunities and the application of practical skills encompassing culinary techniques and management skills.

Recommended Level: Grades 9-12  
 Career Cluster: Hospitality and Tourism

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
FAMILY/CONSMR SCIENCE	0903

**HOSPITALITY AND TOURISM, OTHER**

<u>Short Name</u>	<u>Course Code</u>
<b>HOSPOTH</b>	<b>379930</b>

Courses not otherwise listed. Using codes 379930 through 379934 means you can add five "other" courses by using one code for each one of the give courses. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12  
 Career Cluster: Hospitality and Tourism

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BUSINESS, MARKETING, INFO TECH	0304
FAMILY/CONSMR SCIENCE	0903

<b>HOSPITALITY AND TOURISM</b>
--------------------------------

**HOSPITALITY AND TOURISM, OTHER**

<u>Short Name</u>	<u>Course Code</u>
<b>HOSPTOTH</b>	<b>379931</b>

Courses not otherwise listed. Using codes 379930 through 379934 means you can add five "other" courses by using one code for each one of the give courses. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Hospitality and Tourism

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BUSINESS, MARKETING, INFO TECH	0304
FAMLY/CONSMR SCIENCE	0903

**HOSPITALITY AND TOURISM, OTHER**

<u>Short Name</u>	<u>Course Code</u>
<b>HOSPTOTH</b>	<b>379932</b>

Courses not otherwise listed. Using codes 379930 through 379934 means you can add five "other" courses by using one code for each one of the give courses. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Hospitality and Tourism

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BUSINESS, MARKETING, INFO TECH	0304
FAMLY/CONSMR SCIENCE	0903

**HOSPITALITY AND TOURISM, OTHER**

<u>Short Name</u>	<u>Course Code</u>
<b>HOSPTOTH</b>	<b>379933</b>

Courses not otherwise listed. Using codes 379930 through 379934 means you can add five "other" courses by using one code for each one of the give courses. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Hospitality and Tourism

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BUSINESS, MARKETING, INFO TECH	0304
FAMLY/CONSMR SCIENCE	0903

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<b>HOSPITALITY AND TOURISM</b>
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**HOSPITALITY AND TOURISM, OTHER**

Short Name

Course Code

**HOSPOTH**

**379934**

Courses not otherwise listed. Using codes 379930 through 379934 means you can add five "other" courses by using one code for each one of the give courses. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Hospitality and Tourism

*Clearing Endorsement - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

BUSINESS, MARKETING, INFO TECH

0304

FAMILY/CONSMR SCIENCE

0903

<b>HUMAN SERVICES/FCS</b>
---------------------------

**FAMILY AND CONSUMER SCIENCES 6**

Short Name  
**FACS 6**

Course Code  
**090005**

This is a course designed with the introductory concepts of Family and Consumer Sciences in mind. Students will develop their knowledge of family living, decision making, nutrition, and consumer practices.

Recommended Level: Middle/Junior High

Career Cluster: Human Sciences and Education/Family and Consumer Sciences

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
FAMILY/CONSUMER SCIENCE	0903
MIDDLE GR/FAMILY & CONSUMER	1813

**FAMILY AND CONSUMER SCIENCES 7**

Short Name  
**FACS 7**

Course Code  
**090006**

This intermediate course is designed to extend learning of Family and Consumer Sciences concepts. Student will develop their knowledge of family living, decision making, nutrition and wellness, independent living, and consumer practices.

Recommended Level: Middle/Junior High

Career Cluster: Human Sciences and Education/Family and Consumer Sciences

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
FAMILY/CONSUMER SCIENCE	0903
MIDDLE GR/FAMILY & CONSUMER	1813

**FAMILY AND CONSUMER SCIENCES 8**

Short Name  
**FACS 8**

Course Code  
**090007**

This Family and Consumer Sciences advanced course will develop students knowledge and skills in areas of relationships, family living, team work and conflict management, nutrition and wellness, consumer practices, and independent living.

Recommended Level: Middle/Junior High

Career Cluster: Human Sciences and Education/Family and Consumer Sciences

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
FAMILY/CONSUMER SCIENCE	0903
MIDDLE GR/FAMILY & CONSUMER	1813

<b>HUMAN SERVICES/FCS</b>
---------------------------

**INTRODUCTION TO HUMAN SCIENCE/FCS**

<u>Short Name</u>	<u>Course Code</u>
<b>INT HUMAN</b>	<b>090101</b>

This course is intended to enable students to have a broad scope of experiences that will provide an overview and fundamental knowledge and essential skills of Human Science with a foundation of, but not limited to family and consumer sciences. Students will explore career possibilities and develop a personal learning plan. Students will practice basic life and career readiness skills and learn to apply them to personal life situations.

Recommended Level - Grades 9 -10

Career Cluster - Human Services

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
FAMILY/CONSUMER SCIENCE	0903

**TEXTILES, CONSTRUCTION AND DESIGN**

<u>Short Name</u>	<u>Course Code</u>
<b>TEXTILES</b>	<b>090103</b>

This course provides instruction in social, psychological and historical aspects of clothing and textiles. Textile and apparel design, selection, construction, maintenance and alteration of textile products will be analyzed and taught. This course integrates knowledge, skills, and practices required for careers in textile, scientific research and fashion and marketing.

Recommended Level: Grades 10-12

Career Cluster: Human Services

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
FAMILY/CONSUMER SCIENCE	0903

**LIFE AND CAREER READINESS**

<u>Short Name</u>	<u>Course Code</u>
<b>L/C READI</b>	<b>090104</b>

This course is designed to help students learn to manage issues in everyday living, prepare for personal life and career responsibilities and develop employability skills. Participation in this course provides a catalyst to greater self-awareness, enhanced relationships, improved cultural competencies and increased control over choosing direction for one's own life and career.

Recommended Level: Grade 12

Career Cluster: Human Services

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
FAMILY/CONSUMER SCIENCE	0903

<b>HUMAN SERVICES/FCS</b>
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**HUMAN FOOD, NUTRITION & WELLNESS**

<u>Short Name</u>	<u>Course Code</u>
<b>NUTRI FOOD</b>	<b>090107</b>

This course is designed to provide students with the base foundation knowledge of food selection and preparation needed to successfully fuel the human body through consumption of food and resulting food energy. With a beginning foundation of nutrition and food science, students will learn basic preparation skills, the reason behind the reactions of foods and the short-term and long-term wellness consequences as a result of nutritional intake, and exposure to careers related to the food industry.

Recommended Level: Grades 10-12

Career Cluster: Human Services

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
FAMILY/CONSUMER SCIENCE	0903

**ADVANCED HUMAN FOOD, NUTRITION & WELLNESS**

<u>Short Name</u>	<u>Course Code</u>
<b>ADV HFNW</b>	<b>090108</b>

This course is designed to provide and prepare students with the advanced knowledge needed to properly and efficiently fuel the human body through food selection, storage and preparation methods. Students will study foods using advanced project based nutritional and food science learning methods. Applying the reactions of foods in the short-term and long-term consequences of over all human wellness as a result of nutritional intake through the foods they prepare, consume, and exposure to the business of food and food production.

Recommended Level: Grades 11-12

Career Cluster: Human Services

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
FAMILY/CONSUMER SCIENCE	0903

**HOUSING AND INTERIOR DESIGN**

<u>Short Name</u>	<u>Course Code</u>
<b>HOUSING</b>	<b>090109</b>

This course provides instruction in the physical, physiological and social influences of housing styles and options; exterior and interior design; selection, use and care of home furnishings and equipment; use of available resources for achieving improved living space to meet individual and family needs; and exposure to careers related to housing and interior design.

Recommended Level: Grades 10-12

Career Cluster: Human Services

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
FAMILY/CONSUMER SCIENCE	0903

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<b>HUMAN SERVICES/FCS</b>
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**FOOD SCIENCE**

Short Name

Course Code

**FOOD SCI**

**090113**

Instruction which provides students with an understanding of the food science industry, food packaging/labeling, sensory evaluation of foods, marketing food products, constituents of foods, nutritive aspects of food constituents, operation of food industry, food microbiology, food processing and food science applications, and, exposure to careers related to food science.

Recommended Level: Grades 10-12

Career Cluster: Human Services

*Clearing Endorsement - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100
FAMILY/CONSUMER SCIENCE	0903

**RELATIONSHIPS**

Short Name

Course Code

**RELATION**

**090116**

The course includes the study of interpersonal relationships and the effect of these relationships on the well-being of individuals, families, work and society. The course includes concepts such as effective communication, establishing and maintaining relationships, diverse family systems, characteristics of personal development and the impact of relationships on personal and career success.

Recommended Level: Grades 9-12

Career Cluster: Human Services

*Clearing Endorsement - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
FAMILY/CONSUMER SCIENCE	0903

**PARENTING DECISIONS**

Short Name

Course Code

**PARENTING**

**090117**

Students will evaluate the effects of parenting roles and responsibilities on the well-being of individuals and families. In this course students will explain the following: influences on parenting, decisions to parent, family planning, conception, prenatal development, healthy pregnancy, birth, care of the newborn, support services for parents, supporting the physical, emotional, intellectual, and social development of the newborn, parenting theories, and family adjustment to parenthood.

