

***NEVADA
CAREER & TECHNICAL
EDUCATION
COURSE CATALOG
SCHOOL YEAR 2013-2014***



This document was prepared by:

Office of Career, Technical and Adult Education
Nevada Department of Education
755 N. Roop Street, Suite 201
Carson City, NV 89701

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CTE MISSION STATEMENT:

The Office of Career, Technical and Adult Education is dedicated to developing innovative educational opportunities for students to acquire skills for productive employment and lifelong learning.

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Compiled and Organized by:
Alex Kyser, Education Programs Professional
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INTRODUCTION

PURPOSE

The purpose of the statewide course catalog for career and technical education (CTE) is to provide a resource that consolidates all CTE secondary education courses in Nevada. This catalog shall be used as the sole resource for school districts to determine courses and course sequences for all high schools. This catalog is considered a dynamic resource where new courses may be added through the application process approved by the Department of Education to ensure the following thresholds are met:

- The CTE course and course sequence teaches the knowledge and skills required by industry through applied learning methodology and, where appropriate, work-based learning experiences that prepare students for careers in high-wage, high-skill and/or high-demand fields. Regional and state economic development priorities shall play an important role in determining program approval. Some courses also provide instruction focused on personal development.
- The CTE course and course sequence includes leadership and employability skills as an integral part of the curriculum.
- The CTE course and course sequence are part of a rigorous program of study and include sufficient technical challenge to meet state and/or industry-standards.

CATALOG ORGANIZATION

Courses are organized into the following program areas: (1) Agriculture and Natural Resources; (2) Business and Marketing Education; (3) Health Sciences and Public Safety; (4) Hospitality, Human Services and Education; (5) Information and Media Technologies; and (6) Skilled and Technical Sciences. Courses within each program area are further aligned to their appropriate career cluster. Each program area section includes the following elements: (1) Program Course Sequences; and (2) Program Course Listings.

PROGRAM COURSE SEQUENCES

The course sequencing provided in this section serves as a guide to schools to develop programs of study. Completion of the program core sequence is essential for the successful delivery of the state standards in each program.

The sequencing tables are divided into their appropriate career clusters. Within each career cluster, programs are listed alphabetically. Each program identifies: (1) Core Sequence; (2) Complementary Course(s); and (3) State Skill Standards. An example for Animation is shown below.

PROGRAM NAME	COURSE SEQUENCE	STATE SKILL STANDARDS*
Animation	<p><u>Core Course Sequence</u> Animation I Animation II Animation III</p> <p><u>Complementary Course(s)</u> Animation II LAB ** Animation III LAB ** Animation Advanced Studies</p>	Animation *TBD*

The **core course sequence** identifies the courses listed in sequential order required for the complete delivery of the state standards for that program.

The **complementary courses** are those courses that directly support additional time or instruction of the state standards. The use of complementary courses must follow the sequence allowance rules listed in the following table.

SEQUENCING ALLOWANCES FOR COMPLEMENTARY COURSES
<p>Schools can incorporate additional complementary or related courses into the program of study if all of the following are met:</p> <ul style="list-style-type: none"> • the additional courses do not prevent the student from reaching the completion level course • the course relates to the student's program of study • student's schedule allows for additional courses • the course is an approved course in the Nevada CTE Course Catalog

The **state standards** column identifies the CTE state standards developed for the course sequence. CTE state standards are or will be developed for all programs, and will be revised and updated as needed or according to a pre-determined schedule. (The CTE state standards labeled with “*TBD*” indicates “To Be Developed”.) The Employability Skills for Career Readiness Standards must be an integrated component of all CTE course sequences. Technical assessments will be implemented for those programs with current industry validated standards.

COURSE LISTINGS

The course listings are organized alphabetically within each program area's career cluster and include the following elements: (1) Course Title; (2) Abbreviated Name; (3) Credits; (4) Course Level; (5) Classification of Instructional Program Code (CIP Code); (6) Prerequisites; and (7) Course Description. An example for a Business Management course is shown below.

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Business Management I	BUS MGMT I	1	L2	52.0201
<p><i>Prerequisite: Principles of Business and Marketing</i></p> <p>This course is a continuation of the Business Management program. The course addresses several types of management, including customer relationship management, human resources management, information management, knowledge management, project management, quality management, risk management, and strategic management. Economics, finance, operations, and professional development are also emphasized throughout the course. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				

The **course titles, abbreviated names, levels, and CIP codes** are to be used locally exactly as written in this catalog. This is especially important since it is those titles, abbreviations, levels, and CIP codes that will populate the System for Accountability Information in Nevada (SAIN). Through accurate use of the titles, abbreviated names, levels, and CIP codes, the CTE data reporting will be equally consistent and accurate. Furthermore, the data system will not accept course names, abbreviations, levels, and CIP codes that are inconsistent with those in this catalog.

CTE is largely defined by courses that meet the description above and are one (1) **credit** in length. Exceptions to one credit courses are permitted for national program curriculum designs, such as those required by the National Academy Foundation, High Schools of Business, and others.

The **course level** determines the order in which courses will be taught. In a designated sequence, for example, a level 2 course (L2) is taught after the level 1 course (L1) in the same sequence. The CTE program should follow the sequence in order for the student to complete all state standards and be prepared for the end-of-program technical assessment. The end-of-program technical assessment will be

administered in the completion course (L2C, L3C, or L4C) for those programs for which assessments have been developed. The following table describes each level.

LEVEL	DESCRIPTION
L1	Introductory level 1 course
L1L	Introductory level 1 course lab * (concurrent enrollment in L1 required)
L2	Intermediate level 2 course
L2L	Intermediate level 2 course lab * (concurrent enrollment in L2 or L2C required)
L2C	Completion level 2 course per state standards (CTE assessments given)
L3	Advanced level 3 course
L3L	Advanced level 3 course lab * (concurrent enrollment in L3 or L3C required)
L3C	Completion level 3 course per state standards (CTE assessments given)
L4C	Completion level 4 course per state standards (CTE assessments given)
L4L	Completion level 4 course lab * (concurrent enrollment in L4C required)
AS	Advanced Studies level course ** (above and beyond the state standards)
WK	Work Experience ***

* Lab courses are to be taught concurrently with the associated level course (i.e., level two course with the level two lab course) – see individual course descriptions for requirements and prerequisites.

** Advanced Studies courses allow students to continue taking courses beyond the completion level courses and are repeatable.

*** Work Experience courses must follow NAC 389.562, 389.564, and 389.566 regulations.

Lastly, a course description is provided for each course. The descriptions are fairly general and are intended to be used by school districts and schools for their annual catalogs, registration materials, etc. The description may be enhanced or modified as desired at the local level.

CTE ASSESSMENTS

There are two types of CTE Assessments: (1) Employability Skills for Career Readiness Assessment, which measures the “soft skills” needed to be successful in all careers; and (2) End-of-Program Technical Assessment, which is program specific and measures the skill attainment of a student who has completed a program course sequence. These assessments are web-based and aligned to the program specific state standards. The End-of-Program Technical Assessment is required by the Nevada Administrative Code. (NAC 389.800 section 1)

CAREER AND TECHNICAL STUDENT ORGANIZATIONS (CTSOS)

To further the development of leadership and technical skills, students have opportunities to participate in one or more Career and Technical Student Organizations (CTSOS). CTSOs develop character, citizenship, and the technical, leadership and teamwork skills essential for the workforce and their further education. Their activities are considered a part of the instructional day when they are directly related to the competencies and objectives in the course. The six approved CTSOs are shown below:

- DECA
- FBLA
- FCCLA
- FFA
- HOSA
- SkillsUSA

CATALOG UPDATES AND REVISIONS

The CTE Course Catalog will be updated and presented to the State Board of Education/State Board for Career and Technical Education on an annual basis. Courses and course sequences may be added to this catalog only through the application process approved by the Department of Education.

AGRICULTURE & NATURAL RESOURCES

CAREER CLUSTERS & PROGRAM ALIGNMENT



Agriculture, Food & Natural Resources

- Agriculture Business Systems
- Agriculture Leadership, Communication & Policy
- Ag MET Equipment Fabrication Systems
- Ag MET Power Systems
- Ag MET Structural Systems
- Animal Science
- Environmental Management
- Equine Science
- Floriculture Design & Management
- Landscape Design & Management
- Natural Resources & Wildlife Management
- Ornamental Horticulture/Greenhouse Management
- Veterinary Science

PROGRAM COURSE SEQUENCES

AGRICULTURE & NATURAL RESOURCES		
AGRICULTURE, FOOD & NATURAL RESOURCES		
Program Name	Course Sequence	State Skill Standards*
Agriculture Business Systems	<u>Core Course Sequence</u> Agriculture Science I Agriculture Science II Agriculture Business <u>Complementary Course(s)</u> Agriculture Business Advanced Studies	Agriculture Science & Agriculture Business Systems
Agriculture Leadership, Communication and Policy	<u>Core Course Sequence</u> Agriculture Science I Agriculture Science II Agriculture Leadership Communication and Policy <u>Complementary Course(s)</u> Agriculture LCP Advanced Studies	Agriculture Science & Agriculture Leadership, Communication and Policy
Agriculture Mechanical Engineering Technology Equipment Fabrication Systems	<u>Core Course Sequence</u> Agriculture Mechanical Engineering Technology I Agriculture Mechanical Engineering Technology II AG MET Equipment Fabrication Systems <u>Complementary Course(s)</u> AG MET Advanced Studies	Agriculture Mechanical Engineering Technology Equipment Fabrication Systems
Agriculture Mechanical Engineering Technology Power Systems	<u>Core Course Sequence</u> Agriculture Mechanical Engineering Technology I Agriculture Mechanical Engineering Technology II AG MET Power Systems <u>Complementary Course(s)</u> AG MET Advanced Studies	Agriculture Mechanical Engineering Technology Power Systems
Agriculture Mechanical Engineering Technology Structural Systems	<u>Core Course Sequence</u> Agriculture Mechanical Engineering Technology I Agriculture Mechanical Engineering Technology II AG MET Structural Systems <u>Complementary Course(s)</u> AG MET Advanced Studies	Agriculture Mechanical Engineering Technology Structural Systems
Animal Science	<u>Core Course Sequence</u> Agriculture Science I Agriculture Science II Animal Science <u>Complementary Course(s)</u> Animal Science Advanced Studies	Agriculture Science & Animal Science
Environmental Management	<u>Core Course Sequence</u> Environmental Management I Environmental Management II Environmental Management III <u>Complementary Course(s)</u> Environmental Management Advanced Studies	Environmental Management

* The Employability Skills for Career Readiness Standards must be an integrated component of all CTE course sequences.

AGRICULTURE, FOOD & NATURAL RESOURCES (CONT.)		
Program Name	Course Sequence	State Skill Standards*
Equine Science	<u>Core Course Sequence</u> Agriculture Science I Agriculture Science II Equine Science <u>Complementary Course(s)</u> Equine Science Advanced Studies	Agriculture Science & Equine Science *TBD*
Floriculture Design and Management	<u>Core Course Sequence</u> Agriculture Science I <i>or</i> Horticulture Science Plant Science and Ornamental Horticulture Floriculture <u>Complementary Course(s)</u> Floriculture Advanced Studies	Agriculture Science <i>or</i> Horticulture Science & Ornamental Horticulture/Greenhouse Management & Floriculture Design and Management
Landscape Design and Management	<u>Core Course Sequence</u> Agriculture Science I <i>or</i> Horticulture Science Landscaping I Landscaping II <u>Complementary Course(s)</u> Landscaping Advanced Studies	Agriculture Science <i>or</i> Horticulture Science & Landscape Design and Management
Natural Resources and Wildlife Management	<u>Core Course Sequence</u> Agriculture Science I Agriculture Science II Natural Resources and Wildlife Management <u>Complementary Course(s)</u> Natural Resources and Wildlife Management Advanced Studies	Agriculture Science & Natural Resources and Wildlife Management
Ornamental Horticulture/Greenhouse Management	<u>Core Course Sequence</u> Agriculture Science I <i>or</i> Horticulture Science Plant Science and Ornamental Horticulture Greenhouse Management <u>Complementary Course(s)</u> Greenhouse Management Advanced Studies	Agriculture Science <i>or</i> Horticulture Science & Ornamental Horticulture/Greenhouse Management
Veterinary Science	<u>Core Course Sequence</u> Agriculture Science I <i>or</i> Veterinary Science I Agriculture Science II <i>or</i> Veterinary Science II Veterinary Science III <u>Complementary Course(s)</u> Veterinary Science Advanced Studies	Agriculture Science & Veterinary Science

* The Employability Skills for Career Readiness Standards must be an integrated component of all CTE course sequences.

COURSE DESCRIPTIONS

AGRICULTURE, FOOD & NATURAL RESOURCES

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Agriculture Business	AG BUSINESS	1	L3C	01.0102
<p><i>Prerequisite: Agriculture Science II</i></p> <p>This course is a continuation of Agriculture Science II. This course provides advanced agriculture students with the information and skills necessary for success in agribusiness and in operating entrepreneurial ventures in the agricultural industry. These courses may cover topics such as economic principles, budgeting, risk management, finance, business law, marketing and promotion strategies, insurance, and resource management. Other possible topics include developing a business plan, employee/employer relations, problem-solving and decision making, commodities, and building leadership skills. These courses may also incorporate a survey of the careers within the agricultural industry. An essential part of this course will be leadership activities and Supervised Agriculture Experience Programs. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Agriculture Business Advanced Studies	AG BUSINESS AS	1	AS	01.0102
<p><i>Prerequisite: Agriculture Business</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Agriculture Leadership Communication and Policy	AG LEADERSHIP	1	L3C	01.0899
<p><i>Prerequisite: Agriculture Science II</i></p> <p>This course is a continuation of Agriculture Science II. This program provides advanced agriculture students with instruction on leadership and communication skills with a focus on opportunities in the agriculture industries. Topics will include communication research, verbal and written communications, journalism, mass media, agriculture policy and human relations. Other topics may include problem solving and decision making and teamwork skills. An essential part of this course will be leadership activities and Supervised Agriculture Experience Programs. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Agriculture LCP Advanced Studies	AG LEADERSHIP AS	1	AS	01.0899
<p><i>Prerequisite: Agriculture Leadership Communication and Policy</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Agriculture Mechanical Engineering Technology I	AG MET I	1	L1	01.0201
<p><i>Prerequisite: None</i></p> <p>This course will introduce students into the foundation skills necessary for agriculture mechanics and industry employment. Areas of study may include general shop safety, basic welding, electrical applications, water management, agricultural drafting and construction, engines and power, and machinery maintenance and repair. An essential part of this course will be leadership activities and Supervised Agriculture Experience Programs.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Agriculture Mechanical Engineering Technology II	AG MET II	1	L2	01.0201
<p><i>Prerequisite: Agriculture Mechanical Engineering Technology I</i></p> <p>This course is a continuation of Agriculture Mechanical Engineering Technology I. It allows intermediate agriculture students to expand on skills and knowledge from Agriculture Mechanical Engineering Technology I. Areas of study may include general shop safety, basic welding, electrical applications, water management, agricultural drafting and construction, engines and power, and machinery maintenance and repair. An essential part of this course will be leadership activities and Supervised Agriculture Experience Programs. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
AG MET Equipment Fabrication Systems	AG MET EQUIP FAB	1	L3C	01.0205
<p><i>Prerequisite: Agriculture Mechanical Engineering Technology II</i></p> <p>This course is a continuation of Agriculture Mechanical Engineering Technology II. This course provides advanced agriculture students with instructions in advanced techniques and processes such as electrical controls and maintenance, GMAW, GTAW, and plasma cutting, with an emphasis in equipment fabrication. An essential part of this course will be leadership activities and Supervised Agriculture Experience Programs. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
AG MET Power Systems	AG MET POWER SYS	1	L3C	01.0204
<p><i>Prerequisite: Agriculture Mechanical Engineering Technology II</i></p> <p>This course is a continuation of Agriculture Mechanical Engineering Technology II. This course provides advanced agriculture students with instruction in advanced techniques and processes with an emphasis in ag machinery operation and repair, hydraulics, and electrical power, motor and control systems. An essential part of this course will be leadership activities and Supervised Agriculture Experience Programs. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
AG MET Structural Systems	AG MET STRUCTURE	1	L3C	01.0299
<p><i>Prerequisite: Agriculture Mechanical Engineering Technology II</i></p> <p>This course is a continuation of Agriculture Mechanical Engineering Technology II. This course provides advanced agriculture students with instructions in advanced techniques and processes with an emphasis in agricultural construction. An essential part of this course will be leadership activities and Supervised Agriculture Experience Programs. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
AG MET Advanced Studies	AG MET AS	1	AS	01.0201
<p><i>Prerequisite: AG MET Equipment Fabrication Systems or AG MET Power Systems or AG MET Structural Systems</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Agriculture Science I	AG SCIENCE I	1	L1	01.0000
<p><i>Prerequisite: None</i></p> <p>This course is an introduction and survey course of the many career areas in agriculture. Topics include scientific investigations in agriculture, basic animal science, basic plant and soil science, ornamental horticulture, natural resource management, business management, leadership and communication through FFA, and career skills. An essential part of this course will be leadership activities and Supervised Agriculture Experience Programs.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Agriculture Science II	AG SCIENCE II	1	L2	01.0000
<p><i>Prerequisite: Agriculture Science I</i></p> <p>This course is a continuation of Agriculture Science I. This course allows intermediate students to expand on skills and knowledge from Agriculture Science I. Areas of study include scientific investigations in agriculture, plant and soil sciences, agriculture sales and marketing, ornamental horticulture, animal sciences and natural resource management. An essential part of this course will be leadership activities and Supervised Agriculture Experience Programs. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Animal Science	ANIMAL SCIENCE	1	L3C	01.0901
<p><i>Prerequisite: Agriculture Science II</i></p> <p>This course is a continuation of Agriculture Science II. This course allows advanced students to expand on skills and knowledge from Agriculture Science II while exploring the livestock and red meat industry. This course covers the basic anatomy and physiology of domestic animals, genetics, reproduction, animal health and welfare, evaluation and selection of animals, land stewardship and marketing. An essential part of this course will be leadership activities and Supervised Agriculture Experience Programs. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Animal Science Advanced Studies	ANIMAL SCIENCE AS	1	AS	01.0901
<p><i>Prerequisite: Animal Science</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Environmental Management I	ENVIRON MGMT I	1	L1	03.0101
<p><i>Prerequisite: None</i></p> <p>This course is an introduction to environmental management. Areas of study include ecological concepts and scientific principles related to environmental science, soils, composting and recycling, fisheries, forestry, and wildlife habitat. An essential part of this course will be leadership activities and Supervised Agriculture Experience Programs.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Environmental Management II	ENVIRON MGMT II	1	L2	03.0101
<p><i>Prerequisite: Environmental Management I</i></p> <p>This course is a continuation of Environmental Management I. This course will provide intermediate students with instruction in advanced techniques and processes. The students will continue to develop all skills learned in Environmental Management I. Areas of study include air and water quality, soils, solid waste management, conventional and renewable energy resources, and career exploration. An essential part of this course will be leadership activities and Supervised Agriculture Experience Programs. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Environmental Management III	ENVIRON MGMT III	1	L3C	03.0101
<p><i>Prerequisite: Environmental Management II</i></p> <p>This course is a continuation of Environmental Management II. This course will provide advanced students with instruction in environmental site management, law and public policy, GPS and GIS, and hydrology and hydrogeology. The students will continue to develop all skills learned in Environmental Management I and II. An essential part of this course will be leadership activities and Supervised Agriculture Experience Programs. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Environmental Management Advanced Studies	ENVIRON MGMT AS	1	AS	03.0101
<p><i>Prerequisite: Environmental Management III</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Equine Science	EQUINE SCIENCE	1	L3C	01.0507
<p><i>Prerequisite: Agriculture Science II</i></p> <p>This course is a continuation of Agriculture Science II. This course allows advanced agriculture students to focus on the care and management of horses. Animal nutrition, health, behavior, reproduction and breeding, anatomy and physiology, facilities, handling and training, and grooming are typical areas of study. An essential part of this course will be leadership activities and Supervised Agriculture Experience Programs. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Equine Science Advanced Studies	EQUINE SCIENCE AS	1	AS	01.0507
<p><i>Prerequisite: Equine Science</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Floriculture	FLORICULTURE	1	L3C	01.0608
<p><i>Prerequisite: Plant Science and Ornamental Horticulture</i></p> <p>This course is a continuation of Ornamental Horticulture. This course is the study of the science, business and design principles of floriculture. Areas of study include the history of floral design, the use of color, tools and principles of design in floral arrangements, plant identification, care and processing of cut flowers, marketing and sales, record keeping and floral business management. An essential part of this course will be leadership activities and Supervised Agriculture Experience Programs. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Floriculture Advanced Studies	FLORICULTURE AS	1	AS	01.0608
<p><i>Prerequisite: Floriculture</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Greenhouse Management	GREENHOUSE MGMT	1	L3C	01.0604
<p><i>Prerequisite: Plant Science and Ornamental Horticulture</i></p> <p>This course is a continuation of Ornamental Horticulture. This course provides advanced agriculture students a technical understanding and working knowledge of the greenhouse industry. Topics include safety, plant physiology, growing media, plant nutrition, integrated pest management, propagation, growing greenhouse crops and greenhouse business concepts. Students will gain knowledge and skills related to the care and management of gardens and greenhouses. An essential part of this course will be leadership activities and Supervised Agriculture Experience Programs. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Greenhouse Management Advanced Studies	GREENHOUSE MGMT AS	1	AS	01.0604
<p><i>Prerequisite: Greenhouse Management</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Horticulture Science	HORTICULTURE SCI	1	L1	01.1103
<p><i>Prerequisite: None</i></p> <p>This course is an introductory course into the horticulture industry. Areas of study include scientific investigations in horticulture, basic plant processes and anatomy, soils, plant propagation, plant growth requirements, cultivation practices, business management, horticulture and environment, and leadership and career skills. An essential part of this course will be leadership activities and Supervised Agriculture Experience Programs.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Landscaping I	LANDSCAPING I	1	L2	01.0605
<p><i>Prerequisite: Agriculture Science I or Horticulture Science</i></p> <p>This course is a continuation of Ag Science I or Horticulture Science I. This course is designed to provide students with instruction in many aspects of the landscape industry, including safety, plant identification, analyzing the landscape site, designing the landscape, selecting plants for the design, hardscaping, turf installation and management, pruning, and integrated pest management. The use of technology is an integral part of this course. An essential part of this course will be leadership activities and Supervised Agriculture Experience Programs. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Landscaping II	LANDSCAPING II	1	L3C	01.0605
<p><i>Prerequisite: Landscaping I</i></p> <p>This course is a continuation of Landscaping I. This course is designed to provide students with advanced instruction in landscaping including: applying the principles and elements of design, selecting plant materials, hardscaping, irrigation, installation techniques and integrated pest management. The use of technology is an integral part of this course. An essential part of this course will be leadership activities and Supervised Agriculture Experience Programs. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Landscaping Advanced Studies	LANDSCAPING AS	1	AS	01.0605
<p><i>Prerequisite: Landscaping II</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Natural Resources and Wildlife Management	NAT RES MGMT	1	L3C	03.0601
<p><i>Prerequisite: Agriculture Science II</i></p> <p>This course is a continuation of Agriculture Science II. This course introduces advanced agriculture students to concepts of natural resource science and management. This will include ecological concepts and scientific principles, rangeland management, fire ecology, GPS and GIS, fish and wild ecology, forestry, renewable and nonrenewable resources, and fish and wildlife management. An essential part of this course will be leadership activities and Supervised Agriculture Experience Programs. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Natural Resources and Wildlife Management Advanced Studies	NAT RES MGMT AS	1	AS	03.0601
<p><i>Prerequisite: Natural Resources and Wildlife Management</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Plant Science and Ornamental Horticulture	PLANT SCI HORT	1	L2	01.0603
<p><i>Prerequisite: Agriculture Science I or Horticulture Science</i></p> <p>This course is a continuation of Agriculture Science I or Horticulture Science. This course is designed to introduce the intermediate agriculture student to the skills and knowledge needed in order to successfully grow and care for plants. Areas emphasized include: plant anatomy and physiology, plant identification, propagation, growing media, nutrition, and plant technologies. An essential part of this course will be leadership activities and Supervised Agriculture Experience Programs. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Veterinary Science I	VETERINARY SCI I	1	L1	51.0808
<p><i>Prerequisite: None</i></p> <p>This course is an exploration of veterinary medicine industry. It is designed to introduce agriculture students to career paths in veterinary settings and acquire a basic knowledge of the veterinary industry. Topics to be covered include basic anatomy and physiology, animal health and nutrition, and animal care. An essential part of this course will be leadership activities and Supervised Agriculture Experience Programs. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Veterinary Science II	VETERINARY SCI II	1	L2	51.0808
<p><i>Prerequisite: Veterinary Science I</i></p> <p>This course is a continuation of Veterinary Science I. This course is designed to continue the development of skills necessary in the veterinary medicine field. Topics to be covered may include practices and procedures in the veterinary clinical setting. An essential part of this course will be leadership activities and Supervised Agriculture Experience Programs. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Veterinary Science III	VETERINARY SCI III	1	L3C	51.0808
<p><i>Prerequisite: Agriculture Science II or Veterinary Science II</i></p> <p>This course is a continuation of Agriculture Science II and Veterinary Science II. This course is designed to introduce advanced agriculture students to the technical understanding and working knowledge of the veterinary industry. Topics to be covered include practices in the veterinary clinical setting, medical terminology, medical math, clinical examination, laboratory techniques, diseases and disorders, nutrition, clinical and office procedures, and ethical and welfare issues. An essential part of this course will be leadership activities and Supervised Agriculture Experience Programs. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Veterinary Science Advanced Studies	VETERINARY SCI AS	1	AS	51.0808
<p><i>Prerequisite: Veterinary Science III</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				