Recommended Level: Grades 10-12

Career Cluster: Human Services

*Clearing Endorsement - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
FAMILY/CONSUMER SCIENCE	0903

<b>HUMAN SERVICES/FCS</b>
---------------------------

**CHILD DEVELOPMENT**

<u>Short Name</u>	<u>Course Code</u>
<b>CHILD DEV</b>	<b>090119</b>

This course integrates knowledge, skills and practices necessary for nurturing the growth and development of children. The study of the biological, psychological and social development factors as related to the development of young children will be studied in addition to the parenting and child care/education practices that maximize human growth and development.

Recommended Level: Grades 10-12

Career Cluster: Human Services

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
FAMILY/CONSMR SCIENCE	0903

**FASHION DESIGN AND MARKETING**

<u>Short Name</u>	<u>Course Code</u>
<b>FASHION</b>	<b>090206</b>

Fashion Design explores the evolving field of the clothing we wear and why we wear it. Students will examine fashion design through historical and current frameworks, consider the process of a design from concept to consumer purchase, and identify key components of fashion pieces that distinguish it from others.

Recommended Level: Grades 10-12

Career Cluster: Human Services

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
FAMILY/CONSMR SCIENCE	0903

**THE BUSINESS OF TEXTILES**

<u>Short Name</u>	<u>Course Code</u>
<b>AD TEXTILE</b>	<b>090207</b>

This course will bring together the parts of knowledge that emphasizes the textiles and bio-fibers, textile production and issues concerning the global textile industry. Students will be required to demonstrate that they can combine concepts to build new ideas for new situations. This course is designed for students interested in careers in the areas but not limited to sales, research or management in the textile industry.

Recommended Level: Grades 11-12

Career Cluster: Human Services

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
FAMILY/CONSMR SCIENCE	0903

<b>HUMAN SERVICES/FCS</b>
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**LEADERSHIP AND ETHICS IN HUMAN SERVICES**

<u>Short Name</u>	<u>Course Code</u>
<b>LEADER HS</b>	<b>090208</b>

This course is designed to provide a background of leadership styles and information on the necessary leadership skills including collaboration, ethics and teamwork. The course is assessed with a real-life opportunity to demonstrate one's own leadership style through a practical, personal experience.

Recommended Level: 9-12 grade

Career Cluster: Human Services

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
FAMILY/CONSUMER SCIENCE	0903

**CONSUMER ECONOMICS**

<u>Short Name</u>	<u>Course Code</u>
<b>CONECON</b>	<b>090209</b>

Study directly focuses on students learning the life readiness skills needed to evaluate and implement best management practices related to human, economic and environmental resources. This course of study includes personal and family financial literacy, consumer mathematics and life/work literacy that contribute to the overall wellness and functionality of today's individual.

Recommended Level: Grades 11-12

Career Cluster: Human Services

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
FAMILY/CONSUMER SCIENCE	0903

**HUMAN SERVICES/FCS, OTHER**

<u>Short Name</u>	<u>Course Code</u>
<b>HSR OTH</b>	<b>099930</b>

Human Services and Resources courses not otherwise listed or classified. May include Technology and Living and Home Management and other courses with content in Family and Consumer Sciences; Human Services; Education and Training; Law, Public Safety and Security, and/or Government and Public Administration. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Human Services

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
FAMILY/CONSUMER SCIENCE	0903

<b>HUMAN SERVICES/FCS</b>
---------------------------

**HUMAN SERVICES/FCS, OTHER**

Short Name

Course Code

**HSR OTH**

**099931**

Human Services and Resources courses not otherwise listed or classified. May include Technology and Living and Home Management and other courses with content in Family and Consumer Sciences; Human Services; Education and Training; Law, Public Safety and Security, and/or Government and Public Administration. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Human Services

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

FAMLY/CONSMR SCIENCE

0903

**HUMAN SERVICES/FCS, OTHER**

Short Name

Course Code

**HSR OTH**

**099932**

Human Services and Resources courses not otherwise listed or classified. May include Technology and Living and Home Management and other courses with content in Family and Consumer Sciences; Human Services; Education and Training; Law, Public Safety and Security, and/or Government and Public Administration. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Human Services

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

FAMLY/CONSMR SCIENCE

0903

**HUMAN SERVICES/FCS, OTHER**

Short Name

Course Code

**HSR OTH**

**099933**

Human Services and Resources courses not otherwise listed or classified. May include Technology and Living and Home Management and other courses with content in Family and Consumer Sciences; Human Services; Education and Training; Law, Public Safety and Security, and/or Government and Public Administration. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Human Services

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

FAMLY/CONSMR SCIENCE

0903

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<b>HUMAN SERVICES/FCS</b>
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**HUMAN SERVICES/FCS, OTHER**

Short Name

Course Code

**HSR OTH**

**099934**

Human Services and Resources courses not otherwise listed or classified. May include Technology and Living and Home Management and other courses with content in Family and Consumer Sciences; Human Services; Education and Training; Law, Public Safety and Security, and/or Government and Public Administration. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Human Services

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

FAMILY/CONSMR SCIENCE

0903

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**LAW, PUBLIC SAFETY AND SECURITY**

**FOUNDATIONS OF LAW, PUBLIC SAFETY, CORRECTIONS &  
SECURITY**

Short Name  
**LAW**                      Course Code  
**390010**

An exploration of the five pathways of this career cluster: correction services, emergency and fire management services, law enforcement services, legal services and security and protective services, including exposure to careers within all pathways.

Recommended Level: Grades 10-12

Career Cluster: Law, Public Safety and Security

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
OTHER ENDORSEMENT	8888

**INTRODUCTION TO CRIMINAL JUSTICE**

Short Name  
**INCRIM JST**                      Course Code  
**390015**

An overview of the history, development and philosophies for crime control and the role of law enforcement within a democratic society. Topics would include an examination of the criminal justice system with an emphasis on the police, the courts (prosecution and defense) and the correctional agencies, and exposure to careers related to criminal justice.

Recommended Level: Grades 10-12

Career Cluster: Law, Public Safety and Security

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
Other Endorsement	8888

**INTRODUCTION TO FIRE & EMERGENCY SERVICES**

Short Name  
**FIRE SERV**                      Course Code  
**390020**

An introduction to fire prevention and control including the chemistry of combustion, factors that influence fire and safety procedures. May also introduce students to the organization and regulations of fire departments, emergency medical procedures and fire investigation techniques.

Recommended Level: Grades 10-12

Career Cluster: Law, Public Safety and Security

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
OTHER ENDORSEMENT	8888

**LAW, PUBLIC SAFETY AND SECURITY**

**COURTS & JUDICIAL PROCESS**

Short Name

Course Code

**COURTS**

**390025**

Examines legal aspects of investigative and arrest as well as rule governing the admissibility of evidence in court. It focuses primarily on police and correctional due process, application of the law, and civil liability concerns. Topics include search and seizure, arrest and interrogation, revocation and probation and parole, probable cause and other timely issues.

Recommended Level: Grades 10-12

Career Cluster: Law, Public Safety and Security

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

Other Endorsement

8888

**POLICE AND SOCIETY**

Short Name

Course Code

**POLICE**

**390026**

This course examines the role of the police in relationship to law enforcement and American society. Topics include, but are not limited to the role and function of police, the nature of police organizations and police work, and the patterns of police-community relations.

Recommended Level: Grades 9-12

Career Cluster: Law, Public Safety and Security

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

OTHER ENDORSEMENT

8888

**LAW, PUBLIC SAFETY AND SECURITY, OTHER**

Short Name

Course Code

**LPSS OTHER**

**399930**

Courses not otherwise listed. Using codes 399930 through 399934 means you can add five "other" courses by using one code for each one of the five courses. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Law, Public Safety and Security

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

Other Endorsement

8888

**LAW, PUBLIC SAFETY AND SECURITY**

**LAW, PUBLIC SAFETY AND SECURITY, OTHER**

Short Name

Course Code

**LPSS OTHER**

**399931**

Courses not otherwise listed. Using codes 399930 through 399934 means you can add five "other" courses by using one code for each one of the five courses. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Law, Public Safety and Security

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

OTHER ENDORSEMENT

8888

**LAW, PUBLIC SAFETY AND SECURITY, OTHER**

Short Name

Course Code

**LPSS OTHER**

**399932**

Courses not otherwise listed. Using codes 399930 through 399934 means you can add five "other" courses by using one code for each one of the five courses. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Law, Public Safety and Security

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

Other Endorsement

8888

**LAW, PUBLIC SAFETY AND SECURITY, OTHER**

Short Name

Course Code

**LPSS OTHER**

**399933**

Courses not otherwise listed. Using codes 399930 through 399934 means you can add five "other" courses by using one code for each one of the five courses. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Law, Public Safety and Security

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

Endorsement Name

Endorsement Number

OTHER ENDORSEMENT

8888

<b>LAW, PUBLIC SAFETY AND SECURITY</b>
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<b>LAW, PUBLIC SAFETY AND SECURITY, OTHER</b>	<u>Short Name</u> <b>LPSS OTHER</b>	<u>Course Code</u> <b>399934</b>
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Courses not otherwise listed. Using codes 399930 through 399934 means you can add five "other" courses by using one code for each one of the five courses. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Law, Public Safety and Security

*Clearing Endorsement - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
Other Endorsement	8888

<b>SKILLED AND TECHNICAL SCIENCES</b>
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**INTRODUCTION TO THE BUILT ENVIRONMENT**

<u>Short Name</u>	<u>Course Code</u>
<b>INTBLD ENV</b>	<b>100100</b>

This course provides the skills and technical knowledge for a beginning student in areas of industry, safety, material, equipment and process understanding. The student will develop awareness construction, design, and manufacturing areas. This course serves as an introductory course to material processing and drafting.