WORK EXPERIENCE:

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Work Experience – Agriculture Food and Natural Resources	WORK EXPER AFNR	1	WK	99.0001
<p><i>Prerequisite: None</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth work experience that applies the processes, concepts, and principles as described in the classroom instruction. This course will encourage students to explore and develop advanced skills through work-based learning directly related to the program of study. The course must follow NAC 389.562, 389.564, 389.566 regulations.</p>				

BUSINESS & MARKETING EDUCATION

CAREER CLUSTERS & PROGRAM ALIGNMENT



*Business, Management
& Administration*

Business, Management & Administration

- Administrative Services
- Business Management



Finance

Finance

- Accounting & Finance



*Marketing,
Sales & Service*

Marketing, Sales & Service

- Entrepreneurship
- Fashion Merchandising
- Marketing
- Sports & Entertainment Marketing

PROGRAM COURSE SEQUENCES

BUSINESS & MARKETING EDUCATION		
BUSINESS, MANAGEMENT & ADMINISTRATION		
Program Name	Course Sequence	State Skill Standards*
Administrative Services	<u>Core Course Sequence</u> Business Software Applications Office Management I Office Management II <u>Complementary Course(s)</u> Office Management Advanced Studies	Administrative Services
Business Management	<u>Core Course Sequence</u> Principles of Business and Marketing ◇ Business Management I Business Management II <u>Complementary Course(s)</u> Business Management Advanced Studies	Business Management
	<u>High School of Business™</u> HSB-Principles of Business / HSB-Business Economics HSB-Principles of Marketing / HSB-Principles of Finance HSB-Principles of Management / HSB-Business Strategies <u>Complementary Course(s)</u> HSB-Leadership HSB-Wealth Management	
FINANCE		
Program Name	Course Sequence	State Skill Standards*
Accounting and Finance	<u>Core Course Sequence</u> Accounting and Finance I Accounting and Finance II Accounting and Finance III <u>Complementary Course(s)</u> Accounting and Finance Advanced Studies	Accounting and Finance

* The Employability Skills for Career Readiness Standards must be an integrated component of all CTE course sequences.

◇ Course description listed in the Marketing, Sales & Service section

MARKETING, SALES & SERVICE		
Program Name	Course Sequence	State Skill Standards*
Entrepreneurship	<u>Core Course Sequence</u> Principles of Business and Marketing Entrepreneurship I Entrepreneurship II <u>Complementary Course(s)</u> Entrepreneurship Advanced Studies	Entrepreneurship
Fashion Merchandising	<u>Core Course Sequence</u> Fashion Merchandising I Fashion Merchandising II <u>Complementary Course(s)</u> Fashion Merchandising Advanced Studies	Fashion, Textiles & Design
Marketing	<u>Core Course Sequence</u> Principles of Business and Marketing Marketing I Marketing II <u>Complementary Course(s)</u> Marketing Advanced Studies	Marketing
Sports and Entertainment Marketing	<u>Core Course Sequence</u> Principles of Business and Marketing Sports and Entertainment Marketing I Sports and Entertainment Marketing II <u>Complementary Course(s)</u> Sports and Entertainment Marketing Advanced Studies	Sports and Entertainment Marketing *TBD*

* The Employability Skills for Career Readiness Standards must be an integrated component of all CTE course sequences.

COURSE DESCRIPTIONS

BUSINESS, MANAGEMENT & ADMINISTRATION

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Business Management I	BUS MGMT I	1	L2	52.0201
<p><i>Prerequisite: Principles of Business and Marketing</i></p> <p>This course is a continuation of the Business Management program. The course addresses several types of management, including customer relationship management, human resources management, information management, knowledge management, project management, quality management, risk management, and strategic management. Economics, finance, operations, and professional development are also emphasized throughout the course. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Business Management II	BUS MGMT II	1	L3C	52.0201
<p><i>Prerequisite: Business Management I</i></p> <p>This course is a continuation of the Business Management program and focuses predominantly on financial analysis that supports economic decision-making in business. It includes specialist- and management-level skills such as interpreting financial statements; calculating financial ratios; developing budgets; forecasting sales; and much more. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Business Management Advanced Studies	BUS MGMT AS	1	AS	52.0201
<p><i>Prerequisite: Business Management II</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Business Software Applications	BUS SOFT APPS	1	L1	52.0407
<p><i>Prerequisite: None</i></p> <p>This course is for entry-level students in Administrative Services. This program prepares students for jobs in an office or business setting in the area of administrative support and office management. This course emphasizes skills in standard industry software. Students will gain proficiency of advanced web functions, word-processing applications, spreadsheet applications, presentation applications and database applications as they are used in a business environment. Student will understand and abide by policies for technology.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
HSB-Business Economics	HSB BUS ECONOMICS	.5	L1	52.0601
<p><i>Prerequisite: HSB-Principles of Business</i></p> <p>*Schools must be affiliated with the High Schools of Business™ program to offer this course*</p> <p>In Business Economics, a project-based business course, students expand their understanding that businesses are influenced by external factors that are often beyond their control. Consumer spending, government policies, economic conditions, legal issues, and global competition are addressed through practical, current applications to everyday societal and business life. Decision matrices are introduced, and the importance and costs of quality are stressed. Students develop their knowledge and skills in such areas as economics, entrepreneurship, operations, and professional development. Throughout the course, students will be presented with current economic problems for which they are asked to determine solutions, often through the application of decision matrices</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
HSB-Business Strategies	HSB BUS STRATEGY	.5	L3C	52.0299
<p><i>Prerequisite: HSB-Principles of Management</i></p> <p>*Schools must be affiliated with the High Schools of Business™ program to offer this course*</p> <p>Business Strategies serves as the capstone course for the High School of Business™ program. Students employ their decision matrices to finalize marketing, financial, and management plans developed previously, incorporating them into a business plan for a non-profit organization. The non-profit venture is actualized during the course, requiring students to engage in risk assessment, strategic planning, and performance assessment.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
HSB-Leadership	HSB LEADERSHIP	.5	L1	52.0213
<p><i>Prerequisite: None</i></p> <p>*Schools must be affiliated with the High Schools of Business™ program to offer this course*</p> <p>Leadership, a project-based leadership course, develops student understanding and skills in such areas as communication skills, emotional intelligence, operations, and professional development. Students acquire an understanding and appreciation of the need for leadership skills. To encourage immediate implementation of leadership skills, Leadership utilizes an on-going service-learning project for course delivery and reinforcement. The course content is sequenced for students to identify, plan, implement, and evaluate a service-learning project based on the needs of their community/school. Throughout the course, students are presented problem-solving situations for which they must apply academic and critical-thinking skills. Formal reflection is an on-going component of the course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
HSB-Principles of Business	HSB PRIN BUSINESS	.5	L1	52.0101
<p><i>Prerequisite: None</i></p> <p>*Schools must be affiliated with the High Schools of Business™ program to offer this course*</p> <p>Principles of Business, a project-based business course, develops student understanding and skills in such areas as business law, economics, financial analysis, human resources management, information management, marketing, operations, and strategic management. Through the use of three projects, students acquire an understanding and appreciation of the business world. They develop a business analysis report, conduct an environmental scan of the local business community, and investigate business activities. Current technology will be used to acquire information and to complete the projects. Throughout the course, students are presented problem-solving situations for which they must apply academic and critical-thinking skills. Formal reflection is an on-going component of the course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
HSB-Principles of Finance	HSB PRIN FINANCE	.5	L2	52.0801
<p><i>Prerequisite: HSB-Principles of Marketing</i></p> <p>*Schools must be affiliated with the High Schools of Business™ program to offer this course*</p> <p>Principles of Finance furthers student understanding of two specific business activities—accounting and finance—that were introduced in an earlier High School of Business course, Principles of Business. Through multiple projects, students make connections between accounting, with an emphasis on cash flow, and finance, with an emphasis on decision-making. Students acquire an understanding of financial statements, calculate financial ratios, and make business decisions based on their interpretation of those financial statements and ratios. In addition, students determine business-financing options, as well as develop an appreciation for types of financial service providers and financial markets. Decision matrices are employed to aid in financial planning.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
HSB-Principles of Management	HSB PRIN MGMT	.5	L3	52.0201
<p><i>Prerequisite: HSB- Principles of Finance</i></p> <p>*Schools must be affiliated with the High Schools of Business™ program to offer this course*</p> <p>Principles of Management is a project-based business course that expands student understanding of management. Students acquire an appreciation for aspects of management, such as project management, human resources management, knowledge management, quality management, and risk management. In addition, ethical and legal considerations affecting business activities are stressed, and students develop managerial and supervisory skills through interaction with lower grade-level High School of Business™ students. Decision matrices are employed to aid in management planning.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
HSB-Principles of Marketing	HSB PRIN MKTG	.5	L2	52.1401
<p><i>Prerequisite: HSB-Business Economics</i></p> <p>*Schools must be affiliated with the High Schools of Business™ program to offer this course*</p> <p>Principles of Marketing is a project-based business course that develops student understanding and skills in the functional areas of marketing: channel management, marketing-information management, market planning, pricing, product/service management, promotion, and selling. Students acquire an understanding and appreciation of each of the marketing functions and their ethical and legal issues. Decision matrices are employed to aid in market planning.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
HSB-Wealth Management	HSB WEALTH MGMT	.5	L1	52.0804
<p><i>Prerequisite: None</i></p> <p>*Schools must be affiliated with the High Schools of Business™ program to offer this course*</p> <p>This project-based financial literacy and investment course develops student understanding and skills in such areas as personal finance, types of investment, the stock market, and stock valuation. Students acquire an understanding and appreciation of the need for personal financial management and investing. To encourage immediate implementation of financial literacy and investment skills, Wealth Management utilizes an on-going investment project for course delivery and reinforcement. The course content is sequenced for students to develop a diversified, balanced investment portfolio based both on their interest in products and companies and on fundamental analysis. Throughout the course, students are presented problem-solving situations for which they must apply academic and critical-thinking skills.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Introduction to Business	INTRO BUSINESS	.5	PL1	52.0204
<p><i>Prerequisite: None</i></p> <p>This half-credit course provides introductory instruction in an abbreviated schedule format to the fundamentals of business and gives students a chance to explore how the world of business operates. Students will look at the different functions, basic business principles, marketing management, business structure, human resources, and economics.</p> <p>Please note: This course is not exploratory in nature; rather, it is designed to introduce concepts included in the Business Management, Administrative Services, or Accounting and Finance State Standards. Students will be prepared to enter the L1 course outlined in the course sequences for these program areas. This pre-level 1 (PL1) course is currently scheduled to be phased out after the 2013-14 school year. All school districts are encouraged to start students with the L1 course, the first full-credit course in the program area sequence.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Office Management I	OFFICE MGMT I	1	L2	52.0204
<p><i>Prerequisite: Business Software Applications</i></p> <p>This course is a continuation of the Administrative Services programs. Students will learn occupational skills in accounting such as recording business transactions, posting journal and ledger entries, and preparing financial statements. Students will be introduced to standard accounting software and expand their knowledge of standard office software. Additionally, an introduction to laws related to business practices, organizational structures and interpersonal office skills will be covered. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Office Management II	OFFICE MGMT II	1	L3C	52.0204
<p><i>Prerequisite: Office Management I</i></p> <p>This course is a continuation of the Administrative Services program and prepares students for work in an office or business environment. Students will learn and apply advanced skills in office technology and software commonly used in today's work environment. This course also includes the understanding of employment law and supervision. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Office Management Advanced Studies	OFFICE MGMT AS	1	AS	52.0204
<p><i>Prerequisite: Office Management II</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				

WORK EXPERIENCE:

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Work Experience – Business Management and Administration	WORK EXPER BUS ADM	1	WK	99.0004
<p><i>Prerequisite: None</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth work experience that applies the processes, concepts, and principles as described in the classroom instruction. This course will encourage students to explore and develop advanced skills through work-based learning directly related to the program of study. The course must follow NAC 389.562, 389.564, 389.566 regulations.</p>				

FINANCE

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Accounting and Finance I	ACCT FINANCE I	1	L1	52.0304
<p><i>Prerequisite: None</i></p> <p>This course is an introduction to both accounting and finance. This course is an introduction to accounting processes, practices, and concepts as well as an introduction to the world of finance. Topics include debits and credits, career pathways, and a survey of the many industries associated with accounting and finance such as accounting, banking, insurance and investments. Students will be introduced to standard accounting software.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Accounting and Finance II	ACCT FINANCE II	1	L2	52.0304
<p><i>Prerequisite: Accounting and Finance I</i></p> <p>This course is a continuation of Accounting and Finance I. Students will learn occupational skills in accounting such as recording business transactions, preparing financial statements, maintaining cash controls and calculating financial ratios. Students will practice using standard accounting software and apply generally accepted accounting principles. Topics will also include regulations related to the banking and finance industries, how managers use financial information generated by accounting departments to influence decision-making. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Accounting and Finance III	ACCT FINANCE III	1	L3C	52.0304
<p><i>Prerequisite: Accounting and Finance II</i></p> <p>This course is a continuation of Accounting and Finance II. Students will learn advanced occupational skills in accounting and how they relate to reports used by managers and directors. Students will learn the importance of accounting data in making decisions through an understanding of financial reports such as profit and loss statements, cash flow statements and pro forma statements. Ethics and regulations will be a discussed throughout this course. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Accounting and Finance Advanced Studies	ACCT FINANCE AS	1	AS	52.0304
<p><i>Prerequisite: Accounting and Finance III</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
NAF-Applied Finance	NAF APPLIED FINC	.5	L3	52.0801
<p><i>Prerequisite: Must complete 2 or more Level 2 (L2) NAF courses</i></p> <p>*Schools must be affiliated with the National Academy Foundation™ program to offer this course*</p> <p>Applied Finance delves into the financial concepts introduced in Principles of Finance. Students learn to identify the legal forms of business organization and continue to develop an understanding of profit. They learn about various financial analysis strategies and the methods by which businesses raise capital. Students also have the chance to explore, in depth, topics of high interest in the field of finance, and explore the types of careers that exist in finance today.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
NAF-Business Economics	NAF BUS ECON	.5	L2	52.0601
<p><i>Prerequisite: Must complete 1 or more Level 1 (L1) NAF courses</i></p> <p>*Schools must be affiliated with the National Academy Foundation™ program to offer this course*</p> <p>Business Economics introduces students to the key concepts of economics as they pertain to business. This course discusses the American economy and the factors that influence the success of businesses and products. It describes forms of business ownership, discusses the relationship of labor and business, and provides a broad overview of the global economy. Students also examine careers in business, both as employees and as business owners.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
NAF-Business in a Global Economy	NAF BUS GLOB ECON	.5	L2	45.0605
<p><i>Prerequisite: Must complete 1 or more Level 1 (L1) NAF courses</i></p> <p>*Schools must be affiliated with the National Academy Foundation™ program to offer this course*</p> <p>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 available to those businesses.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
NAF-Entrepreneurship	NAF ENTREPRENUER	.5	L2	52.0701
<p><i>Prerequisite: Must complete 1 or more Level 1 (L1) NAF courses</i></p> <p>*Schools must be affiliated with the National Academy Foundation™ program to offer this course*</p> <p>Entrepreneurship introduces students to the critical role entrepreneurs play in the national and global economy. Students learn the skills, attitudes, characteristics, and techniques necessary to become successful entrepreneurs. They explore starting a business and learn about the operational issues and financial risks that new businesses face. Students examine ethical issues and develop a framework for managing them.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
NAF-Ethics in Business	NAF ETHICS IN BUS	.5	L2	38.0104
<p><i>Prerequisite: Must complete 1 or more Level 1 (L1) NAF courses</i></p> <p>*Schools must be affiliated with the National Academy Foundation™ program to offer this course*</p> <p>This course introduces the importance of ethics in business. Students focus on the significance of ethics to stakeholders; examine who bears responsibility for monitoring ethics; and explore ethical situations common in organizations. Students examine how ethics affects various business disciplines and consider the impact of organizational culture. Students also explore ethics as social responsibility, the evolution of ethics in international business, and how the free market and ethics can coexist.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
NAF-Financial Planning	NAF FINC PLANNING	.5	L2	52.0804
<p><i>Prerequisite: Must complete 1 or more Level 1 (L1) NAF courses</i></p> <p>*Schools must be affiliated with the National Academy Foundation™ program to offer this course*</p> <p>Financial Planning provides students with an overview of the job of a financial planner. Students learn to consider how all aspects of financial planning might affect a potential client, and learn about the importance of financial planning in helping people reach their life goals. This course includes lessons on saving, borrowing, credit, and all types of insurance, and covers various types of investments. Students also examine careers in financial planning.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
NAF-Financial Services	NAF FINC SERVICES	.5	L2	52.0803
<p><i>Prerequisite: Must complete 1 or more Level 1 (L1) NAF courses</i></p> <p>*Schools must be affiliated with the National Academy Foundation™ program to offer this course*</p> <p>This course gives students an overview of banks and other financial services companies. It introduces students to the origins of money and banking and examines the early history of banking in the United States. Students study the financial services industry and the types of companies it includes in depth. They learn about the services offered by such companies and analyze the ways these companies earn profits. Finally, students examine careers in financial services.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
NAF-Insurance	NAF INSURANCE	.5	L2	52.1701
<p><i>Prerequisite: Must complete 1 or more Level 1 (L1) NAF courses</i></p> <p>*Schools must be affiliated with the National Academy Foundation™ program to offer this course*</p> <p>This course introduces students to the insurance industry and to its critical role in the financial services sector and in society. It covers common types of insurance, including life, health and disability, property, liability, and forms of commercial insurance. Students examine the business model underlying the industry and how underwriting, actuarial science, and investment practices affect an insurance company's financial success.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
NAF-Managerial Accounting	NAF MANAGE ACCT	.5	L2	52.0305
<p><i>Prerequisite: Must complete 1 or more Level 1 (L1) NAF courses</i></p> <p>*Schools must be affiliated with the National Academy Foundation™ program to offer this course*</p> <p>Managerial Accounting introduces the fundamentals of management accounting, including manufacturing and cost accounting, budgeting, accounting for managerial decision-making, and financial statement analysis. Students learn how to use accounting information for internal decision-making and planning and control. Regardless of the career path they choose, this course gives students the financial acumen necessary to make informed personal and business decisions.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
NAF-Principles of Accounting	NAF PRIN ACCT	.5	L1	52.0301
<p><i>Prerequisite: None</i></p> <p>*Schools must be affiliated with the National Academy Foundation™ program to offer this course*</p> <p>Principles of Accounting provides students with an understanding of the accounting process and how it facilitates decision making by providing data and information to internal and external stakeholders. Students learn that accounting is an integral part of all business activities. They learn how to apply technology to accounting by creating formulas and inputting data into spreadsheets.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
NAF-Principles of Finance	NAF PRIN FINC	.5	L1	52.0801
<p><i>Prerequisite: None</i></p> <p>*Schools must be affiliated with the National Academy Foundation™ program to offer this course*</p> <p>This is the first course students take in the Academy of Finance and introduces students to the financial world. Students develop financial literacy as they learn about the function of finance in society. They study income and wealth; examine financial institutions; learn how businesses raise capital; and study key investment-related terms and concepts. They also research how innovations have changed the financial services field. Finally, students explore careers that exist in finance today.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Personal Finance	PERSONAL FINANCE	.5	PL1	52.0809
<p><i>Prerequisite: None</i></p> <p>This half-credit course provides introductory instruction in an abbreviated schedule format to the fundamentals of policies and processes contributing to successful individual and family resource management. This course will focus on setting financial goals, making sound financial decisions, managing a checking account, working with a bank, controlling spending, developing a savings plan, using credit to build wealth, and understanding debt.</p> <p>Please note: This course is not exploratory in nature; rather, it is designed to introduce concepts included in the Business Management, Administrative Services, Accounting and Finance, or Marketing State Standards. Students will be prepared to enter the L1 course outlined in the course sequences for these program areas. This pre-level 1 (PL1) course is currently scheduled to be phased out after the 2013-14 school year. All school districts are encouraged to start students with the L1 course, the first full-credit course in the program area sequence.</p>				

WORK EXPERIENCE:

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Work Experience – Finance	WORK EXPER FINANCE	1	WK	99.0006
<p><i>Prerequisite: None</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth work experience that applies the processes, concepts, and principles as described in the classroom instruction. This course will encourage students to explore and develop advanced skills through work-based learning directly related to the program of study. The course must follow NAC 389.562, 389.564, 389.566 regulations.</p>				

MARKETING, SALES & SERVICE

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Entrepreneurship I	ENTREPRENEUR I	1	L2	52.0701
<p><i>Prerequisite: Principles of Business and Marketing</i></p> <p>This course is a continuation of the Entrepreneurship program. Students will gain knowledge in the nature and scope of entrepreneurship, the impact of entrepreneurship on market economies, marketing functions and economic concepts related to entrepreneurship. Personal traits and behaviors of a successful entrepreneur are also examined. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Entrepreneurship II	ENTREPRENEUR II	1	L3C	52.0701
<p><i>Prerequisite: Entrepreneurship I</i></p> <p>This course is a continuation of the Entrepreneurship program. Students will expand their knowledge of the nature and scope of entrepreneurship, the impact of entrepreneurship on market economies, marketing functions and economic concepts related to entrepreneurship. Business plan development is the key tool by which students will learn concepts. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Entrepreneurship Advanced Studies	ENTREPRENEUR AS	1	AS	52.0701
<p><i>Prerequisite: Entrepreneurship II</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Fashion Merchandising I	FASHION MERCH I	1	L1	52.1902
<p><i>Prerequisite: None</i></p> <p>This course is designed to provide students with the fundamentals of the fashion merchandising industry. Areas of study include clothing needs, fads, fashion, textiles, styles, design and construction, and fashion promotion.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Fashion Merchandising II	FASHION MERCH II	1	L2C	52.1902
<p><i>Prerequisite: Fashion Merchandising I</i></p> <p>This course is a continuation of Fashion Merchandising I. This course provides advanced fashion merchandising students with instruction in advanced techniques and processes. This course allows advanced fashion merchandising students to develop their knowledge and skills attained in Fashion Merchandising I. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Fashion Merchandising Advanced Studies	FASHION MERCH AS	1	AS	52.1902
<p><i>Prerequisite: Fashion Merchandising II</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Marketing I	MARKETING I	1	L2	52.1401
<p><i>Prerequisite: Principles of Business and Marketing</i></p> <p>This course is a continuation of the Marketing and Entrepreneurship programs. Students will learn and practice skills in the functional areas of marketing: channel management, marketing-information management, market planning, market research, pricing, promotion, product management and professional selling. Ethical and legal issues of these functions will be covered. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Marketing II	MARKETING II	1	L3C	52.1401
<p><i>Prerequisite: Marketing I</i></p> <p>This course is a continuation of the Marketing and Entrepreneurship programs. Students will learn and practice skills in the functional areas of marketing: channel management, marketing-information management, market planning, market research, pricing, promotion, product management and professional selling. Ethical and legal issues of these functions will be covered. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Marketing Advanced Studies	MARKETING AS	1	AS	52.1401
<p><i>Prerequisite: Marketing II</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Principles of Business and Marketing	PRIN BUS MKTG	1	L1	52.0101
<p><i>Prerequisite: None</i></p> <p>This course is an entry-level course in the Business Management, Entrepreneurship, Marketing, and Sports & Entertainment Marketing programs that develops student understanding and skill in areas such as business law, communications, customer relations, economics, information management, marketing, and operations. Students acquire knowledge of fundamental business and marketing activities, factors affecting business, develop verbal and written communications skill, and participate in career exploration and planning.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Sports and Entertainment Marketing I	SPORTS MKTG I	1	L2	52.1499
<p><i>Prerequisite: Principles of Business and Marketing</i></p> <p>This course is a continuation of a Sports and Entertainment Marketing program. Students will advance their knowledge and skills in promotion, pricing, channel management, marketing-information management, market planning, market research, promotion, product management and professional selling as it relates to sports and entertainment. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Sports and Entertainment Marketing II	SPORTS MKTG II	1	L3C	52.1499
<p><i>Prerequisite: Sports and Entertainment Marketing I</i></p> <p>This course is a continuation of a Sports and Entertainment Marketing program. Students will advance their knowledge and skills in promotion, pricing, marketing-information management, market research, and development of the marketing plan as it relates to sports and entertainment industries. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Sports and Entertainment Marketing Advanced Studies	SPORTS MKTG AS	1	AS	52.1499
<p><i>Prerequisite: Sports and Entertainment Marketing II</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				

WORK EXPERIENCE:

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Work Experience – Marketing Sales and Service	WORK EXPER MARKET	1	WK	99.0014
<p><i>Prerequisite: None</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth work experience that applies the processes, concepts, and principles as described in the classroom instruction. This course will encourage students to explore and develop advanced skills through work-based learning directly related to the program of study. The course must follow NAC 389.562, 389.564, 389.566 regulations.</p>				

EDUCATION, HOSPITALITY & HUMAN SERVICES

CAREER CLUSTERS & PROGRAM ALIGNMENT



Education & Training

- Early Childhood Education



Hospitality & Tourism

- Baking & Pastry
- Culinary Arts
- Hospitality & Tourism



Human Services

- Cosmetology
- Family & Consumer Sciences
- Foods & Nutrition
- Human Development

PROGRAM COURSE SEQUENCES

EDUCATION, HOSPITALITY & HUMAN SERVICES		
EDUCATION & TRAINING		
Program Name	Course Sequence	State Skill Standards*
Early Childhood Education	<u>Core Course Sequence</u> Early Childhood Education I Early Childhood Education II Early Childhood Education III <u>Complementary Course(s)</u> Child Development ◇ Early Childhood Education II LAB ** Early Childhood Education III LAB ** Early Childhood Education Advanced Studies	Early Childhood Education
HOSPITALITY & TOURISM		
Program Name	Course Sequence	State Skill Standards*
Baking and Pastry	<u>Core Course Sequence</u> Culinary Arts I Baking and Pastry I Baking and Pastry II <u>Complementary Course(s)</u> Baking and Pastry I LAB ** Baking and Pastry II LAB ** Baking and Pastry Advanced Studies	Baking and Pastry
Culinary Arts	<u>Core Course Sequence</u> Culinary Arts I Culinary Arts II Culinary Arts III <u>Complementary Course(s)</u> Foods and Nutrition I ◇ Culinary Arts II LAB ** Culinary Arts III LAB ** Culinary Arts Advanced Studies	Culinary Arts

* The Employability Skills for Career Readiness Standards must be an integrated component of all CTE course sequences.

** Lab courses are to be taught concurrently with the associated level course (i.e., level two course with the level two lab course) – see individual course descriptions for requirements and prerequisites.

◇ Course description listed in the Human Services section.

HOSPITALITY & TOURISM (CONT.)		
Program Name	Course Sequence	State Skill Standards*
Hospitality & Tourism	<u>Core Course Sequence</u> Travel and Tourism Hospitality Management I Hospitality Management II <u>Complementary Course(s)</u> Foundations of Hospitality Hospitality Management I LAB ** Hospitality Management II LAB ** Hospitality Management Advanced Studies	Hospitality & Tourism
HUMAN SERVICES		
Program Name	Course Sequence	State Skill Standards*
Cosmetology	<u>Core Course Sequence</u> Principles of Cosmetology Cosmetology I Cosmetology II	Cosmetology
Family and Consumer Sciences	<u>Core Course Sequence</u> Foods and Nutrition I Child Development Fashion Design and Construction I ◇ Family and Consumer Sciences <u>Complementary Course(s)</u> Housing and Interior Design I ◇	Family and Consumer Sciences
Foods and Nutrition	<u>Core Course Sequence</u> Foods and Nutrition I Foods and Nutrition II	Foods and Nutrition
Human Development	<u>Core Course Sequence</u> Human Development I Human Development II Human Development III <u>Complementary Course(s)</u> Human Development Advanced Studies	Human Development *TBD*

* The Employability Skills for Career Readiness Standards must be an integrated component of all CTE course sequences.

** Lab courses are to be taught concurrently with the associated level course (i.e., level two course with the level two lab course) – see individual course descriptions for requirements and prerequisites.

◇ Course Description is listed in the Arts, A/V Technology and Communication Section. (Information & Media Technologies)

COURSE DESCRIPTIONS

EDUCATION & TRAINING

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Early Childhood Education I	EARLY CHILD I	1	L1	13.1210
<p><i>Prerequisite: None</i></p> <p>This course provides students with an introduction to the principles of early childhood education. This course addresses child development, care, teaching and learning, so that students can guide the development of young children in an educational setting. Study typically includes planning and implementing developmentally appropriate activities, basic health and safety practices, and legal requirements for teaching young children. The appropriate use of technology and industry-standard equipment is an integral part of this course. Students will research the requirements of early childhood education careers and begin to develop a career portfolio.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Early Childhood Education II	EARLY CHILD II	1	L2	13.1210
<p><i>Prerequisite: Early Childhood Education I</i></p> <p>This course is a continuation of Early Childhood Education I. This course prepares intermediate early childhood education students to guide the development of young children in an educational setting. Course content includes child development, care, teaching and learning. Project-based learning experiences include planning and implementing developmentally appropriate activities, health and safety practices, and legal requirements of teaching young children. Students will expand their career portfolio. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Early Childhood Education II LAB	EARLY CHILD II L	1	L2L	13.1210
<p><i>Prerequisite: Concurrent enrollment in Early Childhood Education II</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in this program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Early Childhood Education III	EARLY CHILD III	1	L3C	13.1210
<p><i>Prerequisite: Early Childhood Education II</i></p> <p>This course is a continuation of Early Childhood Education II. This course provides advanced early childhood education students with instruction in advanced techniques and processes. Students will continue to develop all skills learned in Early Childhood Education I and II. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Early Childhood Education III LAB	EARLY CHILD III L	1	L3L	13.1210
<p><i>Prerequisite: Concurrent enrollment in Early Childhood Education III</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in this program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Early Childhood Education Advanced Studies	EARLY CHILD AS	1	AS	13.1210
<p><i>Prerequisite: Early Childhood Education III</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				

WORK EXPERIENCE:

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Work Experience – Education and Training	WORK EXPER EDUC	1	WK	99.0005
<p><i>Prerequisite: None</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth work experience that applies the processes, concepts, and principles as described in the classroom instruction. This course will encourage students to explore and develop advanced skills through work-based learning directly related to the program of study. The course must follow NAC 389.562, 389.564, 389.566 regulations.</p>				

HOSPITALITY & TOURISM

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Baking and Pastry I	BAKING I	1	L2	12.0501
<p><i>Prerequisite: Culinary Arts I</i></p> <p>This course is an option following Culinary Arts I. This course allows culinary students more in-depth study of baking and pastry arts. Areas of study include baking terminology, tool and equipment use, formula conversions, functions of ingredients, and methods used in creating breads, pastries, cookies, and other desserts. The fundamentals of dough and basic decorating skills are covered. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Baking and Pastry I LAB	BAKING I L	1	L2L	12.0501
<p><i>Prerequisite: Concurrent enrollment in Baking and Pastry I</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in this program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Baking and Pastry II	BAKING II	1	L3C	12.0501
<p><i>Prerequisite: Baking and Pastry I</i></p> <p>This course is a continuation of Baking and Pastry I. This course provides advanced baking students with instruction in advanced techniques and processes. They will continue to develop skills learned in Culinary Arts I and Baking and Pastry I. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Baking and Pastry II LAB	BAKING II L	1	L3L	12.0501
<p><i>Prerequisite: Concurrent enrollment in Baking and Pastry II</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in this program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Baking and Pastry Advanced Studies	BAKING AS	1	AS	12.0501
<p><i>Prerequisite: Baking and Pastry II</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Introduction to Culinary Arts	INTRO CUL ART	.5	PL1	12.0503
<p><i>Prerequisite: None</i></p> <p>This half-credit course provides introductory instruction in an abbreviated schedule format to the fundamentals of culinary arts. Students acquire basic skills in food handling, food and nutritional science, equipment technology, cooking methods, kitchen safety, and sanitation procedures.</p> <p>Please note: This course is not exploratory in nature; rather, it is designed to introduce concepts included in the Culinary Arts State Standards. Students will be prepared to enter the L1 course outlined in the course sequences for this program area. This pre-level 1 (PL1) course is currently scheduled to be phased out after the 2013-14 school year. All school districts are encouraged to start students with the L1 course, the first full-credit course in the program area sequence.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Culinary Arts I	CULINARY ART I	1	L1	12.0503
<p><i>Prerequisite: None</i></p> <p>This course provides students with an introduction to the principles and techniques of commercial food production. The classroom is patterned after industry with emphasis on the standards of food service occupations. Students acquire basic skills in food handling, food and nutritional science, equipment technology, cooking methods, kitchen safety, sanitation procedures, and employability skills.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Culinary Arts II	CULINARY ART II	1	L2	12.0503
<p><i>Prerequisite: Culinary Arts I</i></p> <p>This course is a continuation of Culinary Arts I. This course allows intermediate culinary students to build on fundamental skills developed in Culinary Arts I. Students will receive practical training in areas of food preparation, equipment use, and service. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Culinary Arts II LAB	CULINARY ART II L	1	L2L	12.0503
<p><i>Prerequisite: Concurrent enrollment in Culinary Arts II</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in this program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Culinary Arts III	CULINARY ART III	1	L3C	12.0503
<p><i>Prerequisite: Culinary Arts II</i></p> <p>This course is a continuation of Culinary Arts II. This course provides advanced culinary students with instruction in advanced techniques and processes. They will continue to develop all skills learned in Culinary Arts I and II. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Culinary Arts III LAB	CULINARY ART III L	1	L3L	12.0503
<p><i>Prerequisite: Concurrent enrollment in Culinary Arts III</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in this program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Culinary Arts Advanced Studies	CULINARY ART AS	1	AS	12.0503
<p><i>Prerequisite: Culinary Arts III</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Foundations of Hospitality	FOUN HOSPLTY	1	L1	52.0901
<p><i>Prerequisite: None</i></p> <p>This course is an introduction and survey course of the many career areas in the hospitality field. Students will learn the roles of jobs in both the "front of the house" and "back of the house" for food and beverage service and hotel operations. Travel and tourism and event sales and services will also be introduced.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Hospitality Management I	HOSPLTY MGMT I	1	L2	52.0904
<p><i>Prerequisite: Travel and Tourism</i></p> <p>This course is a continuation of the Hospitality Management program. This course is designed to align with the American Lodging Association's curriculum, teaching students all aspects of hotel operations including reservation systems, rooms division, customer service, food and beverage division, and staff division. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Hospitality Management I LAB	HOSPLTY MGMT I L	1	L2L	52.0904
<p><i>Prerequisite: Concurrent enrollment in Hospitality Management I</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Hospitality Management II	HOSPLTY MGMT II	1	L3C	52.0904
<p><i>Prerequisite: Hospitality Management I</i></p> <p>This course is a continuation of Hospitality Management I. This course is designed to align with the American Lodging Association's curriculum, teaching students all aspects of hotel operations including reservation systems, rooms division, food and beverage division and staff division. The appropriate use of technology and industry-standard equipment is an integral part of this course. Students may be prepared for industry certification through the American Lodging Association. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Hospitality Management II LAB	HOSPLTY MGMT II L	1	L3L	52.0904
<p><i>Prerequisite: Concurrent enrollment in Hospitality Management II</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Hospitality Management Advanced Studies	HOSPLTY MGMT AS	1	AS	52.0904
<p><i>Prerequisite: Hospitality Management II</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
NAF-Customer Service	NAF CUSTOMER SERV	.5	L1	52.0207
<p><i>Prerequisite: None</i></p> <p>*Schools must be affiliated with the National Academy Foundation™ program to offer this course*</p> <p>This course introduces students to the concept of service as a critical component of a hospitality or tourism business. Students analyze both good and poor customer service in a variety of contexts and through various methods. Students explore communication skills and strategies, and they use a problem-solving perspective to understand barriers to communication and good service. They learn various means of measuring the quality of service and explore careers that focus on customer service.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
NAF-Geography for Tourism	NAF GEO TOURISM	.5	L2	52.1906
<p><i>Prerequisite: Must complete 1 or more Level 1 (L1) NAF courses</i></p> <p>*Schools must be affiliated with the National Academy Foundation™ program to offer this course*</p> <p>This course introduces students to the importance of geography in the hospitality and tourism industry through the study of travel or "destination" geography. It introduces students to the concepts and vocabulary of geography as they explore the world's geographic regions, focusing on factors that create desirable travel destinations: weather/climate, physical features, cultural elements, and historical interest.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
NAF-Hospitality Marketing	NAF HOSPLTY MKTG	.5	L3	52.1910
<p><i>Prerequisite: Must complete 2 or more Level 2 (L2) NAF courses</i></p> <p>*Schools must be affiliated with the National Academy Foundation™ program to offer this course*</p> <p>Hospitality Marketing introduces students to the objectives, strategies, and tools that are important to marketing in the hospitality industry, expanding on topics introduced in Principles of Hospitality and Tourism. Students learn about each phase of marketing and the wide range of options that all marketing managers and business owners consider as they create, or revise, marketing plans. Students also explore career opportunities in the field of hospitality marketing.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
NAF-Principles of Hospitality and Tourism	NAF PRIN HOSPLTY	.5	L1	52.0901
<p><i>Prerequisite: None</i></p> <p>*Schools must be affiliated with the National Academy Foundation™ program to offer this course*</p> <p>This is the first course students take in the Academy of Hospitality & Tourism and provides an overview of the current hospitality and tourism industry. Students learn about the history of the industry, explore traveler motivation and consumer needs, the industry's economic and environmental impacts, domestic and international travel, and sales in tourism. Finally, students explore careers in the hospitality and tourism industry.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
NAF-Sports, Entertainment and Event Planning	NAF EVENT PLANNING	.5	L2	52.0907
<p><i>Prerequisite: Must complete 1 or more Level 1 (L1) NAF courses</i></p> <p>*Schools must be affiliated with the National Academy Foundation™ program to offer this course*</p> <p>This course introduces students to the skills and knowledge required in the event planning profession. After studying the steps involved in planning a special event, students learn about event planning in sports. They then examine the unique requirements of event planning in entertainment and the performing arts. Students gain valuable experience in project management that can be applied to any career path. They also examine careers in the field of event planning.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
NAF-Sustainable Tourism	NAF SUSTAIN TOUR	.5	L2	52.1999
<p><i>Prerequisite: Must complete 1 or more Level 1 (L1) NAF courses</i></p> <p>*Schools must be affiliated with the National Academy Foundation™ program to offer this course*</p> <p>This course introduces students to the profound changes taking place worldwide in the tourism industry. Students examine the environmental and socioeconomic impacts and interrelationships of tourism, as well as the transition to a greener tourism economy. They explore the ramifications of tourism development in terms of increased sustainability, profitability, and benefits to the surrounding communities, and they examine ecotourism as a model for sustainability.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Travel and Tourism	TRAVEL TOURISM	1	L1	52.0903
<p><i>Prerequisite: None</i></p> <p>This course provides students an overview of the travel and tourism industry and its relationship to the overall hospitality industry. Students will learn concepts of economics, lodging and transportation, wholesale and retail travel services, conventions, sales and marketing, ecotourism, and destination marketing.</p>				