Recommended Level: Grades 9-12

Career Cluster: Architecture and Construction and Manufacturing

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INDUSTRIAL TECH EDUCATION	1000
SKILLED & TECHNICAL SCIENCE ED	1700

**PRINCIPLES OF CONSTRUCTION TECHNOLOGY**

<u>Short Name</u>	<u>Course Code</u>
<b>PRIN CONST</b>	<b>100110</b>

This course provides an overview of the total construction process. Students will develop problem-solving and critical-thinking skills by identifying the relationship between resources and requirements of a project/problem to accomplish realistic planning.

Recommended Level: Grades 9-12

Career Cluster: Architecture and Construction

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INDUSTRIAL TECH EDUCATION	1000
SKILLED & TECHNICAL SCIENCE ED	1700

**ADVANCED CONSTRUCTION TECHNOLOGY**

<u>Short Name</u>	<u>Course Code</u>
<b>ADV CONST</b>	<b>100120</b>

This course is designed for the student pursuing a career as a construction professional. Technical skills are combined with planning and management topics to prepare the student for all stages of a project. This course explores opportunities and career pathways within the residential, commercial, and industrial sectors, and walks the student through the planning, execution, and reporting of a project.

Recommended Level: Grades 11-12

Career Cluster: Architecture and Construction

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INDUSTRIAL TECH EDUCATION	1000
SKILLED & TECHNICAL SCIENCE ED	1700

**SKILLED AND TECHNICAL SCIENCES**

**INTRODUCTION TO ARCHITECTURE AND CONSTRUCTION**

Short Name  
**ARCH/CONST**

Course Code  
**100130**

This course builds the skills necessary to understand what is being communicated through drawings and documents, and in turn, convey ideas, duties, and tasks to others in a form representing the industry. Students will use and follow industry specific verbal and visual skills to accomplish workplace/jobsite communications. Students will also integrate structural systems, environmental systems, safety systems, building envelope systems, and building service systems to design modern buildings. Students will review traditional project phases and various roles within them to plan for and implement phases within a project. Students will develop preliminary drawings in computer generated plans that will be used in design and pre-construction. Computer-aided drafting/design (CADD) may be used.

Recommended Level: Grades 9-12

Career Cluster: Architecture and Construction

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INDUSTRIAL TECH EDUCATION	1000
SKILLED & TECHNICAL SCIENCE ED	1700

**COMPUTER AIDED DRAFTING**

Short Name  
**CAD**

Course Code  
**100140**

This course provides students with a broad introduction into Computer-Aided-Drafting (CAD). With hands-on exercises, assignments and projects, students gain the capability to use CAD to model projects and create and distribute industry-standard drawings.

Recommended Level: Grades 9-12

Career Cluster: Architecture and Construction

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INDUSTRIAL TECH EDUCATION	1000
SKILLED & TECHNICAL SCIENCE ED	1700

**APPLICATIONS IN DESGIN AND PRE-CONSTRUCTION**

Short Name  
**APPDESIGN**

Course Code  
**100141**

In this class, the students will create residential architectural working drawings, using CAD, necessary for a standard building permit. With hands-on exercises, assignments and projects, students gain the capability to use CAD to model a house project and create and distribute industry-standard drawings.

Recommended Level: Grades 11-12

Career Cluster: Architecture and Construction

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INDUSTRIAL TECH EDUCATION	1000
SKILLED & TECHNICAL SCIENCE ED	1700

**SKILLED AND TECHNICAL SCIENCES**

**PLTW PRINCIPLES OF ENGINEERING**

Short Name  
**PLTW P/ENG**

Course Code  
**100160**

Principles of Engineering (POE) is a Project Lead The Way survey course of engineering. The course exposes students to some of the major concepts that they will encounter in a postsecondary engineering course of study. Students have the opportunity to investigate engineering and high tech career. POE gives students the opportunity to develop skills and understanding of course concepts through activity-, project-, and problem-based (APPB) learning.

Teacher/Instructor is required to complete PLTW teacher professional development in order to teach this course.

Recommended Level: Grades 9-12

Career Cluster: Science, Technology, Engineering and Mathematics (STEM)

***Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:***

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INDUSTRIAL TECH EDUCATION	1000
MATHEMATICS	1100
PHYSICS	1308
SCIENCE	1301
SKILLED & TECHNICAL SCIENCE ED	1700

**PLTW INTRODUCTION TO ENGINEERING DESIGN**

Short Name  
**PLTW ENG**

Course Code  
**100161**

This course encourages students to use a problem-solving model to improve existing products and invent new ones. They learn how to apply this model to solve any problems, even outside of the classroom. Students use sophisticated three-dimension modeling software to communicate the details of these products. Emphasis is placed on analyzing potential solutions and communicating ideas to others.

Teacher/Instructor is required to complete PLTW teacher professional development in order to teach this course.

Recommended Level: Grades 9-12

Career Cluster: Science, Technology, Engineering and Mathematics (STEM)

***Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:***

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INDUSTRIAL TECH EDUCATION	1000
MATHEMATICS	1100
PHYSICS	1308
SCIENCE	1301
SKILLED & TECHNICAL SCIENCE ED	1700

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<b>SKILLED AND TECHNICAL SCIENCES</b>
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**PLTW CIVIL ENGINEERING AND ARCHITECTURE**

<u>Short Name</u>	<u>Course Code</u>
<b>PLTW CIVIL</b>	<b>100162</b>

Civil Engineering and Architecture is a Project Lead The Way course that includes the study of the design and construction of residential and commercial building projects. The course includes an introduction to many of the varied factors involved in building design and construction including building components and systems, structural design, storm water management, site design, utilities and services, cost estimation, energy efficiency, and careers in the design and construction industry.

Teacher/Instructor is required to complete PLTW teacher professional development in order to teach this course.

Recommended Level: Grades 10-12

Career Cluster: Science, Technology, Engineering and Mathematics (STEM)

***Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:***

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INDUSTRIAL TECH EDUCATION	1000
MATHEMATICS	1100
PHYSICS	1308
SCIENCE	1301
SKILLED & TECHNICAL SCIENCE ED	1700

**PLTW ENGINEERING DESIGN AND DEVELOPMENT**

<u>Short Name</u>	<u>Course Code</u>
<b>PLTW ENG D</b>	<b>100163</b>

Engineering Design and Development (EDD) is the capstone course in in the Project Lead The Way high school engineering program. It is an engineering research course in which students work in teams to design and develop an original solution to a valid open-ended technical problem by applying the engineering design process. The course applies and concurrently develops secondary level knowledge and skills in mathematics, science, and technology.

Teacher/Instructor is required to complete PLTW teacher professional development in order to teach this course.

Recommended Level: 10-12

Career Cluster: Science, Technology, Engineering and Mathematics (STEM)

***Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:***

<u>Endorsement Name</u>	<u>Endorsement Number</u>
EARTH AND SPACE SCIENCE	1305
INDUSTRIAL TECH EDUCATION	1000
MATHEMATICS	1100
PHYSICS	1308
SCIENCE	1301
SKILLED & TECHNICAL SCIENCE ED	1700

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<b>SKILLED AND TECHNICAL SCIENCES</b>
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**PLTW AEROSPACE ENGINEERING**

Short Name

Course Code

**PLTW AERO**

**100164**

Aerospace Engineering (AE) is a Project Lead The Way course that includes the study of the engineering discipline which develops new technologies for use in aviation, defense systems, and space exploration. The course explores the evolution of flight, flight fundamentals, navigation and control, aerospace materials, propulsion, space travel, orbital mechanics, ergonomics, remotely operated systems and related careers. In addition the course presents alternative applications for aerospace engineering concepts.

Teacher/Instructor is required to complete PLTW teacher professional development in order to teach this course.