WORK EXPERIENCE:

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Work Experience – Hospitality and Tourism	WORK EXPER HOSP	1	WK	99.0009
<p><i>Prerequisite: None</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth work experience that applies the processes, concepts, and principles as described in the classroom instruction. This course will encourage students to explore and develop advanced skills through work-based learning directly related to the program of study. The course must follow NAC 389.562, 389.564, 389.566 regulations.</p>				

HUMAN SERVICES

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Child Development	CHILD DEVELOPMENT	1	L1	19.0706
<p><i>Prerequisite: None</i></p> <p>This course introduces the topic of child development. Areas of study include stages of development in infants, toddlers, and preschoolers. Also covered are reproduction, prenatal development, childbirth, and roles and responsibilities of parenthood.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Cosmetology I	COSMETOLOGY I	6	L2	12.0401
<p><i>Prerequisite: Principles of Cosmetology</i></p> <p>The six-credit-block course is designed to prepare students for the Nevada State Board of Cosmetology Licensing Exam and to meet the 1800-hour requirement for licensure. Students have the opportunity to receive a master license that allows them to choose many career options such as a nail technician, aesthetician, or hair stylist. Areas of study include theory and clinical instruction in professional ethics, sanitation, human anatomy, facials, skin care, makeup application, manicures, pedicures, acrylic nails, haircutting, hair coloring, permanent waving, chemical relaxing, and all phases of hair care. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Cosmetology II	COSMETOLOGY II	6	L3C	12.0401
<p><i>Prerequisite: Cosmetology I</i></p> <p>The six-credit-block course is designed to prepare students for the Nevada State Board of Cosmetology Licensing Exam and to meet the 1800-hour requirement for licensure. Students have the opportunity to receive a master license that allows them to choose many career options such as a nail technician, aesthetician, or hair stylist. Areas of study include theory and clinical instruction in professional ethics, sanitation, human anatomy, facials, skin care, makeup application, manicures, pedicures, acrylic nails, haircutting, hair coloring, permanent waving, chemical relaxing, and all phases of hair care. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Family and Consumer Sciences	FACS	1	L4C	19.0101
<p><i>Prerequisite: Child Development & Fashion Design and Construction I & Foods and Nutrition I</i></p> <p>This course is the capstone course for the Family and Consumer Sciences program of study. This course provides advanced studies in family and consumer sciences topics to prepare students for adult roles and responsibilities. The major focus is on developing skills for balancing home, work, and life by studying how to be successful with life management, wealth management, family development, home management, health and fitness, and leadership and community participation. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Foods and Nutrition I	FOODS I	1	L1	19.0501
<p><i>Prerequisite: None</i></p> <p>This course provides an introduction to the study of foods and nutrition. Emphasis is placed on exploring food choices and meal preparation in relation to nutrition, fitness, lifecycle, customs, and cooking methods.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Foods and Nutrition II	FOODS II	1	L2C	19.0501
<p><i>Prerequisite: Foods and Nutrition I</i></p> <p>This course is a continuation of Foods and Nutrition I. This course provides intermediate students with more advanced activities to develop their skills in food selection and preparation. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Human Development I	HUMAN DEVELOP I	1	L1	19.0701
<p><i>Prerequisite: None</i></p> <p>This course introduces the topic of Human Development. Areas of study include the stages of human growth and development throughout the lifespan with a focus on conception through childhood. Topics include developmental stages and influences on physical, intellectual, social and emotional growth.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Human Development II	HUMAN DEVELOP II	1	L2	19.0701
<p><i>Prerequisite: Human Development I</i></p> <p>This course is a continuation of Human Development I. This course allows intermediate human development students to increase their understanding of human growth and development throughout the lifespan with a focus on adolescence through young adulthood. Topics include developmental stages and influences on physical, intellectual, social and emotional growth.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Human Development III	HUMAN DEVELOP III	1	L3C	19.0701
<p><i>Prerequisite: Human Development II</i></p> <p>This course is a continuation of Human Development II. This course allows advanced human development students to increase their understanding of human growth and development throughout the lifespan with a focus on middle adulthood through late adulthood. Topics include developmental stages and influences on physical, intellectual, social and emotional growth. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Human Development Advanced Studies	HUMAN DEVELOP AS	1	AS	19.0701
<p><i>Prerequisite: Human Development III</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Principles of Cosmetology	PRIN COSMO	1	L1	12.0401
<p><i>Prerequisite: None</i></p> <p>This course introduces students to the fundamentals of cosmetology. Areas of study include sanitation procedures, safety requirements, tools, and equipment. The appropriate use of technology is an integral part of this course.</p>				

WORK EXPERIENCE:

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Work Experience – Human Services	WORK EXPER HU SERV	1	WK	99.0010

Prerequisite: None

This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth work experience that applies the processes, concepts, and principles as described in the classroom instruction. This course will encourage students to explore and develop advanced skills through work-based learning directly related to the program of study. The course must follow NAC 389.562, 389.564, 389.566 regulations.

HEALTH SCIENCE

&

PUBLIC SAFETY

CAREER CLUSTERS & PROGRAM ALIGNMENT



Health Science

- Biomedical
- Dental Assisting
- Emergency Medical Services
- Health Information Management
- Medical Assisting
- Nursing Assistant
- Pharmacy Technician
- Respiratory Therapy
- Sports Medicine



Law, Public Safety, Corrections & Security

- Criminal Justice
- Emergency Telecommunications
- Fire Science
- Forensic Science
- Law Enforcement

PROGRAM COURSE SEQUENCES

HEALTH SCIENCE & PUBLIC SAFETY		
HEALTH SCIENCE		
Program Name	Course Sequence	State Skill Standards*
Biomedical	<u>Core Course Sequence</u> Biomedical I Biomedical II Biomedical III <u>Complementary Course(s)</u> Biomedical Advanced Studies	Biomedical *TBD*
	<u>Project Lead The Way™ (PLTW):Biomedical Sciences</u> PLTW-Principles of Biomedical Sciences PLTW-Human Body Systems PLTW-Medical Interventions PLTW-Biomedical Innovation	
Dental Assisting	<u>Core Course Sequence</u> Health Science I Health Science II <i>or</i> Medical Terminology Dental Assisting I Dental Assisting II <u>Complementary Course(s)</u> Dental Assisting I LAB ** Dental Materials and Radiology Dental Assisting Advanced Studies	Health Science & Dental Assisting *TBD*
Emergency Medical Services	<u>Core Course Sequence</u> Health Science I Health Science II <i>or</i> Emergency Medical Services Emergency Medical Technician <u>Complementary Course(s)</u> Foundations of Public Safety ◇ Emergency Medical Technician LAB **	Health Science & Emergency Medical Technician
Health Information Management	<u>Core Course Sequence</u> Health Science I Health Information Management I Health Information Management II <u>Complementary Course(s)</u> Health Information Management Advanced Studies	Health Science & Health Information Management *TBD*

* The Employability Skills for Career Readiness Standards must be an integrated component of all CTE course sequences.

** Lab courses are to be taught concurrently with the associated level course (i.e., level two course with the level two lab course) – see individual course descriptions for requirements and prerequisites.

◇ Course description listed in the Law, Public Safety, Corrections & Security section.

HEALTH SCIENCE (CONT.)		
Program Name	Course Sequence	State Skill Standards*
Medical Assisting	<u>Core Course Sequence</u> Health Science I Health Science II <i>or</i> Medical Terminology Medical Assisting <u>Complementary Course(s)</u> Health Professions Health Professions LAB ** Medical Assisting LAB ** Medical Assisting Advanced Studies	Health Science & Medical Assisting *TBD*
Nursing Assistant	<u>Core Course Sequence</u> Health Science I Health Science II <i>or</i> Medical Terminology Nursing Assistant <u>Complementary Course(s)</u> Medical Anatomy Human Diseases Nursing Assistant LAB **	Health Science & Nursing Assistant *TBD*
Pharmacy Technician	<u>Core Course Sequence</u> Health Science I Health Science II <i>or</i> Medical Terminology Pharmacy Technician <u>Complementary Course(s)</u> Pharmacy Technician Advanced Studies	Health Science & Pharmacy Technician *TBD*
Respiratory Therapy	<u>Core Course Sequence</u> Health Sciences I Health Sciences II <i>or</i> Medical Terminology Respiratory Therapy I Respiratory Therapy II <u>Complementary Course(s)</u> Human Diseases Respiratory Therapy I LAB ** Respiratory Therapy Practices Respiratory Therapy II LAB **	Health Science & Respiratory Therapy *TBD*
Sports Medicine	<u>Core Course Sequence</u> Health Science I Sports Medicine I Sports Medicine II <u>Complementary Course(s)</u> Health Science II Sports Medicine Advanced Studies	Health Science & Sports Medicine *TBD*

* The Employability Skills for Career Readiness Standards must be an integrated component of all CTE course sequences.

** Lab courses are to be taught concurrently with the associated level course (i.e., level two course with the level two lab course) – see individual course descriptions for requirements and prerequisites.

LAW, PUBLIC SAFETY, CORRECTIONS & SECURITY		
Program Name	Course Sequence	State Skill Standards*
Criminal Justice	<u>Core Course Sequence</u> Criminal Justice I <i>or</i> Foundations of Public Safety Criminal Justice II Criminal Justice III <u>Complementary Course(s)</u> Criminal Justice Advanced Studies	Criminal Justice *TBD*
Emergency Telecommunications	<u>Core Course Sequence</u> Emergency Telecommunications I Emergency Telecommunications II <u>Complementary Course(s)</u> Foundations of Public Safety Emergency Telecommunications II LAB **	Emergency Telecommunications *TBD*
Fire Science	<u>Core Course Sequence</u> Fire Science I Fire Science II Entry Level Firefighting <u>Complementary Course(s)</u> Fire Science Advanced Studies	Fire Science
Forensic Science	<u>Core Course Sequence</u> Foundations of Public Safety Forensic Science I Forensic Science II <u>Complementary Course(s)</u> Forensic Photography Forensic Science Advanced Studies	Forensic Science *TBD*
Law Enforcement	<u>Core Course Sequence</u> Law Enforcement I <i>or</i> Foundations of Public Safety Law Enforcement II Law Enforcement III <u>Complementary Course(s)</u> Law Enforcement Advanced Studies	Law Enforcement

* The Employability Skills for Career Readiness Standards must be an integrated component of all CTE course sequences.

** Lab courses are to be taught concurrently with the associated level course (i.e., level two course with the level two lab course) – see individual course descriptions for requirements and prerequisites.

COURSE DESCRIPTIONS

HEALTH SCIENCE				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Biomedical I	BIOMEDICAL I	1	L1	26.0102
<p><i>Prerequisite: None</i></p> <p>This course introduces students to advanced science courses related to medical fields. Areas of investigation will include human body systems, infectious diseases, medical treatment, medical mysteries, and medical interventions. Topics include research processes, bioinformatics, HIPAA and human medicine. Practices incorporate an appreciation of alternative and culturally diverse healthcare contributions by different societies. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Biomedical II	BIOMEDICAL II	1	L2	26.0102
<p><i>Prerequisite: Biomedical I</i></p> <p>This course is a continuation of Biomedical I. This course allows intermediate biomedical students to develop their knowledge and skills learned in Biomedical I. Areas of study will include prevention, diagnosis, treatment, genetics, public health, and biomedical engineering. The students will be introduced to the interactions of the human body and design experiments to investigate the structure and function. Topics include safe practices in a workplace, homeostatic balance, protection, support, and movement. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Biomedical III	BIOMEDICAL III	1	L3C	26.0102
<p><i>Prerequisite: Biomedical II</i></p> <p>This course is a continuation of Biomedical II. This course provides advanced biomedical students with instruction in advanced techniques and processes. The students will be introduced to clinical medicine, physiology and biomedical engineering related to the human species and veterinary practices. Topics include scientific method, ethical considerations, innovative research, emergency room principles, and variety of disorders. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Biomedical Advanced Studies	BIOMEDICAL AS	1	AS	26.0102
<p><i>Prerequisite: Biomedical III</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Dental Assisting I	DENTAL ASST I	1	L3	51.0601
<p><i>Prerequisite: Health Science II or Medical Terminology</i></p> <p>This introductory course is designed for the student interested in a career in the dental field. It covers all procedures utilized in the dental office during the practice of dentistry. It gives students a vast knowledge base of dental anatomy, dental disease processes and treatment. It develops the dexterity, knowledge and communication skills needed to work as a dental assistant. Emphasis is placed on developing critical-thinking skills, research skills, and necessary techniques. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Dental Assisting I LAB	DENTAL ASST I L	1	L3L	51.0601
<p><i>Prerequisite: Concurrent enrollment in Dental Assisting I</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Dental Assisting II	DENTAL ASST II	1	L4C	51.0601
<p><i>Prerequisite: Dental Assisting I</i></p> <p>This course is a continuation of Dental Assisting I. This course allows advanced dental assisting students to develop their knowledge and skills learned in Dental Assisting I. Areas of study will include oral pathology, dental medications, legal and ethical issues, and research skills. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Dental Assisting Advanced Studies	DENTAL ASST AS	1	AS	51.0601
<p><i>Prerequisite: Dental Assisting II</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Dental Materials and Radiology	DENT MAT RADIOLOGY	1	L3	51.0601
<p><i>Prerequisite: Dental Assisting I</i></p> <p>This course provides students with the principles of dental materials and radiology. Areas of study include laboratory techniques, research skills, and radiology. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Emergency Medical Services	EMER MED SERVICES	1	L2	51.0810
<p><i>Prerequisite: Health Science I</i></p> <p>This course is a continuation of Health Science I. This entry-level course is designed for the student interested in a career in the pre-hospital emergency medical provider field. Areas of study include personal safety, patient transport (moving and lifting), basic first aid to include medical and trauma emergencies, and CPR. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Emergency Medical Technician	EMER MED TECH	1	L3C	51.0904
<p><i>Prerequisite: Health Science II or Emergency Medical Services</i></p> <p>This course is a continuation of Health Science II or Emergency Medical Services. This course is designed for the student interested in a career in the pre-hospital emergency medical provider field. Areas of study include legal and ethical issues, patient's airway, medical and trauma assessment, and medical documentation. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Emergency Medical Technician LAB	EMER MED TECH L	1	L3L	51.0904
<p><i>Prerequisite: Concurrent enrollment in Emergency Medical Technician</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Health Information Management I	HLTH INFO MGMT I	1	L2	51.0707
<p><i>Prerequisite: Health Science I or Medical Terminology</i></p> <p>This course is designed to familiarize students with computerized account management and to help students develop confidence and skills necessary to become successful users of Medical Account Management software. Areas of study include understanding the legal aspects of HIPAA and responsibilities of a medical office staff; utilizing a computer program to maintain patient files, store information, match CRT and diagnosis codes with treatment procedures and charges; creating insurance claim forms and following the claim until they are reimbursed and perform related tasks; and creating a professional resume and cover letter appropriate for applying for a medical assistant position in a medical practice. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Health Information Management II	HLTH INFO MGMT II	1	L3C	51.0707
<p><i>Prerequisite: Health Information Management I</i></p> <p>This course is a continuation of Health Information Management I. This course allows advanced health information management students to develop their knowledge and skills learned in Health Information Management I. Emphasis will be placed on advanced records management including EMR Software Programs. Reception office skills will cover telephone, scheduling, medical insurance, HIPAA and legal issues. This is an advanced class and will give students necessary practice and experience to work in a medical front office or related field. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Health Information Management Advanced Studies	HLTH INFO MGMT AS	1	AS	51.0707
<p><i>Prerequisite: Health Information Management II</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Health Professions	HLTH PROFESSIONS	1	L3	51.9999
<p><i>Prerequisite: Health Science II</i></p> <p>This course is designed to assist students in exploration of a range of health occupations to determine which field best suits their interests, strengths, and abilities. Areas of study include infectious diseases, genetics, medical ethics, nutrition, psychology, pediatrics gerontology, health education, anatomy/physiology, and communication for medical professionals. Students will also be exposed to traditional clinical settings, as well as non-clinical settings such as nutrition, health inspection, communicable diseases, counseling, and alternative medicine. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Health Professions LAB	HLTH PROFESSIONS L	1	L3L	51.9999
<p><i>Prerequisite: Concurrent enrollment in Health Professions</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Health Science I	HEALTH SCIENCE I	1	L1	51.0000
<p><i>Prerequisite: None</i></p> <p>This course will introduce students to human structure and function. Areas of study include anatomy, healthcare delivery systems, medical terminology, emergency management, health information technology, and legal practices. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Health Science II	HEALTH SCIENCE II	1	L2	51.0000
<p><i>Prerequisite: Health Science I</i></p> <p>This course is a continuation of Health Science I. This course provides advanced health science students with instruction in advanced techniques and processes. Areas of study include medical ethics, hazardous materials, and safety in the workplace, epidemiology, and green practices in healthcare. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this program, students will be prepared for entry into a medical program at the college level.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Human Diseases	HUMAN DISEASES	1	L1	51.0999
<p><i>Prerequisite: None</i></p> <p>This course is designed to expose students to information about human diseases, injuries, and conditions of each body system. Students will utilize previously-learned information regarding normal structure and function and assessment to develop an understanding of disease, injury, and condition processes. Case studies will be used to stimulate problem-solving and critical-thinking skills. Additionally, students will study medical asepsis and disease control and wellness and disease prevention.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Medical Anatomy	MEDICAL ANATOMY	1	L1	26.0403
<p><i>Prerequisite: None</i></p> <p>This course is a survey of the fundamentals of anatomy and physiology. This course is designated as honors level by the accelerated pacing and depth of content. Topics focus on the interrelationships of human body systems that include laboratory experiences, demonstrations, and dissections. Problem solving and case study analysis are an integral part of this course. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Medical Assisting	MEDICAL ASST	1	L3C	51.0801
<p><i>Prerequisite: Health Science II</i></p> <p>This course provides advanced health science students with the skills required for entry-level positions such as administrative medical assistant or clinical medical assistant. Demonstrations and laboratory experiences are an integral part of this course. Instructional practices incorporate integration of diversity awareness including appreciation of all cultures and their important contributions to our society. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Medical Assisting LAB	MEDICAL ASST L	1	L3L	51.0801
<p><i>Prerequisite: Concurrent enrollment in Medical Assisting</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Medical Assisting Advanced Studies	MEDICAL ASST AS	1	AS	51.0801
<p><i>Prerequisite: Medical Assisting</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Medical Terminology	MEDICAL TERM	1	L2	51.0899
<p><i>Prerequisite: Health Science I</i></p> <p>This course is designed to introduce students to the vocabulary, knowledge, and skills required for entry into health-related occupations. Students receive instruction in the vocabulary of human anatomy and physiology, basic health care skills, first aid, cardiopulmonary resuscitation (CPR), and healthcare practices. Students' medical, ethical, and legal responsibilities pertaining to future careers in the health field will be integrated into the course. Students will also be introduced to health-related occupational skills required in the world of work.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Nursing Assistant	NURSING ASST	1	L3C	51.3902
<p><i>Prerequisite: Health Science II or Medical Terminology</i></p> <p>This course is designed to provide students with the knowledge and skills required for entry into the healthcare field. Students completing this program, including the clinical practicum, are eligible to apply independently for the Nevada State Board of Nursing Certifying Exam for Nursing Assistants. Due to certification requirements, a student must complete the program in its entirety. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Nursing Assistant LAB	NURSING ASST L	1	L3L	51.3902
<p><i>Prerequisite: Concurrent enrollment in Nursing Assistant</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Pharmacy Technician	PHARMACY TECH	1	L3C	51.0805
<p><i>Prerequisite: Health Science II or Medical Terminology</i></p> <p>This course provides students with the introduction to the practices and fundamentals of pharmacology. Areas of study include pharmacy, calculations, routes, inventory management, and factors affecting drug activity. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Pharmacy Technician Advanced Studies	PHARMACY TECH AS	1	AS	51.0805
<p><i>Prerequisite: Pharmacy Technician</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
PLTW-Biomedical Innovation	PLTW BIOMED INNOV	1	L4C	26.0102
<p><i>Prerequisite: PLTW-Medical Interventions</i></p> <p>*Schools must be affiliated with the Project Lead The Way™ program to offer this course*</p> <p>This course serves as the capstone course for the Biomedical Sciences Project Lead the Way™ curriculum. Students design innovative solutions for the health challenges of the 21st century. They work through progressively challenging open-ended problems, addressing topics such as clinical medicine, physiology, biomedical engineering, and public health. They have the opportunity to work on an independent project with a mentor or advisor from a university, hospital, research institution, or the biomedical industry. Throughout the course, students are expected to present their work to an audience of STEM professionals.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
PLTW-Human Body Systems	PLTW HUM BODY SYS	1	L2	26.0102
<p><i>Prerequisite: PLTW-Principles of Biomedical Sciences</i></p> <p>*Schools must be affiliated with the Project Lead The Way™ program to offer this course*</p> <p>This course is a continuation of the Biomedical Sciences Project Lead the Way™ curriculum. Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis. Students design experiments, investigate the structures and functions of the human body, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration. Exploring science in action, students build organs and tissues on a skeletal manikin, work through interesting real world cases and often play the roles of biomedical professionals to solve medical mysteries.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
PLTW-Medical Interventions	PLTW MED INTERVENT	1	L3	26.0102
<p><i>Prerequisite: PLTW-Human Body Systems</i></p> <p>*Schools must be affiliated with the Project Lead The Way™ program to offer this course*</p> <p>This course is a continuation of the Biomedical Sciences Project Lead the Way™ curriculum. Students investigate a variety of interventions involved in the prevention, diagnosis and treatment of disease as they follow the life of a fictitious family. The course is a "How-To" manual for maintaining overall health and homeostasis in the body. Students explore how to prevent and fight infection; screen and evaluate the code in human DNA; prevent, diagnose and treat cancer; and prevail when the organs of the body begin to fail. Through these scenarios, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
PLTW-Principles of Biomedical Sciences	PLTW PRIN BIOMED	1	L1	26.0102
<p><i>Prerequisite: None</i></p> <p>*Schools must be affiliated with the Project Lead The Way™ program to offer this course*</p> <p>This course is the entry-level course of the Biomedical Sciences Project Lead the Way™ curriculum. Students investigate various health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. They determine the factors that led to the death of a fictional person, and investigate lifestyle choices and medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, medicine, and research processes. This course provides an overview of all the courses in the Biomedical Sciences program and lay the scientific foundation for subsequent courses.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Respiratory Therapy I	RESP THERAPY I	1	L3	51.0908
<p><i>Prerequisite: Health Science II or Medical Terminology</i></p> <p>This course provides students with the principles of respiratory therapy. Areas of emphasis include medical terminology, medical math, industry requirements, basic techniques, and procedures. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Respiratory Therapy I LAB	RESP THERAPY I L	1	L3L	51.0908
<p><i>Prerequisite: Concurrent enrollment in Respiratory Therapy I</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Respiratory Therapy II	RESP THERAPY II	1	L4C	51.0908
<p><i>Prerequisite: Respiratory Therapy I</i></p> <p>This course is a continuation of Respiratory Therapy I. This course provides advanced respiratory therapy students with instruction in intermediate techniques and processes. The students will continue to develop all skills learned in Respiratory Therapy I. The appropriate use of technology and industry-standard equipment is an integral part of this course. An internship may be incorporated into the course of study to assist students in making a transition from school to work. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Respiratory Therapy II LAB	RESP THERAPY II L	1	L4L	51.0908
<p><i>Prerequisite: Concurrent enrollment in Respiratory Therapy II</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Respiratory Therapy Practices	RESP THERAPY PRACT	1	L3	51.0908
<p><i>Prerequisite: Respiratory Therapy I</i></p> <p>This course provides students with practical applications of respiratory therapy. Areas of study include diagnostic procedures, patient assessment, equipment use, rehabilitation, and the principle of gas exchange. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Sports Medicine I	SPORT MEDICINE I	1	L2	51.0913
<p><i>Prerequisite: Health Science I</i></p> <p>This course is designed to introduce students to the field of sports medicine. It will provide students the opportunity to explore athletic training and sports medicine related fields. Students will receive instruction in sports medicine terminology, physical fitness, anatomy and physiology, kinesiology, injury evaluation and prevention procedures, and careers in sports medicine. Students will also demonstrate skills in cardiopulmonary resuscitation (CPR), first aid, and sports injury management and rehabilitation. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Sports Medicine II	SPORT MEDICINE II	1	L3C	51.0913
<p><i>Prerequisite: Sports Medicine I</i></p> <p>This course is a continuation of Sports Medicine I. This course provides advanced sports medicine students with instruction in advanced techniques and processes. This course will give students hands-on experience evaluating injuries commonly sustained by the competitive athlete. It includes all areas of sports medicine such as sports medicine terminology, musculoskeletal anatomy, evaluation, assessment, rehabilitation, and prevention of athletic injuries. Emphasis will be placed on evaluating and assessing athletic injuries. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Sports Medicine Advanced Studies	SPORT MEDICINE AS	1	AS	51.0913
<p><i>Prerequisite: Sports Medicine II</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				

WORK EXPERIENCE:

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Work Experience – Health Science	WORK EXPER HEALTH	1	WK	99.0008
<p><i>Prerequisite: None</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth work experience that applies the processes, concepts, and principles as described in the classroom instruction. This course will encourage students to explore and develop advanced skills through work-based learning directly related to the program of study. The course must follow NAC 389.562, 389.564, 389.566 regulations.</p>				

LAW, PUBLIC SAFETY, CORRECTIONS & SECURITY

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Criminal Justice I	CRIMINAL JUST I	1	L1	43.0104
<p><i>Prerequisite: None</i></p> <p>This course allows students to develop an understanding of the difference between the civil and criminal codes in the American legal system, with a particular emphasis on criminal and civil cases decided by Nevada courts by Nevada Revised Statutes. Students will explore themes in both civil and criminal law reflecting American social, moral, political and economic values. Students will focus on legal terminology and writing, and courtroom environment. Civil law will give an overview of tort, contract, bankruptcy, and administrative law. Students will focus on criminal law and the various aspects of behavior and actions of citizens, corporations and other associations deemed illegal by state and federal governments.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Criminal Justice II	CRIMINAL JUST II	1	L2	43.0104
<p><i>Prerequisite: Criminal Justice I or Foundations of Public Safety</i></p> <p>This course is a continuation of Criminal Justice I or Foundations of Public Safety. This course allows intermediate criminal justice students to develop their knowledge and skills. Areas of study will include civil law, criminal law, legal and ethical issues, forensics toxicology, laboratory technology, and research skills. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Criminal Justice III	CRIMINAL JUST III	1	L3C	43.0104
<p><i>Prerequisite: Criminal Justice II</i></p> <p>This course is a continuation of Criminal Justice II. This course allows intermediate criminal justice students to develop their knowledge and skills learned in Criminal Justice II. Areas of study will include physical and scientific evidence preservation, interrogations, federal rules, and legalities involving arrests and search and seizure. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Criminal Justice Advanced Studies	CRIMINAL JUST AS	1	AS	43.0104
<p><i>Prerequisite: Criminal Justice III</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Emergency Telecommunications I	EMER TELECOMM I	1	L1	43.0399
<p><i>Prerequisite: None</i></p> <p>This entry-level course is designed for the student interested in a career in the emergency communications field. Areas of study will include telecommunication centers, dispatching, use of 911 computer systems, participation in emergency scenarios, and call processing. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Emergency Telecommunications II	EMER TELECOMM II	1	L2C	43.0399
<p><i>Prerequisite: Emergency Telecommunications I</i></p> <p>This course is a continuation of Emergency Telecommunications I. This course allows advanced emergency telecommunications students to develop their knowledge and skills learned in Emergency Telecommunications I. Areas of study will include instruction using NAED, management of emergency and non-emergency situations, operations of two way radio, computer-aided telecommunication software during catastrophic events. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Emergency Telecommunications II LAB	EMER TELECOMM II L	1	L2L	43.0399
<p><i>Prerequisite: Concurrent enrollment in Emergency Telecommunications II</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Entry Level Firefighting	ENTRY LEVEL FIRE	1	L3C	43.0203
<p><i>Prerequisite: Fire Science II</i></p> <p>This course is a continuation of Fire Science II. This course allows advanced fire science students to develop their knowledge and skills of advanced principles and procedures employed in fire services. Students will develop response procedures in order to respond to small and catastrophic emergency incidents. Areas of study include incident command systems, fire suppression tactics, EMS training, wildland firefighter Type-2 training, hazardous materials, and technical rescue awareness. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Fire Science I	FIRE SCIENCE I	1	L1	43.0203
<p><i>Prerequisite: None</i></p> <p>This course introduces the principles and procedures employed in fire services. Students will practice response procedures in order to respond to small and catastrophic emergency incidents and will study laws, ordinances, regulations and organizational rules that define guidelines that govern emergency fire management. Students will compare career field and related careers to develop a personal perspective and an institutional professional growth plan to develop team building and leadership skills related to fire science.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Fire Science II	FIRE SCIENCE II	1	L2	43.0203
<p><i>Prerequisite: Fire Science I</i></p> <p>This course is a continuation of Fire Science I. This course provides fire science students with instruction in advanced techniques and critical thinking. This course provides instruction in the primary factors affecting wildland fire behavior and suppression, fire investigations, fire prevention, CPR/First Aid, engine companies, and potential hazards and human factors on the fire line. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Fire Science Advanced Studies	FIRE SCIENCE AS	1	AS	43.0203
<p><i>Prerequisite: Entry Level Firefighting</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Forensic Photography	FORENSIC PHOTO	1	L1	43.0106
<p><i>Prerequisite: None</i></p> <p>This course will introduce students to the basic skills related to forensic photography. Areas of study include legal aspects, methods, techniques, and skills associated with crime scene analysis. This course will focus on the techniques and methods that are used with photographic evidence that is a fair and accurate representation of what is depicted at the crime scene. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Forensic Science I	FORENSIC SCI I	1	L2	43.0106
<p><i>Prerequisite: Foundations of Public Safety</i></p> <p>This course introduces the principles and procedures employed in criminal and civil investigations. Areas of studies include scientific endeavors such as medicine, pathology, psychology, geology, entomology, fingerprint technology, chemistry, and biology. Emphasis will be put on gathering, analyzing, and interpreting physical evidence, using modern laboratory technologies and procedures. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Forensic Science II	FORENSIC SCI II	1	L3C	43.0106
<p><i>Prerequisite: Forensic Science I</i></p> <p>This course is a continuation of Forensic Science I. This course allows advanced forensic science students to develop their knowledge and skills of advanced principles and procedures employed in criminal and civil investigations. Areas of study include scientific endeavors such as medicine, pathology, psychology, geology, entomology, document analysis, chemistry, and biology. Emphasis will be placed on gathering, analyzing, and interpreting physical evidence, using modern laboratory technologies and procedures. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Forensic Science Advanced Studies	FORENSIC SCI AS	1	AS	43.0106
<p><i>Prerequisite: Forensic Science II</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Foundations of Public Safety	FOUN PUBLIC SAFETY	1	L1	43.9999
<p><i>Prerequisite: None</i></p> <p>This course is designed as the foundation for a career pathway in Law, Public Safety, Corrections and Security. Students are introduced to the elements and principles of emergency and fire management services, law enforcement services, legal services, and security and protective services.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Law Enforcement I	LAW ENFORCE I	1	L1	43.0107
<p><i>Prerequisite: None</i></p> <p>This course will provide the foundations for students interested in careers in law enforcement and security. Areas of study include ethics, historical development of law enforcement, legal processes, and healthy wellness. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Law Enforcement II	LAW ENFORCE II	1	L2	43.0107
<p><i>Prerequisite: Law Enforcement I or Foundations of Public Safety</i></p> <p>This course is a continuation of Law Enforcement I or Foundations of Public Safety. This course provides intermediate law enforcement students with instruction in advanced techniques and processes. Areas of study will include basic functions of a law enforcement officer such as patrol functions, ethics, investigations, victimization, and introduction to the criminal justice system. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Law Enforcement III	LAW ENFORCE III	1	L3C	43.0107
<p><i>Prerequisite: Law Enforcement II</i></p> <p>This course is a continuation of Law Enforcement II. This course provides advanced law enforcement students with instruction in advanced techniques and processes. Areas of study will include basic functions of a law enforcement officer such as written agency policies, quality control, procedural law, interrogations, use of force, and emergency management. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Law Enforcement Advanced Studies	LAW ENFORCE AS	1	AS	43.0107
<p><i>Prerequisite: Law Enforcement III</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				

WORK EXPERIENCE:

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Work Experience – Law Public Safety Corrections and Security	WORK EXPER LAW	1	WK	99.0012
<p><i>Prerequisite: None</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth work experience that applies the processes, concepts, and principles as described in the classroom instruction. This course will encourage students to explore and develop advanced skills through work-based learning directly related to the program of study. The course must follow NAC 389.562, 389.564, 389.566 regulations.</p>				

INFORMATION & MEDIA TECHNOLOGIES

CAREER CLUSTERS & PROGRAM ALIGNMENT



Arts, A/V Technology & Communications

- Animation
- Costume Design
- Digital Game Development
- Fashion, Textiles & Design
- Graphic Design
- Graphic Communications & Production
- Housing & Interior Design
- Photography
- Radio Production
- Video Production



Information Technology

- Computer Science
- Database Design
- Geographic Information Systems
- IT – Networking
- IT – Service and Support
- Microsoft IT Academy
- Web Design and Development

PROGRAM COURSE SEQUENCES

INFORMATION & MEDIA TECHNOLOGIES		
ARTS, A/V TECHNOLOGY & COMMUNICATION		
Program Name	Course Sequence	State Skill Standards*
Animation	<u>Core Course Sequence</u> Animation I Animation II Animation III <u>Complementary Course(s)</u> Animation II LAB ** Animation III LAB ** Animation Advanced Studies	Animation
Costume Design	<u>Core Course Sequence</u> Costume Design I Costume Design II Costume Design III <u>Complementary Course(s)</u> Costume Design Advanced Studies	Fashion, Textiles & Design
Digital Game Development	<u>Core Course Sequence</u> Digital Game Development I Digital Game Development II Digital Game Development III <u>Complementary Course(s)</u> Digital Game Development II LAB ** Digital Game Development III LAB ** Digital Game Development Advanced Studies	Digital Game Development
Fashion, Textiles and Design	<u>Core Course Sequence</u> Fashion Design and Construction I Fashion Design and Construction II Fashion Design and Construction III <u>Complementary Course(s)</u> Foundations of Design Pattern Drafting Fashion Design and Construction Advanced Studies	Fashion, Textiles and Design
Graphic Communications and Production	<u>Core Course Sequence</u> Graphic Communications and Production I Graphic Communications and Production II Graphic Communications and Production III <u>Complementary Course(s)</u> Graphic Communications and Production Advanced Studies	Graphic Communications and Production

* The Employability Skills for Career Readiness Standards must be an integrated component of all CTE course sequences.

** Lab courses are to be taught concurrently with the associated level course (i.e., level two course with the level two lab course) – see individual course descriptions for requirements and prerequisites.

ARTS, A/V TECHNOLOGY & COMMUNICATION (CONT.)		
Program Name	Course Sequence	State Skill Standards*
Graphic Design	<u>Core Course Sequence</u> Graphic Design I Graphic Design II Graphic Design III <u>Complementary Course(s)</u> Graphic Design II LAB ** Graphic Design III LAB ** Graphic Design Advanced Studies	Graphic Design
Housing and Interior Design	<u>Core Course Sequence</u> Housing and Interior Design I Housing and Interior Design II Housing and Interior Design III <u>Complementary Course(s)</u> Housing and Interior Design II LAB ** Housing and Interior Design III LAB ** Housing and Interior Design Advanced Studies	Housing and Interior Design
Photography	<u>Core Course Sequence</u> Photography I Photography II Photography III <u>Complementary Course(s)</u> Photography Advanced Studies	Photography
Radio Production	<u>Core Course Sequence</u> Radio Production I Radio Production II Radio Production III <u>Complementary Course(s)</u> Radio Production II LAB ** Radio Production III LAB ** Radio Production Advanced Studies	Radio Production
Video Production	<u>Core Course Sequence</u> Video Production I Video Production II Video Production III <u>Complementary Course(s)</u> Video Production II LAB ** Video Production III LAB ** Video Production Advanced Studies	Digital Video and Broadcast Production

* The Employability Skills for Career Readiness Standards must be an integrated component of all CTE course sequences.

** Lab courses are to be taught concurrently with the associated level course (i.e., level two course with the level two lab course) – see individual course descriptions for requirements and prerequisites.

INFORMATION TECHNOLOGY		
Program Name	Course Sequence	State Skill Standards*
Computer Science	<u>Core Course Sequence</u> Computer Science I Computer Science II Computer Science III <i>or</i> AP Computer Science A <u>Complementary Course(s)</u> Computer Science II LAB ** Computer Science III LAB ** Computer Science Advanced Studies	Computer Science
Database Design	<u>Core Course Sequence</u> Database Design I Database Design II Database Design III <u>Complementary Course(s)</u> Database Design II LAB ** Database Design III LAB ** Database Design Advanced Studies	Database Design
Geographic Information Systems	<u>Core Course Sequence</u> Geographic Information Systems I Geographic Information Systems II	Geographic Information Systems
Information Technology Networking	<u>Core Course Sequence</u> IT Networking I IT Networking II IT Networking III <u>Complementary Course(s)</u> IT Networking Advanced Studies	Information Technology Networking
Information Technology Service and Support	<u>Core Course Sequence</u> IT Essentials I IT Essentials II <u>Complementary Course(s)</u> IT Essentials Advanced Studies	Information Technology Service and Support

* The Employability Skills for Career Readiness Standards must be an integrated component of all CTE course sequences.

** Lab courses are to be taught concurrently with the associated level course (i.e., level two course with the level two lab course) – see individual course descriptions for requirements and prerequisites.

INFORMATION TECHNOLOGY (CONT.)		
Program Name	Course Sequence	State Skill Standards*
Microsoft IT Academy™	<u>Core Course Sequence</u> Microsoft Applications I Microsoft Applications II Microsoft Technologies I Microsoft Technologies II Microsoft Technologies III <u>Complementary Course(s)</u> Microsoft Technologies II LAB ** Microsoft Technologies III LAB ** Microsoft Technologies Advanced Studies	*TBD*
Web Design and Development	<u>Core Course Sequence</u> Web Design and Development I Web Design and Development II Web Design and Development III <u>Complementary Course(s)</u> Web Design and Development II LAB ** Web Design and Development III LAB ** Web Design and Development Advanced Studies	Web Design and Development

* The Employability Skills for Career Readiness Standards must be an integrated component of all CTE course sequences.

** Lab courses are to be taught concurrently with the associated level course (i.e., level two course with the level two lab course) – see individual course descriptions for requirements and prerequisites.