Recommended Level: Grades 10-12

Career Cluster: Science, Technology, Engineering and Mathematics (STEM)

***Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:***

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INDUSTRIAL TECH EDUCATION	1000
MATHEMATICS	1100
PHYSICS	1308
SCIENCE	1301
SKILLED & TECHNICAL SCIENCE ED	1700

**PLTW BIOTECHNICAL ENGINEERING**

Short Name

Course Code

**PLTW BIO**

**100165**

Biotechnical Engineering (BE) is a Project Lead The Way course designed to expose students to the diverse fields of biotechnology including biomedical engineering, biomolecular genetics, bioprocess engineering, and agricultural and environmental engineering. Lessons engage students in engineering design problems that can be accomplished in a high school setting related to biomechanics, cardiovascular engineering, genetic engineering, agricultural biotechnology tissue engineering, biomedical devices, human interface, bioprocesses, forensics, and bio-ethics. Students in this course will apply biological and engineering concepts to design materials and processes that directly measure, repair, improve, and extending living systems.

Teacher/Instructor is required to complete PLTW teacher professional development in order to teach this course.

Recommended Level: Grades 11-12

Career Cluster: Science, Technology, Engineering and Mathematics (STEM)

***Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:***

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BIOLOGY	1303
INDUSTRIAL TECH EDUCATION	1000
MATHEMATICS	1100
PHYSICS	1308
SCIENCE	1301
SKILLED & TECHNICAL SCIENCE ED	1700

<b>COURSE CODES AND CLEARING ENDORSEMENTS</b>	<b>Page 166</b>	<b>Revised June 2016</b>
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**SKILLED AND TECHNICAL SCIENCES**

**INTRODUCTION TO ELECTRONICS**

Short Name

Course Code

**INT ELECT**

**100401**

Electronics – Comprehensive courses provide a survey of the theory, terminology, equipment, and practical experience in the skills needed for careers in the electronic field as well as typically cover the theory of electricity. Course topics may include AC, DC, analog, and integrated circuitry and solid state and digital devices, amplifiers, and semiconductors. Skills covered involve the repair, maintenance, and building of electronic equipment such as radios, television sets, and industrial equipment.

Recommended Level: Grades 10-12

Career Cluster: Science, Technology, Engineering and Mathematics (STEM)

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INDUSTRIAL TECH EDUCATION	1000
SKILLED & TECHNICAL SCIENCE ED	1700

**ADVANCED ELECTRONICS**

Short Name

Course Code

**ADV ELECT**

**100402**

Advanced electronics theory and application. Circuitry diagnostics and the application and design of circuits using the principals of analog and digital electronics will be used.

Recommended Level: Grades 10-12

Career Cluster: Manufacturing

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INDUSTRIAL TECH EDUCATION	1000
SKILLED & TECHNICAL SCIENCE ED	1700

**SKILLED AND TECHNICAL SCIENCES**

**PLTW DIGITAL ELECTRONICS**

Short Name

Course Code

**PLTW DIG**

**100403**

Digital Electronics (DE) is a Project Lead The Way course designed for the study of electronic circuits that are used to process and control digital signals. In contrast to analog electronics, where information is represented by a continuously varying voltage, digital signals are represented by two discrete voltages or logic levels. This distinction allows for greater signal speed and storage capabilities and has revolutionized the world of electronics. Digital electronics is the foundation of all modern electronic devices such as cellular phones, MP3 players, laptop computers, digital cameras, high definition televisions, etc. The major focus of the DE course is to expose students to the design process of combinational and sequential logic design, teamwork, communication methods, engineering standards, and technical documentation.

Teacher/Instructor is required to complete PLTW teacher professional development in order to teach this course.

Recommended Level: Grades 10-12

Career Cluster: Science, Technology, Engineering, and Mathematics (STEM)

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INDUSTRIAL TECH EDUCATION	1000
MATHEMATICS	1100
PHYSICS	1308
SCIENCE	1301
SKILLED & TECHNICAL SCIENCE ED	1700

**ELECTRICITY**

Short Name

Course Code

**ELECTRIC**

**100405**

Comprehensive courses provide an overview of the theory, terminology, tools, and practical experience in the skills needed for a career in the electrical field. This course typically includes circuitry, safety, and the National Electrical Code. This course covers skills that are involved in building circuits, wiring residential, and commercial and/or industrial buildings. Installing lighting, power circuits, cables and estimating job costs may be included.

Recommended Level: Grades 9-12

Career Cluster: Architecture and Construction

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INDUSTRIAL TECH EDUCATION	1000
SKILLED & TECHNICAL SCIENCE ED	1700

**SKILLED AND TECHNICAL SCIENCES**

**ENERGY EXPLORATION**

Short Name

Course Code

**ENERGY**

**100406**

Energy is essential to all aspects of society. This course will provide a unique approach to understanding energy and learning about the many, varied career opportunities in this field. Students enrolled in this course will engage in the study of energy basics and fundamentals, the production and delivery of energy, and energy responsibilities and decisions.

Recommended Level: Grades 9-12

Career Cluster: Science, Technology, Engineering and Mathematics (STEM)

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INDUSTRIAL TECH EDUCATION	1000
SKILLED & TECHNICAL SCIENCE ED	1700

**ENERGY GENERATION AND DISTRIBUTION**

Short Name

Course Code

**ENGENDIST**

**100407**

Introduction course covering the history of electric and fluid power in the U.S. including deregulation, private and public utilities, and methods of commercial power generation including fossil fuels, nuclear power and renewable energy generation. Include overview of electrical transmission and distribution systems. System reliability and governance are covered.

Recommended Level: Grades 9-12

Career Cluster: Science, Technology, Engineering and Mathematics (STEM)

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INDUSTRIAL TECH EDUCATION	1000
SKILLED & TECHNICAL SCIENCE ED	1700

**GREEN ENERGY**

Short Name

Course Code

**GREENENG**

**100408**

This course will provide a unique approach to understanding alternative, or "green" energy and learning about the many, varied career opportunities in this field. Students enrolled in this course will engage in the study of alternative or "green" energy fundamentals and innovative energy exploration for the future. The focus of the course will center on the business and careers in the alternative, or "green" energy field with respect to the wind energy technology, renewable bio-fuels and energy efficient "green" building technology.

Recommended Level: Grades 9-12

Career Cluster: Science, Technology, Engineering and Mathematics (STEM)

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INDUSTRIAL TECH EDUCATION	1000
SKILLED & TECHNICAL SCIENCE ED	1700

<b>SKILLED AND TECHNICAL SCIENCES</b>
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**EXPLORING SKILLED AND TECHNICAL SCIENCE - 6TH GRADE**

Short Name  
**EXPLSTS6**

Course Code  
**100706**

In this course students will explore fundamentals in Skilled and Technical Sciences at the 6th grade level.

Course Standards : (Please list)

- Student will understand and accurately apply measurement.
- Students will know and model safe lab procedures and techniques.
- Students will be introduced to technical communications.
- Students will experience skills needed to complete a project.
- Student will explore career opportunities.

Recommended Level: Middle/Junior High

Career Cluster: Foundation, Career Development and Career Education Introductory Course

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INDUSTRIAL TECH EDUCATION	1000
MIDDLE GR/INDUSTRIAL TECH	1816
SKILLED & TECHNICAL SCIENCE ED	1700

**EXPLORING SKILLED AND TECHNICAL SCIENCE - 7TH GRADE**

Short Name  
**EXPLSTS7**

Course Code  
**100707**

In this course students will explore fundamentals in Skilled and Technical Sciences at the 7th grade level.

Course Standards : (Please list)

- Student will understand and accurately apply measurement.
- Students will know and model safe lab procedures and techniques.
- Students will be introduced to technical communications.
- Students will experience skills needed to complete a project.
- Student will explore career opportunities.

Recommended Level: Middle/Junior High

Career Cluster: Foundation, Career Development and Career Education Introductory Course

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INDUSTRIAL TECH EDUCATION	1000
MIDDLE GR/INDUSTRIAL TECH	1816
SKILLED & TECHNICAL SCIENCE ED	1700

<b>SKILLED AND TECHNICAL SCIENCES</b>
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<b>EXPLORING SKILLED AND TECHNICAL SCIENCE - 8TH GRADE</b>	<u>Short Name</u> <b>EXPLSTS8</b>	<u>Course Code</u> <b>100708</b>
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In this course students will explore fundamentals in Skilled and Technical Sciences at the 8th grade level.  
 Course Standards : (Please list)  
 Student will understand and accurately apply measurement.  
 Students will know and model safe lab procedures and techniques.  
 Students will be introduced to technical communications.  
 Students will recognize material types and properties.  
 Students will demonstrate material processing.  
 Students will select tools for the correct operation.  
 Student will explore career opportunities.  
 Recommended Level: Middle/Junior High  
 Career Cluster: Foundation, Career Development and Career Education Introductory Courses

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INDUSTRIAL TECH EDUCATION	1000
MIDDLE GR/INDUSTRIAL TECH	1816
SKILLED & TECHNICAL SCIENCE ED	1700

<b>MANUFACTURING - METALS</b>	<u>Short Name</u> <b>METAL WORK</b>	<u>Course Code</u> <b>101400</b>
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This is a beginning level course that introduces the student to basic knowledge and skills that are foundational to metals manufacturing. Safety, measuring, planning and production processes will be covered.  
  