COURSE DESCRIPTIONS

ARTS, A/V TECHNOLOGY & COMMUNICATION

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Animation I	ANIMATION I	1	L1	10.0304
<p><i>Prerequisite: None</i></p> <p>This course introduces students to the basic principles of two and three-dimensional computer animation and graphics. Areas of study include storyboarding, character creation, background development, traditional animation techniques, and the use of industry-standard technology. Projects are provided to develop the student's career-based animation skills.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Animation II	ANIMATION II	1	L2	10.0304
<p><i>Prerequisite: Animation I</i></p> <p>This course is a continuation of Animation I. This course provides students further instruction in principles of two and three-dimensional computer animation and graphics. Areas of study include storyboarding, character creation, modeling, background development, and traditional animation techniques. Projects are provided to develop the student's career-based animation skills. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Animation II LAB	ANIMATION II L	1	L2L	10.0304
<p><i>Prerequisite: Concurrent enrollment in Animation II</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Animation III	ANIMATION III	1	L3C	10.0304
<p><i>Prerequisite: Animation II</i></p> <p>This course is a continuation of Animation II. This course provides students advanced instruction in principles of two and three-dimensional computer animation and graphics. Areas of study include storyboarding, character creation, modeling, background development, and traditional animation techniques. Projects are provided to develop the student's career-based animation skills. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Animation III LAB	ANIMATION III L	1	L3L	10.0304
<p><i>Prerequisite: Concurrent enrollment in Animation III</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Animation Advanced Studies	ANIMATION AS	1	AS	10.0304
<p><i>Prerequisite: Animation III</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Costume Design I	COSTUME DESG I	1	L1	50.0510
<p><i>Prerequisite: None</i></p> <p>This course is designed to provide students with fundamentals of costume design. Areas of study will familiarize students with many aspects of costume design history, drawing, and construction. Classwork focuses on costume design and costume construction.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Costume Design II	COSTUME DESG II	1	L2	50.0510
<p><i>Prerequisite: Costume Design I</i></p> <p>This course is a continuation of Costume Design I. This course allows intermediate costume design students to develop their knowledge and skills learned in Costume Design I. Areas of study will include costume design and rendering, advanced construction techniques including repair and recycling, needs for special roles, and hat making. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Costume Design III	COSTUME DESG III	1	L3C	50.0510
<p><i>Prerequisite: Costume Design II</i></p> <p>This course is a continuation of Costume Design II. This course provides advanced costume design students with instruction in advanced techniques and processes. They will continue to develop all skills learned in Costume Design I and II. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Costume Design Advanced Studies	COSTUME DESG AS	1	AS	50.0510
<p><i>Prerequisite: Costume Design III</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Digital Game Development I	DIG GAME DEV I	1	L1	50.0411
<p><i>Prerequisite: None</i></p> <p>This course is designed to introduce students to the elements and structure of game programming and design. The areas of major emphasis in the course are game methodology, programming, game genres, game theory, 2D and 3D interactive experiences, and immersive environments. Students will apply both creative and technical skills to design and refine in addition to implementing the adventure. The appropriate use of technology is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Digital Game Development II	DIG GAME DEV II	1	L2	50.0411
<p><i>Prerequisite: Digital Game Development I</i></p> <p>This course is a continuation of Digital Game Development I. This course provides intermediate digital game development students with instruction in advanced techniques and processes. The areas of major emphasis in the course will be implemented in immersive environments and will include development of the student's individual genre of choice and to explore the potential for multi-genre development. Students will apply both creative and technical skills to design and refine in addition to implementing the adventure. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Digital Game Development II LAB	DIG GAME DEV II L	1	L2L	50.0411
<p><i>Prerequisite: Concurrent enrollment in Digital Game Development II</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Digital Game Development III	DIG GAME DEV III	1	L3C	50.0411
<p><i>Prerequisite: Digital Game Development II</i></p> <p>This course is a continuation of Digital Game Development II. This course provides advanced digital game development students with instruction in advanced techniques and processes. Emphasis is placed on students developing sophisticated digital games that include intermediate and advanced concepts in design, programming, animation, and 3-D techniques. Project-based learning, collaboration, and portfolio development are essential elements of this course. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Digital Game Development III LAB	DIG GAME DEV III L	1	L3L	50.0411
<p><i>Prerequisite: Concurrent enrollment in Digital Game Development III</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Digital Game Development Advanced Studies	DIG GAME DEV AS	1	AS	50.0411
<p><i>Prerequisite: Digital Game Development III</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Fashion Design and Construction I	FASHION CONST I	1	L1	50.0407
<p><i>Prerequisite: None</i></p> <p>This course is designed to provide students with fundamentals of fashion concepts and construction. Areas of emphasis include individual image, consumer decision-making, fabric and pattern selection, construction techniques, the use and care of sewing equipment, clothing repair, and fashion-related occupations.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Fashion Design and Construction II	FASHION CONST II	1	L2	50.0407
<p><i>Prerequisite: Fashion Design and Construction I</i></p> <p>This course is a continuation of Fashion Design and Construction I. This course allows intermediate fashion and design students to build on fundamental skills developed in Fashion Design and Construction I. This course will provide more in-depth experiences with textiles, clothing, and fashion. Areas of study include wardrobe planning and purchasing, handling and care of textiles, and advanced construction techniques. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Fashion Design and Construction III	FASHION CONST III	1	L3C	50.0407
<p><i>Prerequisite: Fashion Design and Construction II</i></p> <p>This course is a continuation of Fashion Design and Construction II. This course allows advanced fashion and design students to develop their knowledge and skills attained in Fashion Design and Construction I and II. This course will cover psychological and social aspects of clothing, advanced construction techniques including tailoring, use of specialty fabrics, and creative applications. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Fashion Design and Construction Advanced Studies	FASHION CONST AS	1	AS	50.0407
<p><i>Prerequisite: Fashion Design and Construction III</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Foundations of Design	FOUN DESIGN	1	L1	50.0499
<p><i>Prerequisite: None</i></p> <p>This course is designed as the foundation for the Fashion, Textiles and Design and Housing and Interior Design programs. Students are introduced to the elements and principles of design as used in the fields of fashion and interior design.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Graphic Communications and Production I	GRPH COM PROD I	1	L1	10.0301
<p><i>Prerequisite: None</i></p> <p>This course is designed to introduce the student to fundamental processes involved in printing, binding and finishing of graphic design. Areas of study will include graphic communications history, design theory, pre-press, and imaging operations, production processes, printing processes, screen printing processes, and career exploration.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Graphic Communications and Production II	GRPH COM PROD II	1	L2	10.0301
<p><i>Prerequisite: Graphic Communications and Production I</i></p> <p>This course is a continuation of Graphic Communications and Production I. This course allows intermediate graphic communication students to develop their knowledge in processes involved in printing, binding and finishing of graphic design. Areas of study include graphic design theory, pre-press and imaging operations, production processes, printing processes, screen printing processes and career exploration. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Graphic Communications and Production III	GRPH COM PROD III	1	L3C	10.0301
<p><i>Prerequisite: Graphic Communications and Production II</i></p> <p>This course is a continuation of Graphic Communications and Production II. This course allows advanced graphic communication students instruction and practice in advanced techniques and processes. They will continue to develop all skills learned in Graphic Communications and Production I and II. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Graphic Communications and Production Advanced Studies	GRPH COM PROD AS	1	AS	10.0301
<p><i>Prerequisite: Graphic Communications and Production III</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Graphic Design I	GRAPHIC DESG I	1	L1	50.0409
<p><i>Prerequisite: None</i></p> <p>This course is designed to introduce students to the fundamental skills and knowledge needed to create graphic works using industry-standard hardware and software for a variety of purposes and outputs. Areas of study include the understanding of the industry history, terminology, color, design principles, typography and ethical and legal issues related to graphic designs. Emphasis is placed on layout design and the creation and manipulation of graphics.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Graphic Design II	GRAPHIC DESG II	1	L2	50.0409
<p><i>Prerequisite: Graphic Design I</i></p> <p>This course is a continuation of Graphic Design I. This course provides advanced graphic design students with instruction in advanced techniques and processes. Students will work on projects simulating challenges found in the design industry such as corporate identity, publishing, advertising, and web applications. Students will develop their skills utilizing industry-standard software and equipment. Portfolio development will be emphasized. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Graphic Design II LAB	GRAPHIC DESG II L	1	L2L	50.0409
<p><i>Prerequisite: Concurrent enrollment in Graphic Design II</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Graphic Design III	GRAPHIC DESG III	1	L3C	50.0409
<p><i>Prerequisite: Graphic Design II</i></p> <p>This course is a continuation of Graphic Design I. This course provides advanced graphic design students with instruction in advanced techniques and processes. Students will work on projects simulating challenges found in the design industry such as corporate identity, publishing, advertising, web applications, and package design. Portfolio development will be emphasized. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Graphic Design III LAB	GRAPHIC DESG III L	1	L3L	50.0409
<p><i>Prerequisite: Concurrent enrollment in Graphic Design III</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Graphic Design Advanced Studies	GRAPHIC DESG AS	1	AS	50.0409
<p><i>Prerequisite: Graphic Design III</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Housing and Interior Design I	INT DESIGN I	1	L1	50.0408
<p><i>Prerequisite: None</i></p> <p>This course provides students with an introduction to the principles of housing and interior design. Students examine housing and interior decisions made by individuals and families based on their needs, the environment, and technology. Emphasis is placed on selecting goods and services and creating functional and pleasing living environments based on sound financial decisions and design principles.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Housing and Interior Design II	INT DESIGN II	1	L2	50.0408
<p><i>Prerequisite: Housing and Interior Design I</i></p> <p>This course is a continuation of Housing and Interior Design I. This course prepares intermediate housing and interior design students for opportunities in the residential and non-residential interior design fields. Topics include application of design theory to interior plans and production, selection of materials, and examination of business procedures. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Housing and Interior Design II LAB	INT DESIGN II L	1	L2L	50.0408
<p><i>Prerequisite: Concurrent enrollment in Housing and Interior Design II</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in this program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Housing and Interior Design III	INT DESIGN III	1	L3C	50.0408
<p><i>Prerequisite: Housing and Interior Design II</i></p> <p>This course is a continuation of Housing and Interior Design II. This course provides advanced housing and interior design students with instruction in advanced techniques and processes. They will continue to develop all skills learned in Housing and Interior Design I and II. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Housing and Interior Design III LAB	INT DESIGN III L	1	L3L	50.0408
<p><i>Prerequisite: Concurrent enrollment in Housing and Interior Design III</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in this program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Housing and Interior Design Advanced Studies	INT DESIGN AS	1	AS	50.0408
<p><i>Prerequisite: Housing and Interior Design III</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Pattern Drafting	PATTERN DRAFTING	1	L3	50.0407
<p><i>Prerequisite: Fashion Design and Construction II</i></p> <p>This course is designed to provide students with the theory and application of flat pattern drafting and design. Students apply the principles and elements of design to draft patterns and construct garments. Areas of emphasis include sketching, measurements, and pattern alterations. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Photography I	PHOTOGRAPHY I	1	L1	50.0406
<p><i>Prerequisite: None</i></p> <p>This course is designed to introduce students to the fundamentals of commercial photography in relation to seeing photographically, operating cameras, use of light, image capture, and processing digital images. Students will also learn the history of photography, legal and ethical issues related to the industry. Career exploration is also a part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Photography II	PHOTOGRAPHY II	1	L2	50.0406
<p><i>Prerequisite: Photography I</i></p> <p>This course is a continuation of Photography I. This course provides intermediate photography students with instruction in advanced digital techniques and processes. Areas of study include operating cameras, use of light, image capture, and processing digital images. Students will also learn the history of photography, legal and ethical issues related to the industry. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Photography III	PHOTOGRAPHY III	1	L3C	50.0406
<p><i>Prerequisite: Photography II</i></p> <p>This course is a continuation of Photography II. This course provides advanced photography students with instruction in advanced digital techniques and processes in commercial photography. Manipulation of images using industry-standard software is also included. Students will be required to exhibit their projects. Students will be prepared for industry certifications. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Photography Advanced Studies	PHOTOGRAPHY AS	1	AS	50.0406
<p><i>Prerequisite: Photography III</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Radio Production I	RADIO PROD I	1	L1	10.0202
<p><i>Prerequisite: None</i></p> <p>This course is designed to introduce students to the basic elements and skills needed for radio broadcast production. Operating radio amplifiers, mixers, audio boards, microphones, music CDs, MP3s, and Internet production and the process of On-Air program production are emphasized. Students will become familiar with radio production techniques used within the broadcast industry.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Radio Production II	RADIO PROD II	1	L2	10.0202
<p><i>Prerequisite: Radio Production I</i></p> <p>This course is a continuation of Radio Production I. This course provides intermediate radio production students with instruction in advanced techniques and processes. Emphasis is placed on the advanced principles to produce a daily broadcast, pre/post-production, editing techniques, studio, and engineering procedures, and production skills. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Radio Production II LAB	RADIO PROD II L	1	L2L	10.0202
<p><i>Prerequisite: Concurrent enrollment in Radio Production II</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Radio Production III	RADIO PROD III	1	L3C	10.0202
<p><i>Prerequisite: Radio Production II</i></p> <p>This course is a continuation of Radio Production II. This course provides advanced radio production students with instruction in advanced techniques and processes in radio broadcast and production. Emphasis is placed on the advanced principles to produce a daily broadcast, pre/post-production, editing techniques, studio and engineering procedures, and production skills. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Radio Production III LAB	RADIO PROD III L	1	L3L	10.0202
<p><i>Prerequisite: Concurrent enrollment in Radio Production III</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Radio Production Advanced Studies	RADIO PROD AS	1	AS	10.0202
<p><i>Prerequisite: Radio Production III</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Video Production I	VIDEO PROD I	1	L1	50.0602
<p><i>Prerequisite: None</i></p> <p>This course is designed to introduce students to the basic elements and skills needed to produce a video. Operating video cameras, script writing, editing equipment, microphones, and the process of On-Air program production are emphasized. Students will become familiar with video production techniques for a variety of purposes, including broadcast journalism.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Video Production II	VIDEO PROD II	1	L2	50.0602
<p><i>Prerequisite: Video Production I</i></p> <p>This course is a continuation of Video Production I. This course provides intermediate video production students with instruction in advanced techniques and processes. Emphasis is placed on the advanced principles in pre/post-production, editing techniques, studio and engineering procedures, and live broadcast skills. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Video Production II LAB	VIDEO PROD II L	1	L2L	50.0602
<p><i>Prerequisite: Concurrent enrollment in Video Production II</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Video Production III	VIDEO PROD III	1	L3C	50.0602
<p><i>Prerequisite: Video Production II</i></p> <p>This course is a continuation of Video Production II. This course provides advanced video production students with instruction in advanced techniques and processes. Emphasis is placed on the advanced principles in pre/post-production, editing techniques, studio and engineering procedures, and live broadcast skills. Students will become familiar with video production techniques for a variety of purposes, including broadcast journalism. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Video Production III LAB	VIDEO PROD III L	1	L3L	50.0602
<p><i>Prerequisite: Concurrent enrollment in Video Production III</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Video Production Advanced Studies	VIDEO PROD AS	1	AS	50.0602
<p><i>Prerequisite: Video Production III</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				

WORK EXPERIENCE:

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Work Experience – Arts A/V Technology and Communication	WORK EXPER TECH	1	WK	99.0003
<p><i>Prerequisite: None</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth work experience that applies the processes, concepts, and principles as described in the classroom instruction. This course will encourage students to explore and develop advanced skills through work-based learning directly related to the program of study. The course must follow NAC 389.562, 389.564, 389.566 regulations.</p>				

INFORMATION TECHNOLOGY

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
AP Computer Science A	AP COMPUTER SCI A	1	L3C	11.0701
<p><i>Prerequisite: Computer Science II</i></p> <p>This course is a continuation of Computer Science II. This course follows The College Board Advanced Placement curriculum and prepares students for the AP Computer Science exam. The course provides advanced computer science students with instruction in advanced programming, techniques and processes. The students will continue to develop all skills learned in Computer Science I and II. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Computer Science I	COMPUTER SCI I	1	L1	11.0701
<p><i>Prerequisite: None</i></p> <p>This course is designed to introduce students to programming and the role of the computer in society. The areas of major emphasis in the course will be on object-oriented programming methodology, algorithms, data structures and ethics. Topics will include program design, program implementation, standard data structures, and standard algorithms.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Computer Science II	COMPUTER SCI II	1	L2	11.0701
<p><i>Prerequisite: Computer Science I</i></p> <p>This course is a continuation of Computer Science I. This course provides intermediate computer science students with instruction in advanced techniques and processes. The areas of major emphasis in the course will be on object-oriented programming methodology, algorithms, data structures and ethics. Topics will include program design, program implementation, standard data structures, and standard algorithms. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Computer Science II LAB	COMPUTER SCI II L	1	L2L	11.0701
<p><i>Prerequisite: Concurrent enrollment in Computer Science II</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Computer Science III	COMPUTER SCI III	1	L3C	11.0701
<p><i>Prerequisite: Computer Science II</i></p> <p>This course is a continuation of Computer Science II. This course provides advanced computer science students with instruction in advanced programming, techniques and processes. The students will continue to develop all skills learned in Computer Science I and II. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Computer Science III LAB	COMPUTER SCI III L	1	L3L	11.0701
<p><i>Prerequisite: Concurrent enrollment in Computer Science III</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Computer Science Advanced Studies	COMPUTER SCI AS	1	AS	11.0701
<p><i>Prerequisite: Computer Science III</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Database Design I	DBASE DESG I	1	L1	11.0802
<p><i>Prerequisite: None</i></p> <p>This course is designed to introduce students to the fundamentals of database design and development. Areas of study include database design, a structured approach to system development, creation and manipulation of data, and retrieval of information from databases. As students learn data modeling, they will also begin to query the databases.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Database Design II	DBASE DESG II	1	L2	11.0802
<p><i>Prerequisite: Database Design I</i></p> <p>This course is a continuation of Database Design I. This course provides advanced database design students with instruction in advanced techniques and processes. Students will learn to declare variables, develop stored procedures and use functions. Students will extend their knowledge by learning more advanced features such as creating database triggers, manipulating large objects, and managing dependencies. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Database Design II LAB	DBASE DESG II L	1	L2L	11.0802
<p><i>Prerequisite: Concurrent enrollment in Database Design II</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Database Design III	DBASE DESG III	1	L3C	11.0802
<p><i>Prerequisite: Database Design II</i></p> <p>This course is a continuation of Database Design II. This course provides advanced database design students with instruction in advanced techniques and processes. Students will learn to declare variables, develop stored procedures and use functions. Students will extend their knowledge by learning more advanced features such as creating database triggers, manipulating large objects, and managing dependencies. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Database Design III LAB	DBASE DESG III L	1	L3L	11.0802
<p><i>Prerequisite: Concurrent enrollment in Database Design III</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Database Design Advanced Studies	DBASE DESG AS	1	AS	11.0802
<p><i>Prerequisite: Database Design III</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Geographic Information Systems I	GIS I	1	L1	45.0702
<p><i>Prerequisite: None</i></p> <p>This course will introduce the student to the basic concepts and structures of Geographic Information Systems. Students will learn the basic functions of Geographic Information System softwares, processes, and procedures. Students will also become familiar with the environment, applications, and power of a Geographic Information System and be exposed to the unlimited applications and opportunities that Geographic Information Systems have to offer.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Geographic Information Systems II	GIS II	1	L2C	45.0702
<p><i>Prerequisite: Geographic Information System I</i></p> <p>This course is a continuation of Geographic Information System I. This course provides advanced GIS students with instruction in advanced techniques and processes of the GIS industry. Areas of study include basic components of map making, map projections and distortions, GIS software used in mapmaking, and concepts of spatial association. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
IT Essentials I	IT ESSENTIALS I	1	L1	15.1202
<p><i>Prerequisite: None</i></p> <p>This course covers the fundamentals of computer hardware and software, as well as topics in design, maintenance, and repair. Students who complete this course will be able to describe the internal components of a computer, assemble a computer system, install an operating system, and troubleshoot using system tools and diagnostic software.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
IT Essentials II	IT ESSENTIALS II	1	L2C	15.1202
<p><i>Prerequisite: IT Essentials I</i></p> <p>This course covers the fundamentals of computer hardware and software, as well as topics in design, maintenance, and repair. Students who complete this course will be able to describe the internal components of a computer, assemble a computer system, install an operating system, and troubleshoot using system tools and diagnostic software. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
IT Essentials Advanced Studies	IT ESSENTIALS AS	1	AS	15.1202
<p><i>Prerequisite: IT Essentials II</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
IT Networking I	IT NETWORKING I	1	L1	11.1002
<p><i>Prerequisite: None</i></p> <p>This course will introduce students to the general theories needed to design, build, and maintain home and small business networks. Concepts learned will provide the students with the opportunity to further their education in Information Technology (IT) and prepare for entry-level IT careers.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
IT Networking II	IT NETWORKING II	1	L2	11.1002
<p><i>Prerequisite: IT Networking I</i></p> <p>This course is a continuation of IT Networking I. This course provides intermediate students with the general theory of distance vector routing protocols and skills required for advanced router configuration, including interfaces, Routing Information Protocol (RIP) and Enhanced Interior Gateway Routing Protocol (EIGRP). Concepts learned will provide the students with the opportunity to further their education in Information Technology (IT) and prepare for entry-level IT careers. Upon completion of this sequence of courses, students may qualify to sit for a national industry-standard certification exam.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
IT Networking III	IT NETWORKING III	1	L3C	11.1002
<p><i>Prerequisite: IT Networking II</i></p> <p>This course is a continuation of IT Networking II. This course provides intermediate students with the general theory of switching and intermediate routing, including virtual local-area networks (VLAN), interVLAN routing, wireless local area networks (LAN), and network troubleshooting. Concepts learned will provide the students with the opportunity to further their education in Information Technology (IT) and prepare for entry-level IT careers. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
IT Networking Advanced Studies	IT NETWORKING AS	1	AS	11.1002
<p><i>Prerequisite: IT Networking III</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
MSFT Applications I	MSFT APPS I	1	L1	15.1299
<p><i>Prerequisite: None</i></p> <p>*Schools must be affiliated with the Microsoft IT Academy™ program to offer this course*</p> <p>This course prepares students to earn their Microsoft Digital Literacy certification and the Microsoft Office Specialist (MOS) certifications in one or more of the following: Word, Excel, Outlook, PowerPoint and OneNote. Students will apply real-world problem solving strategies while creating documents, developing multimedia presentations, and exploring advanced communication methods. Students will be trained on the latest software using official curriculum from Microsoft. Students of the Microsoft IT Academy receive hands-on experience with the latest Microsoft software and industry approved curriculum. Upon completion of this sequence of courses, students will qualify to sit for a national industry-standard certification exam.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
MSFT Applications II	MSFT APPS II	1	L2	15.1299
<p><i>Prerequisite: MSFT Applications I</i></p> <p>*Schools must be affiliated with the Microsoft IT Academy™ program to offer this course*</p> <p>This course prepares students to earn the Microsoft Office Specialist (MOS) certifications in one or more of the following: Word, Excel, Outlook, PowerPoint and OneNote, as well as, Access, Word Expert and Excel Expert. Students will apply real-world problem solving strategies while creating documents, developing multimedia presentations, and exploring advanced communication methods. Students will be trained on the latest software using official curriculum from Microsoft. Students of the Microsoft IT Academy receive hands-on experience with the latest Microsoft software and industry approved curriculum. Upon completion of this sequence of courses, students will qualify to sit for a national industry-standard certification exam.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
MSFT Technologies I	MSFT TECH I	1	L1	15.1204
<p><i>Prerequisite: None</i></p> <p>*Schools must be affiliated with the Microsoft IT Academy™ program to offer this course*</p> <p>This course introduces students to pre-programming and the beginning level Microsoft Technology Associate (MTA) certifications in software development and networking fundamentals. Using Microsoft and industry approved curriculum, students will apply real-world problem solving strategies while working with the latest Microsoft software.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
MSFT Technologies II	MSFT TECH II	1	L2	15.1204
<p><i>Prerequisite: MSFT Technologies I</i></p> <p>*Schools must be affiliated with the Microsoft IT Academy™ program to offer this course*</p> <p>This course is a continuation of the Microsoft IT academy. Students will prepare for Microsoft Technology Associate (MTA) certifications include Security Fundamentals, Net fundamentals, Gaming and Mobile Application Fundamentals, Software Development Fundamentals. Using Microsoft and industry approved curriculum, students will apply real-world problem solving strategies while working with the latest Microsoft software.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
MSFT Technologies II LAB	MSFT TECH II L	1	L2L	15.1204
<p><i>Prerequisite: Concurrent enrollment in MSFT Technologies II</i></p> <p>*Schools must be affiliated with the Microsoft IT Academy™ program to offer this course*</p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
MSFT Technologies III	MSFT TECH III	1	L3C	15.1204
<p><i>Prerequisite: MSFT Technologies II</i></p> <p>*Schools must be affiliated with the Microsoft IT Academy™ program to offer this course*</p> <p>The third course will prepare students to earn the remaining certifications for Microsoft Technology Associate (MTA). Students will prepare for certifications in one or more of the following: Windows Server Admin Fundamentals, Windows OS Fundamentals, Database Admin Fundamentals, and Windows Developer Fundamentals. Students will begin to focus on one of the three MTA career path options of IT Pro, Windows Developer, and Database Administrator. They will use the latest Microsoft technology and approved curriculum both online, in-class as well as practicing real-world problem solving through job shadowing and field experience. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
MSFT Technologies III LAB	MSFT TECH III L	1	L3L	15.1204
<p><i>Prerequisite: Concurrent enrollment in MSFT Technologies III</i></p> <p>*Schools must be affiliated with the Microsoft IT Academy™ program to offer this course*</p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
MSFT Technologies Advanced Studies	MSFT TECH AS	1	AS	15.1204
<p><i>Prerequisite: MSFT Technologies III</i></p> <p>*Schools must be affiliated with the Microsoft IT Academy™ program to offer this course*</p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
NAF-Computer Networking	NAF COMP NETWORK	.5	L2	11.1002
<p><i>Prerequisite: Must complete 1 or more Level 1 (L1) NAF courses</i></p> <p>*Schools must be affiliated with the National Academy Foundation™ program to offer this course*</p> <p>Computer Networking is a hands-on introduction to peer-to-peer and client/server networks. The course guides students through all phases of implementing and troubleshooting common TCP/IP Ethernet networks. It covers network components, cables, and connectors, as well as the OSI model, protocols, and topologies. Students implement and troubleshoot a LAN and learn about access issues for WANs. Finally, students explore opportunities for network-related careers.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
NAF-Computer Systems	NAF COMP SYSTEMS	.5	L3	11.0701
<p><i>Prerequisite: Must complete 2 or more Level 2 (L2) NAF courses</i></p> <p>*Schools must be affiliated with the National Academy Foundation™ program to offer this course*</p> <p>Computer Systems walks students through the intricacies of setting up hardware, installing software, connecting to a network, and connecting to the Internet. Students get hands-on practice upgrading operating systems. They get practice assembling and disassembling computer hardware including peripherals, motherboards, FRUs, and connectors. Students also learn troubleshooting techniques. Finally, students get a chance to explore careers for computer systems professionals.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
NAF-Database Design	NAF DBASE DESG	.5	L2	11.0802
<p><i>Prerequisite: Must complete 1 or more Level 1 (L1) NAF courses</i></p> <p>*Schools must be affiliated with the National Academy Foundation™ program to offer this course*</p> <p>Database Design covers all aspects of the database life cycle, from collecting user requirements to delivering a database application. Students get hands-on practice in a true-to-life database project as they move from a statement of requirements to a conceptual model, then to an entity-relationship model. They translate this into a relational database. Finally, they create, test, and document the associated database application. Students also examine career opportunities as database professionals.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
NAF-Digital Video Production	NAF DIG VIDEO PROD	.5	L2	50.0602
<p><i>Prerequisite: Must complete 1 or more Level 1 (L1) NAF courses</i></p> <p>*Schools must be affiliated with the National Academy Foundation™ program to offer this course*</p> <p>Digital Video Production provides a hands-on introduction to digital video production. It guides students through all phases of digital video production, from planning, executing, and managing a video shoot to editing footage. Students explore methods of sharing and broadcasting digital videos, including platform versions, CDs/DVDs, and web delivery. They also learn about publicizing a digital video, using techniques such as search engines to direct viewers to the production.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
NAF-Introduction to Programming	NAF INTRO PROG	.5	L1	11.0201
<p><i>Prerequisite: None</i></p> <p>*Schools must be affiliated with the National Academy Foundation™ program to offer this course*</p> <p>Introduction to Programming uses Python as a basis for learning general programming skills. Students learn programming principles by comparing Python to other programming languages. They use models as a way to quickly solve new problems using knowledge and techniques already learned. Students complete over 60 programs in the course, including both text and graphics/animation programs. In addition to programming, students learn program design, documentation, formal debugging, and testing. Finally, students examine career opportunities in programming.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
NAF-Principles of Information Technology	NAF PRIN IT	.5	L1	15.1201
<p><i>Prerequisite: None</i></p> <p>*Schools must be affiliated with the National Academy Foundation™ program to offer this course*</p> <p>This is the first course students take in the Academy of Information Technology. It provides an overview of information technology and introduces students to the basics of hardware and software. Students examine hardware components including peripherals, connectors, and memory. Students explore common operating systems, software applications, and programming languages. Students learn about types of networks and network topology, and they set up an email client/server connection.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
NAF-Web Design	NAF WEB DESG	.5	L2	11.0801
<p><i>Prerequisite: Must complete 1 or more Level 1 (L1) NAF courses</i></p> <p>*Schools must be affiliated with the National Academy Foundation™ program to offer this course*</p> <p>Web Design is a hands-on introduction to designing, building, and launching Web sites. Students learn about Web development including HTML coding, usability, design, and Web-based publishing tools. Students determine business requirements, gather Web content, create Web pages, conduct usability testing, launch their Web sites, and plan how to attract traffic. Finally, students take a look at various career opportunities in Web design.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Web Design and Development I	WEB DESG DEV I	1	L1	11.0801
<p><i>Prerequisite: None</i></p> <p>This course is designed to introduce students to the basic elements of web design and development. Students will learn about content placement, use of color and graphics, typography and message using industry-standard software. Students are introduced to various web design languages, design concepts, and layout theory. Students will become familiar with marketing and other uses of websites; as well as ethical and legal issues related to websites.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Web Design and Development II	WEB DESG DEV II	1	L2	11.0801
<p><i>Prerequisite: Web Design and Development I</i></p> <p>This course is a continuation of Web Design and Development I. This course is designed for intermediate students to create websites for a variety of purposes. Students will develop their knowledge of content, placement, use of color and graphics, typography and message. Students will use various web design languages, design concepts, and layout theories to create their websites. Students will examine the role of marketing, market research, ethics and legal issues as it relates to websites. Project-based learning, collaboration, and portfolio development are essential elements of this class. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Web Design and Development II LAB	WEB DESG DEV II L	1	L2L	11.0801
<p><i>Prerequisite: Concurrent enrollment in Web Design and Development II</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Web Design and Development III	WEB DESG DEV III	1	L3C	11.0801
<p><i>Prerequisite: Web Design and Development II</i></p> <p>This course is a continuation of Web Design and Development II. This course is designed for advanced students to create websites for a variety of purposes using advanced techniques and processes. Areas of study include automation, animation and interactivity in websites, as well as, web servers and a more extensive knowledge of website construction. Project-based learning, collaboration, and portfolio development are essential elements of this class. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Web Design and Development III LAB	WEB DESG DEV III L	1	L3L	11.0801
<p><i>Prerequisite: Concurrent enrollment in Web Design and Development III</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Web Design and Development Advanced Studies	WEB DESG DEV AS	1	AS	11.0801
<p><i>Prerequisite: Web Design and Development III</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				

WORK EXPERIENCE:

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Work Experience – Information Technology	WORK EXPER IT	1	WK	99.0011
<p><i>Prerequisite: None</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth work experience that applies the processes, concepts, and principles as described in the classroom instruction. This course will encourage students to explore and develop advanced skills through work-based learning directly related to the program of study. The course must follow NAC 389.562, 389.564, 389.566 regulations.</p>				

SKILLED & TECHNICAL SCIENCES

CAREER CLUSTERS & PROGRAM ALIGNMENT



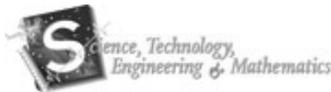
Architecture & Construction

- Architectural Drafting & Design
- Building Maintenance
- Construction Technology
- Drafting & Design
- Furniture & Cabinetmaking
- Heating, Ventilation, Air Conditioning & Refrigeration



Manufacturing

- Electronic Technology
- Machine Tool Technology
- Mechanical Drafting & Design
- Mechanical Technology
- Metalworking
- Renewable Energy Technology
- Welding Technology



Science, Technology, Engineering, & Mathematics

- Aerospace Engineering
- Architectural & Civil Engineering
- Biotechnical Engineering
- Electronic Engineering
- Mechanical Engineering



Transportation, Distribution & Logistics

- Aircraft Equipment Technology
- Automotive Technology
- Aviation Technology
- Collision Repair Technology
- Diesel Equipment Technology
- Power Equipment Technology

PROGRAM COURSE SEQUENCES

SKILLED & TECHNICAL SCIENCES		
ARCHITECTURE & CONSTRUCTION		
Program Name	Course Sequence	State Skill Standards*
Architectural Drafting and Design	<u>Core Course Sequence</u> Architectural Drafting and Design I Architectural Drafting and Design II Architectural Drafting and Design III <u>Complementary Course(s)</u> Architectural Drafting and Design II LAB Architectural Drafting and Design III LAB Architectural Drafting and Design Advanced Studies	Architectural Drafting and Design
Building Maintenance	<u>Core Course Sequence</u> Building Maintenance Services I Building Maintenance Services II	Building Maintenance *TBD*
Construction Technology	<u>Core Course Sequence</u> Construction Technology I Construction Technology II Construction Technology III <u>Complementary Course(s)</u> Construction Technology II LAB ** Construction Technology III LAB ** Construction Technology Advanced Studies	Construction Technology
Drafting and Design	<u>Core Course Sequence</u> Drafting and Design I Drafting and Design II Drafting and Design III <u>Complementary Course(s)</u> Drafting and Design II LAB ** Drafting and Design III LAB ** Drafting and Design Advanced Studies	Drafting and Design *TBD*
Furniture and Cabinetmaking	<u>Core Course Sequence</u> Furniture and Cabinetmaking I Furniture and Cabinetmaking II Furniture and Cabinetmaking III <u>Complementary Course(s)</u> Furniture and Cabinetmaking Advanced Studies	Furniture and Cabinetmaking
Heating, Ventilation, Air Conditioning & Refrigeration	<u>Core Course Sequence</u> Air Conditioning and Refrigeration I Air Conditioning and Refrigeration II Air Conditioning and Refrigeration III <u>Complementary Course(s)</u> Air Conditioning and Refrigeration II LAB ** Air Conditioning and Refrigeration III LAB ** Air Conditioning and Refrigeration Advanced Studies	Heating, Ventilation, Air Conditioning & Refrigeration

* The Employability Skills for Career Readiness Standards must be an integrated component of all CTE course sequences.

** Lab courses are to be taught concurrently with the associated level course (i.e., level two course with the level two lab course) – see individual course descriptions for requirements and prerequisites.

MANUFACTURING		
Program Name	Course Sequence	State Skill Standards*
Electronic Technology	<u>Core Course Sequence</u> Electronic Technology I Electronic Technology II Electronic Technology III <u>Complementary Course(s)</u> Electronic Technology II LAB ** Electronic Technology III LAB ** Electronic Technology Advanced Studies	Electronic Technology
Machine Tool Technology	<u>Core Course Sequence</u> Machine Tool Technology I Machine Tool Technology II <u>Complementary Course(s)</u> Machine Tool Technology I LAB ** Machine Tool Technology II LAB **	Machine Tool Technology *TBD*
Mechanical Drafting and Design	<u>Core Course Sequence</u> Mechanical Drafting and Design I Mechanical Drafting and Design II Mechanical Drafting and Design III <u>Complementary Course(s)</u> Mechanical Drafting and Design II LAB ** Mechanical Drafting and Design III LAB ** Mechanical Design Advanced Studies	Mechanical Drafting and Design
Mechanical Technology	<u>Core Course Sequence</u> Mechanical Technology I Mechanical Technology II Mechanical Technology III <u>Complementary Course(s)</u> Mechanical Technology II LAB ** Mechanical Technology III LAB ** Mechanical Technology Advanced Studies	Mechanical Technology *TBD*
Metalworking	<u>Core Course Sequence</u> Metalworking I Metalworking II Metalworking III <u>Complementary Course(s)</u> Metalworking Advanced Studies	Metalworking
Renewable Energy Technology	<u>Core Course Sequence</u> Renewable Energy Technology I Renewable Energy Technology II Renewable Energy Technology III <u>Complementary Course(s)</u> Renewable Energy Technology Advanced Studies	Renewable Energy Technology *TBD*

* The Employability Skills for Career Readiness Standards must be an integrated component of all CTE course sequences.

** Lab courses are to be taught concurrently with the associated level course (i.e., level two course with the level two lab course) – see individual course descriptions for requirements and prerequisites.

MANUFACTURING (CONT.)		
Program Name	Course Sequence	State Skill Standards*
Welding Technology	<u>Core Course Sequence</u> Welding Technology I Welding Technology II Welding Technology III <u>Complementary Course(s)</u> Welding Technology II LAB ** Welding Technology III LAB ** Welding Technology Advanced Studies	Welding Technology
SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS		
Program Name	Course Sequence	State Skill Standards*
Aerospace Engineering	<u>Project Lead The Way™ (PLTW):Pathway to Engineering</u> PLTW-Introduction to Engineering PLTW-Principles of Engineering PLTW-Aerospace Engineering <u>Complementary Course(s)</u> PLTW-Engineering Design and Development	Aerospace Engineering *TBD*
Architectural & Civil Engineering	<u>Project Lead The Way™ (PLTW):Pathway to Engineering</u> PLTW-Introduction to Engineering PLTW-Principles of Engineering PLTW-Civil Engineering and Architecture <u>Complementary Course(s)</u> PLTW-Engineering Design and Development	Architectural & Civil Engineering *TBD*
Biotechnical Engineering	<u>Project Lead The Way™ (PLTW):Pathway to Engineering</u> PLTW-Introduction to Engineering PLTW-Principles of Engineering PLTW-Biotechnical Engineering <u>Complementary Course(s)</u> PLTW-Engineering Design and Development	Biotechnical Engineering *TBD*
Electronic Engineering	<u>Project Lead The Way™ (PLTW):Pathway to Engineering</u> PLTW-Introduction to Engineering PLTW-Principles of Engineering PLTW-Digital Electronics <u>Complementary Course(s)</u> PLTW-Engineering Design and Development	Electronic Engineering *TBD*
Mechanical Engineering	<u>Project Lead The Way™ (PLTW):Pathway to Engineering</u> PLTW-Introduction to Engineering PLTW-Principles of Engineering PLTW-Computer Integrated Manufacturing <u>Complementary Course(s)</u> PLTW-Engineering Design and Development	Mechanical Engineering *TBD*

* The Employability Skills for Career Readiness Standards must be an integrated component of all CTE course sequences.

** Lab courses are to be taught concurrently with the associated level course (i.e., level two course with the level two lab course) – see individual course descriptions for requirements and prerequisites.

TRANSPORTATION, DISTRIBUTION & LOGISTICS		
Program Name	Course Sequence	State Skill Standards*
Aircraft Equipment Technology	<u>Core Course Sequence</u> Fundamentals of Aerospace and Aviation Aircraft Systems and Structures Aviation Maintenance Technician I Aviation Maintenance Technician II	Aircraft Equipment Technology *TBD*
Automotive Technology	<u>Core Course Sequence</u> Automotive Technology I Automotive Technology II Automotive Technology III <u>Complementary Course(s)</u> Automotive Technology II LAB Automotive Technology III LAB Automotive Technology Advanced Studies	Automotive Technology
Automotive Technology AYES	<u>Core Course Sequence</u> Automotive Technology I AYES Automotive Technology II AYES Automotive Technology III AYES Automotive Technology IV AYES <u>Complementary Course(s)</u> Automotive Technology II AYES LAB ** Automotive Technology III AYES LAB ** Automotive Technology IV AYES LAB **	Automotive Technology AYES *TBD*
Aviation Technology	<u>Core Course Sequence</u> Fundamentals of Aerospace and Aviation Aircraft Systems and Structures Pilot I <u>Complementary Course(s)</u> Pilot II Pilot II LAB **	Aviation Technology *TBD
Collision Repair Technology	<u>Core Course Sequence</u> Collision Repair Technology I Collision Repair Technology II Collision Repair Technology III <u>Complementary Course(s)</u> Collision Repair Technology II LAB ** Collision Repair Technology III LAB ** Collision Repair Technology Advanced Studies	Collision Repair Technology

* The Employability Skills for Career Readiness Standards must be an integrated component of all CTE course sequences.

** Lab courses are to be taught concurrently with the associated level course (i.e., level two course with the level two lab course) – see individual course descriptions for requirements and prerequisites.

TRANSPORTATION, DISTRIBUTION & LOGISTICS (CONT.)		
Program Name	Course Sequence	State Skill Standards*
Diesel Equipment Technology	<u>Core Course Sequence</u> Diesel Technology I Diesel Technology II Diesel Technology III <u>Complementary Course(s)</u> Diesel Technology II LAB ** Diesel Technology III LAB ** Diesel Technology Advanced Studies	Diesel Equipment Technology *TBD*
Power Equipment Technology	<u>Core Course Sequence</u> Power Equipment Technology I Power Equipment Technology II Power Equipment Technology III <u>Complementary Course(s)</u> Power Equipment Technology II LAB ** Power Equipment Technology III LAB ** Power Equipment Technology Advanced Studies	Power Equipment Technology *TBD*

* The Employability Skills for Career Readiness Standards must be an integrated component of all CTE course sequences.

** Lab courses are to be taught concurrently with the associated level course (i.e., level two course with the level two lab course) – see individual course descriptions for requirements and prerequisites.