 Recommended Level: Grades 9-12  
 Career Cluster: Manufacturing

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INDUSTRIAL TECH EDUCATION	1000
SKILLED & TECHNICAL SCIENCE ED	1700

<b>ADVANCED FABRICATION AND MANUFACTURING - METALS</b>	<u>Short Name</u> <b>MFG/ADMETL</b>	<u>Course Code</u> <b>101401</b>
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A study of the processes used by modern industry to manufacture consumer products, safety, measurement, planning , machining, fabrication processes, and finish processes will be included. Career opportunities will also be explored.  
  
 Recommended Level: Grades 11-12  
 Career Cluster: Manufacturing

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INDUSTRIAL TECH EDUCATION	1000
SKILLED & TECHNICAL SCIENCE ED	1700

**SKILLED AND TECHNICAL SCIENCES**

**INTRODUCTION TO ENERGY, POWER AND TRANSPORTATION SYSTEMS**

Short Name  
**INT TRANS**

Course Code  
**101600**

This introductory course will provide the students with entry level knowledge and skills for further study in the Transportation, Distribution and Logistics cluster. The six forms of energy, power transmission, and modes of transportation will be introduced with several activities. A special emphasis will be placed on basic electricity and electronic theory and operation. Measurement systems used in TDL will also be included in this foundation course.

Recommended Level: Grades 9-12

Career Cluster: Transportation, Distribution and Logistics

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INDUSTRIAL TECH EDUCATION	1000
SKILLED & TECHNICAL SCIENCE ED	1700

**EMERGING TECH IN TRANSPORTATION & LOGISTICS**

Short Name  
**EMTECHTL**

Course Code  
**101601**

Emerging Technologies in Transportation and Logistics is a course that will introduce students to the application of technologies in the transportation and logistics industries. These areas will include: trucking industry, railroad industry, aviation industry, shipping industry, and various current and emerging transportation and logistics technologies.

Recommended Level: Grades 9-12

Career Cluster: Transportation, Distribution and Logistics

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INDUSTRIAL TECH EDUCATION	1000
SKILLED & TECHNICAL SCIENCE ED	1700

**DISTRIBUTION AND LOGISTICS**

Short Name  
**DIST/LOG**

Course Code  
**101610**

Distribution and Logistics is a study of the acquisition, storage, use, packaging, transportation and distribution of materials and products. Topics covered include: product receiving and storage, order processing, packaging, shipping, inventory control, quality control, tracking operations, and material handling safety.

Recommended Level: Grades 9-12

Career Cluster: Transportation, Distribution and Logistics

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INDUSTRIAL TECH EDUCATION	1000
SKILLED & TECHNICAL SCIENCE ED	1700

**SKILLED AND TECHNICAL SCIENCES**

**TRANSPORTATION TECH SVCS & MAINT**

Short Name

Course Code

**TRTECSERV**

**101620**

This second level semester course will expand on the basic concepts and systems utilized in the Transportation Industry. Modes of transportation, forms of energy, and power transmission will be addressed along with sub-systems of internal combustion engines. Tools, equipment, fasteners, safety and career exploration will be included in the course.

Recommended Level: Grades 10-12

Career Cluster: Transportation, Distribution and Logistics

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INDUSTRIAL TECH EDUCATION	1000
SKILLED & TECHNICAL SCIENCE ED	1700

**AUTOMOTIVE & MOBILE EQUIP SERV & REPAIR**

Short Name

Course Code

**AUTOSERV**

**101630**

This capstone semester course in Automotive and Mobile Equipment Repair and Service will build upon the previous knowledge of skills from the Mobile Equipment Program of Study. Advanced diagnostic and repair procedure will be addressed in each of the major systems of engine repair, i.e. Ignition, fuel, cooling, lubrication, electronics, drive train, suspension & chassis, brakes, and engine performance.

Recommended Level: Grades 11-12

Career Cluster: Transportation, Distribution and Logistics

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INDUSTRIAL TECH EDUCATION	1000
SKILLED & TECHNICAL SCIENCE ED	1700

**AUTOMOTIVE BODY REPAIR AND REFINISHING**

Short Name

Course Code

**AUTOREPAIR**

**101640**

Students will explore and be exposed to: Safety in the automotive workplace, careers and history in the automotive workplace, identifying damage to the vehicle, identifying tools and equipment needed for the repair, dent repair techniques, filler matters, sanding and abrasive tools as well as painting and refinishing process and techniques.

Recommended Level: Grades 11-12

Career Cluster: Transportation, Distribution and Logistics

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INDUSTRIAL TECH EDUCATION	1000
SKILLED & TECHNICAL SCIENCE ED	1700

<b>SKILLED AND TECHNICAL SCIENCES</b>
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**BUSINESS LOGISTICS**

Short Name

Course Code

**BUSLOG**

**101650**

Distribution and Logistics is a study of the acquisition, storage, use, packaging, transportation and distribution of materials and products. Topics covered include: management of materials and physical distribution; transportation choices, regulation and rates; traffic management; product storage, warehousing, handling and packaging; inventory management; acquisition and production scheduling; order entry and processing; logistics systems design and operation; and international logistics.

Recommended Level: Grades 11-12

Career Cluster: Transportation, Distribution and Logistics

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
BUSINESS, MARKETING, INFO TECH	0304
INDUSTRIAL TECH EDUCATION	1000
SKILLED & TECHNICAL SCIENCE ED	1700

**INTRODUCTION TO MECHATRONICS**

Short Name

Course Code

**INTERMECH**

**101900**

This course prepares students for careers in manufacturing and for postsecondary education. The main focus is a core structure study in hydraulics, pneumatics, electrical, material testing, sensors, electric and pneumatic robot operations and an introduction to programmable logic controllers.

Recommended Level: Grades 9-12

Career Cluster: Manufacturing

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INDUSTRIAL TECH EDUCATION	1000
SKILLED & TECHNICAL SCIENCE ED	1700

<b>SKILLED AND TECHNICAL SCIENCES</b>
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**PLTW COMPUTER INTEGRATED MANUFACTURING**

<u>Short Name</u>	<u>Course Code</u>
<b>PLTW MFG</b>	<b>101901</b>

Computer Integrated Manufacturing (CIM) is a Project Lead The Way course designed to study manufacturing planning, integration and implementation of automation. The course explores manufacturing history. Individual processes, systems, and careers. In addition to technical concepts, the course incorporates finance, ethics, and engineering design. This reflects an integrated approach that leading manufacturers have adopted to improve safety, quality and efficiently.

Teacher/Instructor is required to complete PLTW teacher professional development in order to teach this course.

Recommended Level: Grades 9-12

Career Cluster: Science, Technology, Engineering & Mathematics (STEM)

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INDUSTRIAL TECH EDUCATION	1000
MATHEMATICS	1100
PHYSICS	1308
SCIENCE	1301
SKILLED & TECHNICAL SCIENCE ED	1700

**MANUFACTURING - WOODS**

<u>Short Name</u>	<u>Course Code</u>
<b>MFG/WOODS</b>	<b>101920</b>

This is a beginning level course in woods that introduces the student to basic knowledge and skills that are foundational to manufacturing. Safety, measuring, planning and production processes will be covered.

Recommended Level: Grades 9-11

Career Cluster: Manufacturing

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INDUSTRIAL TECH EDUCATION	1000
SKILLED & TECHNICAL SCIENCE ED	1700

<b>SKILLED AND TECHNICAL SCIENCES</b>
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**ADVANCED FABRICATION AND MANUFACTURING - WOODS**

Short Name  
**ADVFAB/WD**

Course Code  
**101921**

An advanced study of the processes used by modern industry using woods to manufacture consumer products. Safety, measurement, planning, machining, fabrication processes, and finish processes will be included. Career opportunities will also be explored.

Recommended Level: Grades 11-12

Career Cluster: Manufacturing

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INDUSTRIAL TECH EDUCATION	1000
SKILLED & TECHNICAL SCIENCE ED	1700

**MANUFACTURING - WELDING**

Short Name  
**WELD**

Course Code  
**101930**

This is a beginning level course that introduces the student to basic knowledge and skills that are foundational to welding manufacturing. Safety, measuring, planning and production processes will be covered.

Recommended Level: Grades 9-12

Career Cluster: Manufacturing

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100
INDUSTRIAL TECH EDUCATION	1000
SKILLED & TECHNICAL SCIENCE ED	1700

<b>SKILLED AND TECHNICAL SCIENCES</b>
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**ADVANCED FABRICATION AND MANUFACTURING - WELDING**

Short Name

Course Code

**AD WELD**

**101940**

A study of the processes used by modern industry to manufacture consumer products, safety, measurement, planning, machining, fabrication processes, and finish processes will be included. Career opportunities will also be explored.

Recommended Level: Grades 11-12

Career Cluster: Manufacturing

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
AGRICULTURE	0100
INDUSTRIAL TECH EDUCATION	1000
SKILLED & TECHNICAL SCIENCE ED	1700

**MANUFACTURING - PLASTICS**

Short Name

Course Code

**MFG/PLAST**

**101950**

This is a beginning level course that introduces the student to basic knowledge and skills that are foundational to plastic manufacturing. Safety, measuring, planning and production processes will be covered.

Recommended Level: Grades 9-12

Career Cluster: Manufacturing

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INDUSTRIAL TECH EDUCATION	1000
SKILLED & TECHNICAL SCIENCE ED	1700

**ADVANCED FABRICATION AND MANUFACTURING - PLASTICS**

Short Name

Course Code

**MFG/ADPLAS**

**101951**

A study of the processes used by modern industry to manufacture consumer products, safety, measurement, planning, machining, fabrication processes, and finish processes will be included. Career opportunities will also be explored.

Recommended Level: Grades 11-12

Career Cluster: Manufacturing

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INDUSTRIAL TECH EDUCATION	1000
SKILLED & TECHNICAL SCIENCE ED	1700

**SKILLED AND TECHNICAL SCIENCES**

**INTRODUCTION TO ENGINEERING**

Short Name

Course Code

**INTRO ENG**

**103191**

Introduction to Engineering (IE) is an entry level course that is appropriate for 9th or 10th grade students who are interested in design and engineering. The major focus is to expose students to design process, research and analysis, teamwork, communication methods, engineering standards, and technical documentation. IE gives students the opportunity to develop skills and understanding through activities, projects, and problem-based learning.

Recommended Level: Grades 9-10

Career Cluster: Science, Technology, Engineering and Math (STEMS)

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INDUSTRIAL TECH EDUCATION	1000
SKILLED & TECHNICAL SCIENCE ED	1700

**ENGINEERING CONCEPTS**

Short Name

Course Code

**ENG CONCEP**

**103192**

Engineering Concepts (EC) is a high school-level survey course of engineering. The course exposes students to some of the major concepts that they will encounter in a postsecondary engineering course of study. Students have an opportunity to investigate engineering and high tech career opportunities which gives students the opportunity to develop skills and understanding of course concepts through activity-, project-, and problem-based (APPB) learning.

Recommended Level: Grades 9-12

Career Cluster: Science, Technology, Engineering and Math (STEMS)

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INDUSTRIAL TECH EDUCATION	1000
SKILLED & TECHNICAL SCIENCE ED	1700

**ENGINEERING APPLICATIONS**

Short Name

Course Code

**ENG APPL**

**103193**

Engineering Applications is an engineering research course in which students work in teams to design and develop an original solution to a valid open-ended technical problem by applying the engineering design process. The course applies and concurrently develops secondary level knowledge and skills in mathematics, science, and technology. Utilizing the activity-project-problem-based (APPB) teaching and learning pedagogy, student will perform research to choose, validate, and justify a technical problem. After carefully defining the problem, teams of students will design, build, and test their solution. Finally, student teams will present and defend their original solution.

Recommended Level: Grades 11-12

Career Cluster: Science, Technology, Engineering and Math (STEMS)

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INDUSTRIAL TECH EDUCATION	1000
SKILLED & TECHNICAL SCIENCE ED	1700

<b>SKILLED AND TECHNICAL SCIENCES</b>
---------------------------------------

**ROBOTICS**

Short Name

Course Code

**ROBOTICS**

**103194**

Introduction of Robotics (IR) is designed to explore the current and future use of automation technology in industry and everyday use. Students will receive a comprehensive overview of robotic systems and the subsystems that comprise them while engaging with a robotics platform. This course is designed for students who have an interest in Science, Technology, Engineering, and Mathematics (STEM) robotics applications.

Recommended Level: Grades 9-12

Career Cluster: Science, Technology, Engineering and Math (STEM)

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INDUSTRIAL TECH EDUCATION	1000
PHYSICS	1308
SCIENCE	1301
SKILLED & TECHNICAL SCIENCE ED	1700

**ADVANCED ROBOTICS**

Short Name

Course Code

**ADV ROBOT**

**103195**

Advanced Robotics is designed to be a continuation of the Robotics course and provide a capstone experience in a sequence of courses dealing with the current and future use of automation technology in industry. Students will continue the study and exploration of robotic systems and the subsystems that comprise them while engaging with a robotics platform. This course is designed for students who have an interest in Engineering and Manufacturing.

Recommended Level: Grades 11-12

Career Cluster: Energy and Engineering

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INDUSTRIAL TECH EDUCATION	1000
PHYSICS	1308
SCIENCE	1301
SKILLED & TECHNICAL SCIENCE ED	1700

<b>SKILLED AND TECHNICAL SCIENCES</b>
---------------------------------------

**SKILLED AND TECHNICAL SCIENCE, OTHER**

<u>Short Name</u>	<u>Course Code</u>
<b>STSOTHER</b>	<b>109930</b>

SKILLED AND TECHNICAL SCIENCE courses not otherwise listed or classified. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Manufacturing

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INDUSTRIAL TECH EDUCATION	1000
SKILLED & TECHNICAL SCIENCE ED	1700

**SKILLED AND TECHNICAL SCIENCE, OTHER**

<u>Short Name</u>	<u>Course Code</u>
<b>STSOTHER</b>	<b>109931</b>

SKILLED AND TECHNICAL SCIENCE courses not otherwise listed or classified. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Manufacturing

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INDUSTRIAL TECH EDUCATION	1000
SKILLED & TECHNICAL SCIENCE ED	1700

**SKILLED AND TECHNICAL SCIENCE, OTHER**

<u>Short Name</u>	<u>Course Code</u>
<b>STSOTHER</b>	<b>109932</b>

SKILLED AND TECHNICAL SCIENCE courses not otherwise listed or classified. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Manufacturing

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INDUSTRIAL TECH EDUCATION	1000
SKILLED & TECHNICAL SCIENCE ED	1700

<b>SKILLED AND TECHNICAL SCIENCES</b>
---------------------------------------

**SKILLED AND TECHNICAL SCIENCE, OTHER**

Short Name

Course Code

**STSOTHER**

**109933**

SKILLED AND TECHNICAL SCIENCE courses not otherwise listed or classified. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Manufacturing

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INDUSTRIAL TECH EDUCATION	1000
SKILLED & TECHNICAL SCIENCE ED	1700

**SKILLED AND TECHNICAL SCIENCE, OTHER**

Short Name

Course Code

**STSOTHER**

**109934**

SKILLED AND TECHNICAL SCIENCE courses not otherwise listed or classified. Please note courses coded in this area do not count toward an approved Nebraska Career Education program of study.

Recommended Level: Grades 7-12

Career Cluster: Manufacturing

*Clearing Endorsement - - - Endorsement Level must be in accord with student grade level:*

<u>Endorsement Name</u>	<u>Endorsement Number</u>
INDUSTRIAL TECH EDUCATION	1000
SKILLED & TECHNICAL SCIENCE ED	1700

**Course Codes and Clearing Endorsements - Change Summary****Version 7.0.0****June 8, 2016**

**Numerous changes have been made to course descriptions and clearing endorsements.  
Please check carefully before assigning a course code.**

**1. Course Codes Removed**

077700 - Clinical Nutrition (please refer to new code 077702 – Human Life Cycle Nutrition)

090001 – Exploratory Family and Consumer Sciences

090002 – Introduction to Family and Consumer Sciences

090003 – FCS and Career Essentials

139931 – 139934 – Science, Other (139930 - Science, Other is still available)

230601 – Spanish for Native Speakers (please refer to 2 new codes available:

060249 – Spanish For Native Speakers I

060250 – Spanish For Native Speakers II

**2. New Course Codes**

050052 - IB Language A – (English)

060108 - Latin III

060109 - Latin IV

060227 - IB Language A - French

060228 - IB Language B – French

060237 - IB Language A - German

060238 - IB Language B - German

060247 - IB Language A - Spanish

060248 - IB Language B - Spanish

060249 - Spanish for Native Speakers I

060250 - Spanish for Native Speakers II

077201 - PLTW Medical Detectives

077446 - Phlebotomy Technician

077702 - Human Life Cycle Nutrition

077801 - Behavioral Health I

077802 - Behavioral Health II

077803 - PLTW Principles of Biomedical Science I

077804 - PLTW Principles of Biomedical Science II

077805 - PLTW Human Body Systems I

077806 - PLTW Human Body Systems II

## COURSE CODES AND CLEARING ENDORSEMENTS

Revised  
June  
2016

077807 - PTLW Medical Interventions I  
077808 - PTLW Medical Interventions II  
077809 - PTLW Biomedical Innovation I  
077810 - PTLW Biomedical Innovation II  
077812 - Health Information Management and Ethics  
090005 - Family and Consumer Sciences 6  
090006 - Family and Consumer Sciences 7  
090007 - Family and Consumer Sciences 8  
110623 - IB Mathematical Studies  
110624 - IB Mathematics  
110625 - IB Further Mathematics - SL  
110626 - IB Mathematics & Computing - SL  
130195 – Advanced Robotics  
130211 - IB Biology  
130212 - Botany  
130213 - Genetics  
130214 - Micro Biology  
130215 - Zoology  
130216 - Conceptual Biology  
130217 - Particular Topics In Biology  
130218 - Biology - Other  
130308 - IB Chemistry  
130309 - Conceptual Chemistry  
130310 - Particular Topics In Chemistry  
130311 - Chemistry - Other  
130312 - Astronomy  
130313 - Earth and Space Science  
130314 - Particular Topics in Earth Science  
130315 - Earth Science - Other  
130316 - Marine Science  
130317 - Forensic Science  
130416 - IB Physics  
130417 - Conceptual Physics  
130418 - Particular Topics in Physics  
130419 - Physics - Other  
130420 - Integrated Science  
130421 – Applied Biology/Chemistry  
152000 - Holocaust History  
152001 - IB History  
152002 - IB Psychology  
152003 - IB Theory of Knowledge

## COURSE CODES AND CLEARING ENDORSEMENTS

Revised  
June  
2016

270702 - Advanced Placement Computer Science Principles  
320701 - Work-based Learning/Coop/DO Experience

### 3. Course Codes with Name Changes

060246 - changed to: Advanced Placement Spanish and Culture  
(was: Advanced Placement Spanish)  
077300 - changed to: Health Sciences I  
(was: Introduction to Health Sciences)  
077301 - changed to: Health Sciences II  
(was: Advanced Health Sciences)  
077302 - changed to: Health Sciences II  
(was: Health Sciences Careers)  
077700 - changed to: Human Life Cycle  
(was: Clinical Nutrition)  
090206 - changed to: Fashion Design and Marketing  
(was: Fashion Design)  
130201 - changed to: Biology  
(was: Biology I)  
130202 - changed to: Biology – Advanced Studies  
(was: Biology II)  
130301 - changed to: Chemistry  
(was: Chemistry I)  
130303 - changed to: Physics  
(was: Physics I)  
320700 - changed to: Work-Based Learning/COOP/DO Class  
(was: Work-Based Learning/COOP/DO)

### 4. Course Description changes

060246 - Advanced Placement Spanish & Culture  
077402 - Emergency Medical Technician  
100160 - PLTW Principles of Engineering  
100161 - PLTW Introduction to Engineering Design  
100162 - PLTW Civil Engineering Design  
100163 - PLTW Engineering Design and Development  
100164 - PLTW Aerospace Engineering  
100165 - PLTW Biotechnical Engineering  
100403 - PLTW Digital Engineering  
101901 – PLTW Computer Integrated Manufacturing  
130202 - Biology – Advanced Studies (was previously Biology II)

# COURSE CODES AND CLEARING ENDORSEMENTS

Revised  
June  
2016

130302 - Chemistry – Advanced Studies  
130307 - Physics – Advanced Studies  
150800 - World History  
150820 - American History  
151110 - American Government  
320700 – Work-Based Learning/Coop/DO Class

## 5. Endorsements code name changes

0700 – New: Health Sciences (Previous: Health Occupations)

## 6. Endorsement s codes have been added for the following course codes

Health Sciences area and Skilled and Technical Sciences area have had multiple changes for courses – Please review each course carefully for changes.

270608 – Introduction to Media – 0304, 2701  
270609 – Medical Production I – 0304, 2701  
270610 – Media Production II – 0304, 2701

## Version 6.0.0

July 22, 2015

**Numerous changes have been made to course descriptions and clearing endorsements.  
Please check carefully before assigning a course code.**

### 1. Course Codes Removed

270701 – Advanced Placement Computer Science B  
320500 – Exploration of Business and Entrepreneurship  
Removed from: Career Education Foundational & Specialty  
Still available as 032350 under Business, Marketing and Management

### 2. New Course Codes

011013 – Agricultural Biology  
032604 – College Entrepreneurship Financial Topics  
032605 – College Entrepreneurship Business Plan  
038502 – College Macroeconomics  
038503 – College Microeconomics  
077444 – Pharmacy Fundamental  
077601 – Exercise Science  
077701 – Sport Nutrition

# COURSE CODES AND CLEARING ENDORSEMENTS

Revised  
June  
2016

077900 – Allied Health and Medicine  
110622 – College Technical Mathematics  
320300 – Engage! Career Exploration and Readiness

### 3. Course Codes with Name Changes

077300 – changed to: Introduction to Health Sciences  
(was: Introduction to Health Science)  
077301 – changed to: Advanced Health Sciences  
(was: Advanced Health Science)  
077302 – changed to: Health Sciences Careers  
(was: Health Science Careers)  
077402 – changed to: Emergency Medical Tech  
(was: Emergency Medical Tech – Basic)

### 4. Endorsements have been changed for the following course codes

320100 – Middle School Career Development  
Remove: 8888  
Add: 0100, 0301, 0304, 0903, 1000, 1810, 1812, 1813, 1816, 2501  
320101 – High School Career Development  
Remove: 8888  
Add: 0100, 0301, 0304, 0903, 1000, 1810, 1812, 1813, 1816, 2501  
032300 – Entrepreneurship  
Add: 0304  
032600 – College Introduction to Entrepreneurship  
Add: 0304  
090116 – Relationships  
Remove: 1813  
190530 – Special Education Language Arts – (PAC 1162)  
Add: 0501, 0502, 0511, 0521  
191130 – Special Education Mathematics – (PAC 1162)  
Add: 1100  
191330 – Special Education Science – (PAC 1162)  
Add: 1301  
191530 – Special Education Social Studies – (PAC 1162)  
Add: 1501 and 1505

**Version 5.0.0**

**April 9, 2014**

**Numerous changes have been made to course descriptions and clearing endorsements.  
Please check carefully before assigning a course code.**

## COURSE CODES AND CLEARING ENDORSEMENTS

Revised  
June  
2016

1. **Course codes removed:**

012000 – Horticulture  
100131 – Introduction to Architecture Technology  
100150 – Restoration and Repair of Existing Structure  
100404 – Electricity in the Construction Industry  
100500 – Technology Education  
100501 – Gateway to Technology  
100503 – Principles of Technology  
100800 – Principles of Maintenance and Operations  
101910 – Advanced Mechatronics  
103170 – PLTW Computer Integrated Manufacturing

2. **New Course Codes:**

016004 – Welding  
018049 – Environmental Science  
100402 – Advanced Electronics  
270701 – Advanced Placement Computer Science B  
135021 – Advanced Placement Physics 1: Algebra-Based  
135022 – Advanced Placement Physics 2: Algebra-Based  
230801 – Advanced Placement Research  
230802 – Advanced Placement Seminar

3. **Course Codes with Name Changes:**

011007 – changed to – **Plant Science/Horticulture**  
(was Plant Science)  
017000 – changed to – **Leadership & Ethics in Agriculture**  
(was Leadership)  
018080 – changed to – **FNS: Food Production, Nutrition and Health**  
(was PFT, Food Production, Nutrition and Health)  
018081 – changed to – **FNS: Food Science**  
(was PFT, Food Science)  
018082 – changed to – **FNS: Nutrition Science**  
(was PFT, Nutrition Science)  
018083 – changed to – **FNS: Food and Nutrition Science, Research and Development**  
(was PFT, Food and Nutrition Science, Research and Development)  
090103 – changed to – **Textiles, Construction and Design**  
(was Textiles Foundations)  
090208 – changed to – **Leadership and Ethics in Human Services**  
(was Community and Career Leadership)  
100110 – changed to – **Principals of Construction Technology**  
(was Principles of Construction)  
100120 – changed to – **Advanced Construction Technology**

# COURSE CODES AND CLEARING ENDORSEMENTS

Revised  
June  
2016

(was Advanced Construction)

100130 – changed to – **Introduction to Architecture and Construction**

(was Language of Architecture and Construction (CADD))

100141 – changed to – **Applications in Design and Pre-Construction**

(was Computer Aided Drafting)

100401 – changed to – **Introduction to Electronics**

(was Electronics-Comprehensive)

100405 – changed to – **Electricity**

(was Electricity-Comprehensive)

101600 – changed to – **Introduction to Energy, Power and Transportation Systems**

(was Intro-Transportation, Distribution and Logistics)

103191 – changed to – **Introduction to Engineering**

(was Introduction of Engineering)

103194 – changed to – **Robotics**

(was Robotics 1)

270505- changed to – **CISCO I: Introduction to Networks**

(was CISCO I: IT Essentials – PC Hardware and Software)

270506 – changed to – **CISCO II: Routing and Switching Essentials**

(was CISCO II: CCNA Discovery)

270507 – changed to – **CISCO III: Scaling Networks**

(was CISCO III: CCNA Exploration)

#### 4. **Endorsement Name Changes:**

0510 – JOURNALISM AND MEDIA EDUCATION (was JOURN AND MASS COMM)

0502 – ENGLISH LANGUAGE ARTS (was LANGUAGE ARTS)

1301 – SCIENCE (was NATURAL SCIENCE)

1804 – EARLY CHILDHOOD INCLUSIVE (was EARLY CHILD UNIFIED)

1913 – SPECIAL EDUCATION (was MILD/MODERATE DISABILITIES)

1916 – SPED EARLY CHILDHOOD (was EARLY CHILDHOOD SPEC ED)

8888 – OTHER ENDORSEMENTS (Where “Other Endorsements” appear, replace with “OTHER ENDORSEMENTS”  
(formatting/consistency)

#### 5. **Endorsement Codes Removed:**

0303 – GENERAL OFFICE EDUC

0504 – SPEECH AND THEATRE

1302 – GENERAL SCIENCE

1304 – PHYSICAL SCIENCE

1310 – SCIENCE

1900 – PRE-SCHOOL HDCP

1915 – PRE-SCHOOL DISABILITIES

2301 – LANGUAGE-SOC SCI

#### 6. **NEW Endorsement Codes:**

0512 – Secondary English

## **COURSE CODES AND CLEARING ENDORSEMENTS**

**Revised  
June  
2016**

1830 – Early Childhood Education (1802 is also still active until phased out)

0520 – Journalism and Media Education (0510 is also still active until phased out)

0521 – Read and Writing (0511 is also still active until phased out)

0522 – Speech (0506 is also still active until phased out)

0523 – Theatre (1204 is also still active until phased out)

# COURSE CODES AND CLEARING ENDORSEMENTS

Revised  
June  
2016

## Version 4.0.0

March 19, 2013

### 1. Course codes removed:

- 210101 – Drivers Ed – Behind the Wheel
- 210102 – Drivers Ed – Classroom Instruction

### 2. Subject area removed:

Title I – All courses under this subject area have been removed.

### 3. New Course Codes:

#### **Agriculture, Food and Natural Resources (01):**

- 018060 – CASE Introduction to Agriculture, Food & Natural Resources
- 018061 – CASE Plant Science
- 018602 – CASE Animal Science
- 018063 – CASE Animal & Plant Biotechnology
- 018080 – PFT Food Production, Nutrition and Health
- 018081 – PFT Food Science
- 018082 – PFT Nutrition Science
- 018083 – PFT Food and Nutrition Science, Research and Development

#### **Visual and Performing Arts (ART) (02):**

- 020503 – AP Art History

#### **Human Services/FCS (09):**

- 090101 – Introduction to Human Science/FCS
- 090207 – The Business of Textiles

#### **Driver Education/Safety Education (21)**

- 210105 – Driver Education

#### **Communication & Information Systems (27)**

- 270505 – CISCO I: IT Essentials-PC Hardware and Software
- 270506 - CISCO II: CCNA Discovery
- 270507 – CISCO III: CCNA Exploration

### 4. Endorsements Removed:

- 2510 – School Nurse from all courses under Subject Area Health Science.
- 0503 - Journalism

## Version 3.1.1

April 20, 2012

Endorsement number has been corrected on Course Code 060236 AP German & Culture.

Correct endorsement number is 0602 (not 1915)

# COURSE CODES AND CLEARING ENDORSEMENTS

Revised  
June  
2016

## Version 3.1

February 27, 2012

**Endorsements have been added to the following course codes:**

<u>038500</u> Advanced Placement Macroeconomics	1501	Social Science
<u>038501</u> Advanced Placement Microeconomics	1501	Social Science
<u>270700</u> Advanced Placement Computer Science A	0304	Business, Marketing, Info Tech
<u>150750</u> Advanced Placement Geography	1501	Social Science
<u>150805</u> Advanced Placement World History	1501	Social Science
<u>150806</u> Advanced Placement European History	1501	Social Science
<u>150830</u> Advanced Placement US History	1501	Social Science
<u>151210</u> Advanced Placement Psychology	1501	Social Science

## Version 3.0

August 17, 2011

**Numerous changes have been made to course descriptions and clearing endorsements.  
Please check carefully before assigning a course code.**

### 1. General information

- a. Certificate/Endorsement Levels

### 2. General Information

- a. For Provisional Certificates
- b. Middle Grades (change)
- c. Elementary (added new)

### 3. New Subject Areas and Course Codes in those areas

#### Education and Training (35)

- 350001 - Introduction to Education
- 350010 - Experiencing Teaching
- 350015 - Early Childhood Education I
- 350020 - Early Childhood Education II
- 359930 – 359934 - Education and Training, Other

#### Hospitality and Tourism (37)

- 370010 - Hospitality and Tourism
- 370015 - Food Service Management I
- 370020 - Food Service Management II
- 379930 – 379934 – Hospitality and Tourism, Other

#### Law, Public Safety and Security (39)

- 390010 - Foundation of Law, Public Safety, Corrections and Security
- 390015 - Introduction to Criminal Justice

## COURSE CODES AND CLEARING ENDORSEMENTS

Revised  
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- 390020 - Introduction to Fire & Emergency Services
- 390025 - Courts and Judicial Process
- 399930 – 399934 – Law, Public Safety and Security, Other

### 4. New Course Codes

#### Agriculture, Food and Natural Resources (01)

- 018050 – Advanced Placement Environmental Science

#### Visual & Performing Arts (Art) - (02)

- 020500 – Advanced Placement Studio Art: 2D Design
- 020501 – Advanced Placement Studio Art: 3D Design
- 020502 – Advanced Placement Studio Art: Drawing

#### Business, Marketing and Management (03)

- 038500 – Advanced Placement Macroeconomics
- 038501 – Advanced Placement Microeconomics

#### English Language Arts (05)

- 050050 – Advanced Placement English Language & Composition
- 050051 – Advanced Placement English Literature & Composition
- 050315 – Advanced Placement Spanish Literature

#### World Language (06)

- 060107 – Advanced Placement Latin: Vergil
- 060226 – Advanced Placement French & Culture
- 060236 – Advanced Placement German & Culture
- 060246 – Advanced Placement Spanish Language
- 060253 – Advanced Placement Japanese & Culture
- 060276 – Advanced Placement Chinese & Culture

#### Health Science (07)

- 077302 – Advanced Studies in Health Science
- 077303 – Personal and Community Medical Issues
- 077304 – Exploring the Clinical Lab
- 077401 – Medication Aide
- 077402 – Emergency Medical Tech – Basic
- 077800 - Health Information Technology

#### Skilled and Technical Science (10)

- 100407 – Energy Generation and Distribution
- 100706 – Exploring Skilled and Technical Science – 6<sup>th</sup> Grade
- 100707 - Exploring Skilled and Technical Science – 7<sup>th</sup> Grade
- 100708 - Exploring Skilled and Technical Science – 8<sup>th</sup> Grade
- 101601 - Emerging Technologies in Transportation and Logistics
- 101650 - Business Logistics
- 101951 - Adv Fabrication & Mfg – Plastics

## COURSE CODES AND CLEARING ENDORSEMENTS

Revised  
June  
2016

### Mathematics (11)

- 110620 - Advanced Placement Calculus AB
- 110621 - Advanced Placement Calculus BC
- 111720 - Advanced Placement Statistics

### Visual & Performing Arts (Music) (12)

- 120700 - Advanced Placement Music Theory

### Natural Sciences (13)

- 135000 - Advanced Placement Biology
- 135010 - Advanced Placement Chemistry
- 135020 - Advanced Placement Physics

### Social Sciences/Social Studies (15)

- 150750 - Advanced Placement Geography
- 150805 - Advanced Placement World History
- 150806 - Advanced Placement European History
- 150830 - Advanced Placement US History
- 151113 - Advanced Placement Government
- 151210 - Advanced Placement Psychology

### Self-Contained Classroom (18)

- 180005 - Home-Based Program (non-Sped)

### Special Education (19)

- 194000 - Special Education In-Home Setting

### Communication & Information Systems (27)

- 270700 - Advanced Placement Computer Science A

### Career Education, Foundational & Specialty (32)

- 329930 – 329934 - Career Education, Foundational & Specialty, OTHER

### 5. Course Codes Removed:

- 011001 – Comprehensive Agriculture/Natural Resources Animal Science
- 011002 – Comprehensive Plant and Soil Science
- 011003 – Comprehensive Agribusiness/Farm Management
- 013003 – Science of Earth Systems
- 013004 – Environmental Science
- 013005 – Ecology of Agriculture
- 014002 – Biotechnology in Food Products and Processing Systems
- 015000 – Agricultural Business Management
- 016004 – Agricultural Mechanics and Technology
- 035000 – Food Service Management I
- 035001 – Food Service management II
- 038300 – Hospitality and Tourism
- 090119 – Early Childhood Education I
- 090120 – Early Childhood Education II
- 090300 – Careers in Education

## COURSE CODES AND CLEARING ENDORSEMENTS

Revised  
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2016

090310 – Experiencing Teaching  
090400 – Law, Public Safety and Security  
090410 – Introduction to Criminal Justice  
090500 – Introduction to Fire and Emergency Services  
100700 – Exploring Industrial, Manufacturing & Engineering Systems

### **Version 2.0**

**August 11, 2010**

1. Added new Course Codes:
  - a. 230101 – JROTC
  - b. 320101 – HS Learning, Earning and Living Skills
2. Removed Course Code:
  - a. 230100 – ROTC
3. Subject Area Change:
  - a. Foreign Language changed to World Language
4. Endorsement Changes in Subject Areas:
  - a. Business, Marketing and Management
  - b. Career Education Foundational and Specialty
  - c. Industrial, Manufacturing and Engineering Systems