COURSE DESCRIPTIONS

ARCHITECTURE & CONSTRUCTION				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Air Conditioning and Refrigeration I	HVACR I	1	L1	47.0201
<p><i>Prerequisite: None</i></p> <p>This course will introduce students to the basic operation of air conditioning principles and practices. Applications include principles of an effective employee, industrial safety standards, thermodynamics, psychometrics, piping techniques, control systems, cooling system service, and electric heat systems.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Air Conditioning and Refrigeration II	HVACR II	1	L2	47.0201
<p><i>Prerequisite: Air Conditioning and Refrigeration I</i></p> <p>This course is a continuation of Air Conditioning and Refrigeration I. This course focuses intermediate air conditioning and refrigeration students on servicing air handling systems, heat pumps, gas heat systems, commercial refrigeration systems, and icemakers. Instruction is provided in system installation, troubleshooting techniques, calculation of heat loss/gain, ductwork size and design, air balance, and pneumatic controls. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Air Conditioning and Refrigeration II LAB	HVACR II L	1	L2L	47.0201
<p><i>Prerequisite: Concurrent enrollment in Air Conditioning and Refrigeration II</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Air Conditioning and Refrigeration III	HVACR III	1	L3C	47.0201
<p><i>Prerequisite: Air Conditioning and Refrigeration II</i></p> <p>This course is a continuation of Air Conditioning and Refrigeration II. This course provides advanced air conditioning and refrigeration students with instruction in advanced techniques and processes. The students will continue to develop all skills learned in Air Conditioning and Refrigeration I and II. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Air Conditioning and Refrigeration III LAB	HVACR III L	1	L3L	47.0201
<p><i>Prerequisite: Concurrent enrollment in Air Conditioning and Refrigeration III</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Air Conditioning and Refrigeration Advanced Studies	HVACR AS	1	AS	47.0201
<p><i>Prerequisite: Air Conditioning and Refrigeration III</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Architectural Drafting and Design I	ARCH CADD I	1	L1	15.1303
<p><i>Prerequisite: None</i></p> <p>This course provides CADD (Computer-Aided Drafting and Design) students with the basic principles of architectural drawing and design and introductory civil engineering skills. This course also provides a basic understanding of current building codes, basic building construction methods, building materials, and architectural drafting information and methods. Activities are provided to develop the student's architectural CADD and civil engineering skills. The appropriate use of technology is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Architectural Drafting and Design II	ARCH CADD II	1	L2	15.1303
<p><i>Prerequisite: Architectural Drafting and Design I</i></p> <p>This course is a continuation of Architectural Drafting and Design I. This course provides intermediate CADD (Computer-Aided Drafting and Design) students with advanced principles of architectural drawing and design and civil engineering skills. This course will expand the students' knowledge of current building codes, building construction methods, building materials, and architectural drafting information and methods. Activities are provided to develop the student's architectural CADD and civil engineering skills. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Architectural Drafting and Design II LAB	ARCH CADD II L	1	L2L	15.1303
<p><i>Prerequisite: Concurrent enrollment in Architectural Drafting and Design II</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Architectural Drafting and Design III	ARCH CADD III	1	L3C	15.1303
<p><i>Prerequisite: Architectural Drafting and Design II</i></p> <p>This course is a continuation of Architectural Drafting and Design II. This course provides advanced CADD (Computer-Aided Drafting and Design) students with instruction in advanced techniques and processes. The students will continue to develop all skills learned in Architectural Drafting and Design I and II. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Architectural Drafting and Design III LAB	ARCH CADD III L	1	L3L	15.1303
<p><i>Prerequisite: Concurrent enrollment in Architectural Drafting and Design III</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Architectural Drafting and Design Advanced Studies	ARCH CADD AS	1	AS	15.1303
<p><i>Prerequisite: Architectural Drafting and Design III</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Building Maintenance Services I	BUILD MAINT I	1	L1	46.0401
<p><i>Prerequisite: None</i></p> <p>This course prepares students for entry-level jobs as building maintenance or custodial workers. Students are provided with occupational training that includes floor and carpet care, wall maintenance, basic hand tool usage, window and furniture cleaning, and the proper handling and application of cleaning and floor care compounds. Students also develop skills in the safe use of power cleaning equipment and tools.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Building Maintenance Services II	BUILD MAINT II	1	L2C	46.0401
<p><i>Prerequisite: Building Maintenance Services I</i></p> <p>This course is a continuation of Building Maintenance Services I. This course provides intermediate building maintenance students with instruction in advanced techniques on the safe use of power cleaning equipment, tools, and processes. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Construction Technology I	CONST TECH I	1	L1	46.0000
<p><i>Prerequisite: None</i></p> <p>This course will introduce students to the world of construction. Through a hands-on approach, each student will develop basic understanding in the areas of construction: electrical, plumbing, blueprint reading, pre-engineering, model building, carpentry, and rough framing. Practical application of safe work habits and the correct use of tools and equipment will be emphasized throughout this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Construction Technology II	CONST TECH II	1	L2	46.0000
<p><i>Prerequisite: Construction Technology I</i></p> <p>This course is a continuation of Construction Technology I. This course provides intermediate construction students with knowledge and skills in blueprint reading, surveying, site development, scaffolding, electrical, plumbing, and masonry. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Construction Technology II LAB	CONST TECH II L	1	L2L	46.0000
<p><i>Prerequisite: Concurrent enrollment in Construction Technology II</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Construction Technology III	CONST TECH III	1	L3C	46.0000
<p><i>Prerequisite: Construction Technology II</i></p> <p>This course is a continuation of Construction Technology II. This course provides advanced construction students with knowledge and skills in finish carpentry and cabinetmaking for construction applications. Through hands-on projects, students develop technical skills that are used throughout the construction industry. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Construction Technology III LAB	CONST TECH III L	1	L3L	46.0000
<p><i>Prerequisite: Concurrent enrollment in Construction Technology III</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Construction Technology Advanced Studies	CONST TECH AS	1	AS	46.0000
<p><i>Prerequisite: Construction Technology III</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Introduction to Drafting and Design	INTRO CADD	.5	PL1	15.1302
<p><i>Prerequisite: None</i></p> <p>This half-credit course provides introductory instruction in an abbreviated schedule format to the fundamentals of mechanical and architectural drafting and design. This course provides students with the knowledge and practice required to produce basic multi-view drawings, pictorial drawings, and dimensioning. Students will gain experience using both sketching techniques and have limited exposure to computer-assisted drafting programs.</p> <p>Please note: This course is not exploratory in nature; rather, it is designed to introduce concepts included in the Architectural and Mechanical Drafting and Design State Standards. Students will be prepared to enter the L1 course outlined in the course sequences for these program areas. This pre-level 1 (PL1) course is currently scheduled to be phased out after the 2013-14 school year. All school districts are encouraged to start students with the L1 course, the first full-credit course in the program area sequence.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Drafting and Design I	CADD I	1	L1	15.1302
<p><i>Prerequisite: None</i></p> <p>This course introduces the student to the fundamentals of mechanical and architectural drawing. This course provides students with the knowledge and practice required to produce and analyze multi-view drawings, pictorial drawings, and dimensioning. Students will gain experience using both sketching techniques and computer assisted drafting programs. Various career opportunities and areas for postsecondary study will be explored.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Drafting and Design II	CADD II	1	L2	15.1302
<p><i>Prerequisite: Drafting and Design I</i></p> <p>This course is a continuation of Drafting and Design I. This course provides intermediate CADD (Computer-Aided Drafting and Design) students with advanced techniques and processes related to the various drafting and design industries. Areas of study include the development of advance CADD and sketching skills, plotting, scaling, auxiliary views, intersections, problem solving, critiquing, and team building. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Drafting and Design II LAB	CADD II L	1	L2L	15.1302
<p><i>Prerequisite: Concurrent enrollment in Drafting and Design II</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Drafting and Design III	CADD III	1	L3C	15.1302
<p><i>Prerequisite: Drafting and Design II</i></p> <p>This course is a continuation of Drafting and Design II. This course provides advanced CADD (Computer-Aided Drafting and Design) students with instruction in advanced techniques and processes. The students will continue to develop all skills learned in Drafting and Design I and II. Areas of study include both mechanical and architectural drafting and design concepts. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Drafting and Design III LAB	CADD III L	1	L3L	15.1302
<p><i>Prerequisite: Concurrent enrollment in Drafting and Design III</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Drafting and Design Advanced Studies	CADD AS	1	AS	15.1302
<p><i>Prerequisite: Drafting and Design III</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Introduction to Furniture and Cabinetmaking	INTRO FURN CAB	.5	PL1	48.0702
<p><i>Prerequisite: None</i></p> <p>This half-credit course provides introductory instruction in an abbreviated schedule format to the fundamentals of furniture and cabinetmaking. This course is intended to provide students with the basic knowledge and skills necessary to design, construct, and finish furniture and/or cabinets in the woodworking industry.</p> <p>Please note: This course is not exploratory in nature; rather, it is designed to introduce concepts included in the Furniture and Cabinetmaking State Standards. Students will be prepared to enter the L1 course outlined in the course sequences for this program area. This pre-level 1 (PL1) course is currently scheduled to be phased out after the 2013-14 school year. All school districts are encouraged to start students with the L1 course, the first full-credit course in the program area sequence.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Furniture and Cabinetmaking I	FURN CABINET I	1	L1	48.0702
<p><i>Prerequisite: None</i></p> <p>This course will introduce the beginning furniture and cabinetmaking student to the various stages of construction and assembly of wood products and related materials. This course is intended to provide students with the basic knowledge and skills necessary to design, construct, and finish furniture and/or cabinets in the woodworking industry. Through the course activities the student will gain an understanding of safety procedures, machine operation, and industrial applications.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Furniture and Cabinetmaking II	FURN CABINET II	1	L2	48.0702
<p><i>Prerequisite: Furniture and Cabinetmaking I</i></p> <p>This course is a continuation of Furniture and Cabinetmaking I. This course provides intermediate furniture and cabinetmaking student with the necessary knowledge and skills to pursue employment in related industries. This course will increase knowledge gained in Furniture and Cabinetmaking I. Laboratory activities will include advanced processes using tools and equipment currently being used by the industry, including the software and hardware components of computer numerical-controlled (CNC) equipment. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Furniture and Cabinetmaking III	FURN CABINET III	1	L3C	48.0702
<p><i>Prerequisite: Furniture and Cabinetmaking II</i></p> <p>This course is a continuation of Furniture and Cabinetmaking II. This course provides advanced furniture and cabinetmaking students with knowledge and skills in finish carpentry and cabinetmaking for construction applications. Through hands-on projects, students develop technical skills that are used throughout the construction industry. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Furniture and Cabinetmaking Advanced Studies	FURN CABINET AS	1	AS	48.0702
<p><i>Prerequisite: Furniture and Cabinetmaking III</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				

WORK EXPERIENCE:

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Work Experience – Architecture and Construction	WORK EXPER CONST	1	WK	99.0002
<p><i>Prerequisite: None</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth work experience that applies the processes, concepts, and principles as described in the classroom instruction. This course will encourage students to explore and develop advanced skills through work-based learning directly related to the program of study. The course must follow NAC 389.562, 389.564, 389.566 regulations.</p>				

MANUFACTURING

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Electronic Technology I	ELEC TECH I	1	L1	47.0105
<p><i>Prerequisite: None</i></p> <p>This course introduces the student to electronic practices and fundamentals, roles of electronics in communications and industry, and career development. Topics include safety, tools, basic direct current (DC), alternating current (AC), schematics, soldering, measuring electricity, Ohm's/Watt's/Kirchhoff's Laws, semiconductors, electronic circuits, and digital theory.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Electronic Technology II	ELEC TECH II	1	L2	47.0105
<p><i>Prerequisite: Electronic Technology I</i></p> <p>This course is a continuation of Electronic Technology I. This course introduces intermediate students to advanced practices, principles, special equipment and materials. Students will develop their knowledge and skills learned in Electronic Technology I. Topics include safety, inductive/capacitive/RCL circuits, semiconductor devices, rectifier/filter circuits, discrete devices and such skills necessary to obtain meaningful employment in the electronics industry. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Electronic Technology II LAB	ELEC TECH II L	1	L2L	47.0105
<p><i>Prerequisite: Concurrent enrollment in Electronic Technology II</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Electronic Technology III	ELEC TECH III	1	L3C	47.0105
<p><i>Prerequisite: Electronic Technology II</i></p> <p>This course is a continuation of Electronic Technology II. This course provides advanced electronics students with instruction in advanced techniques and processes. They will continue to develop all skills learned in Electronic Technology I and II. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Electronic Technology III LAB	ELEC TECH III L	1	L3L	47.0105
<p><i>Prerequisite: Concurrent enrollment in Electronic Technology III</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Electronic Technology Advanced Studies	ELEC TECH AS	1	AS	47.0105
<p><i>Prerequisite: Electronic Technology III</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Machine Tool Technology I	MACHINE TOOL I	1	L1	48.0501
<p><i>Prerequisite: None</i></p> <p>This course introduces students to the basic skills and machines needed in precision metal work. Students gain machining skills while working with lathes, milling machines, surface grinders, drill presses, and other equipment. In addition, students learn the basics of blueprint reading, precision measuring, layout, and machining process planning.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Machine Tool Technology I LAB	MACHINE TOOL I L	1	L1L	48.0501
<p><i>Prerequisite: Concurrent enrollment in Machine Tool Technology I</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Machine Tool Technology II	MACHINE TOOL II	1	L2C	48.0501
<p><i>Prerequisite: Machine Tool Technology I</i></p> <p>This course is a continuation of Machine Tool Technology I. This course provides advanced machine tool technology students with more in-depth skill development in various types of precision tool operation, especially using mills, lathes, and surface grinders to perform machining tasks. Power cutoff saws and power band saws are also covered. Students also explore the use of computer and numerical controlled machining. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Machine Tool Technology II LAB	MACHINE TOOL II L	1	L2L	48.0501
<p><i>Prerequisite: Concurrent enrollment in Machine Tool Technology II</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Mechanical Drafting and Design I	MECH CADD I	1	L1	15.1306
<p><i>Prerequisite: None</i></p> <p>This course provides beginning CADD (Computer-Aided Drafting and Design) students with the basic principles of mechanical and technical drawing. This course provides students with the knowledge and practice required to produce and analyze multi-view drawings, pictorial drawings, and dimensioning. Students will gain experience using both sketching techniques and computer assisted drafting programs. Various career opportunities and areas for postsecondary study will be explored.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Mechanical Drafting and Design II	MECH CADD II	1	L2	15.1306
<p><i>Prerequisite: Mechanical Drafting and Design I</i></p> <p>This course is a continuation of Mechanical Drafting and Design I. This course provides intermediate CADD (Computer-Aided Drafting and Design) students with advanced techniques and processes of the mechanical design industry. Areas of study include electrical and mechanical engineering design, geometric dimensioning and tolerancing, pattern development, and other engineering design technologies. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Mechanical Drafting and Design II LAB	MECH CADD II L	1	L2L	15.1306
<p><i>Prerequisite: Concurrent enrollment in Mechanical Drafting and Design II</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Mechanical Drafting and Design III	MECH CADD III	1	L3C	15.1306
<p><i>Prerequisite: Mechanical Drafting and Design II</i></p> <p>This course is a continuation of Mechanical Drafting and Design II. This course provides advanced CADD (Computer-Aided Drafting and Design) students with advanced techniques and processes of the mechanical design industry. They will continue to develop all skills learned in Mechanical Drafting and Design I and II. Areas of study include electrical and mechanical engineering design, geometric dimensioning and tolerancing, pattern development, and other engineering design technologies. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Mechanical Drafting and Design III LAB	MECH CADD III L	1	L3L	15.1306
<p><i>Prerequisite: Concurrent enrollment in Mechanical Drafting and Design III</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Mechanical Drafting and Design Advanced Studies	MECH CADD AS	1	AS	15.1306
<p><i>Prerequisite: Mechanical Drafting and Design III</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Mechanical Technology I	MECH TECH I	1	L1	47.0303
<p><i>Prerequisite: None</i></p> <p>This course introduces students to the operation and maintenance of various mechanical, electrical, and fluid power systems. Content includes general skills in the use of tools, safety, equipment, materials, and problem solving. Fundamental skills such as the proper use of fasteners, safety practices, precision measuring tools, and electrical test equipment will be mastered.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Mechanical Technology II	MECH TECH II	1	L2	47.0303
<p><i>Prerequisite: Mechanical Technology I</i></p> <p>This course is a continuation of Mechanical Technology I. This course provides intermediate mechanical technology students opportunities to explore the various forms of power application mechanisms. Areas of emphasis include robotics, hydraulics, pneumatics, electrical, mechanical, and other systems of power transmission. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Mechanical Technology II LAB	MECH TECH II L	1	L2L	47.0303
<p><i>Prerequisite: Concurrent enrollment in Mechanical Technology II</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Mechanical Technology III	MECH TECH III	1	L3C	47.0303
<p><i>Prerequisite: Mechanical Technology II</i></p> <p>This course is a continuation of Mechanical Technology II. This course provides advanced mechanical technology students with instruction in advanced techniques and processes. Areas of emphasis include assembling, operating, and maintaining various electrical motor controllers, mechanical power transmission systems, and high pressure fluid power systems. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Mechanical Technology III LAB	MECH TECH III L	1	L3L	47.0303
<p><i>Prerequisite: Concurrent enrollment in Mechanical Technology III</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Mechanical Technology Advanced Studies	MECH TECH AS	1	AS	47.0303
<p><i>Prerequisite: Mechanical Technology III</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Introduction to Metalworking	INTRO METALS	.5	PL1	48.0511
<p><i>Prerequisite: None</i></p> <p>This half-credit course provides introductory instruction in an abbreviated schedule format to the fundamentals of metalworking. The areas of instruction include fundamentals of sheet and bench metal, oxyacetylene welding and cutting, and arc welding. This course will emphasize instruction in mathematics and measurement which will be used in completing metalworking projects and assignments.</p> <p>Please note: This course is not exploratory in nature; rather, it is designed to introduce concepts included in the Metalworking State Standards. Students will be prepared to enter the L1 course outlined in the course sequences for this program area. This pre-level 1 (PL1) course is currently scheduled to be phased out after the 2013-14 school year. All school districts are encouraged to start students with the L1 course, the first full-credit course in the program area sequence.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Metalworking I	METALWORKING I	1	L1	48.0511
<p><i>Prerequisite: None</i></p> <p>This course introduces students to a general overview of metalworking processes. Students will gain an understanding of equipment, tools, safety procedures, machine operation, metal-fabricating methods, industrial applications, and problem solving. Students will be introduced to career opportunities and necessary job skills.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Metalworking II	METALWORKING II	1	L2	48.0511
<p><i>Prerequisite: Metalworking I</i></p> <p>This course is a continuation of Metalworking I. This course will enhance students' occupational levels of training, understanding, and skill development in the metal-working processes. Emphasis will be directed toward the principles of metallurgy, metal lathe operation, forging methods, casting process, welding, and heat-treating procedures. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Metalworking III	METALWORKING III	1	L3C	48.0511
<p><i>Prerequisite: Metalworking II</i></p> <p>This course is a continuation of Metalworking II. This course is designed to review the elements and processes of metalworking. Students will further develop skills by learning complex metal machining procedures, metallurgy, and industrial production methods and controls. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Metalworking Advanced Studies	METALWORKING AS	1	AS	48.0511
<p><i>Prerequisite: Metalworking III</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Renewable Energy Technology I	RENEW ENERGY I	1	L1	15.0503
<p><i>Prerequisite: None</i></p> <p>This course introduces students to the development of energy sources from wind, solar, biomass, and geothermal resources. Students will engage in the use and development of energy conversion systems such as solar conversion systems, bioconversion systems, and other renewable energy sources. Students will also explore environmental impacts and availability of renewable energy resources.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Renewable Energy Technology II	RENEW ENERGY II	1	L2	15.0503
<p><i>Prerequisite: Renewable Energy Technology I</i></p> <p>This course is a continuation of Renewable Energy Technology I. This course provides intermediate renewable energy technology students with instruction in advanced techniques and processes. Areas of emphasis include electric motors, programmable logic controllers, instrumentation, and basic electricity. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Renewable Energy Technology III	RENEW ENERGY III	1	L3C	15.0503
<p><i>Prerequisite: Renewable Energy Technology II</i></p> <p>This course is a continuation of Renewable Energy Technology II. This course provides advanced renewable energy technology students with instruction in advanced techniques and processes. Areas of emphasis include solar energy, wind energy, and geothermal energy recourses. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Renewable Energy Technology Advanced Studies	RENEW ENERGY AS	1	AS	15.0503
<p><i>Prerequisite: Renewable Energy Technology III</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Welding Technology I	WELDING TECH I	1	L1	48.0508
<p><i>Prerequisite: None</i></p> <p>This course will introduce the student to the concepts and practices in welding while allowing the more ambitious student to gain occupational training experience necessary to participate in the American Welding Society Certification test. This course is intended to provide students with the basic knowledge, skills, and theory in the characteristics of metals, their structure and properties, and welding technologies. Students will gain an understanding of welding equipment, tools, safety procedures, machine operation, and industrial applications, and provide them with entry-level skills for employment.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Welding Technology II	WELDING TECH II	1	L2	48.0508
<p><i>Prerequisite: Welding Technology I</i></p> <p>This course is a continuation of Welding I. This course provides intermediate welding students the ability to augment and further their skills and knowledge levels. Areas of study will include advanced layout and fabrication methodologies, gas tungsten arc welding of aluminum, stainless steel and TIG spot welding, welding metallurgy, and electric theory. All student activities are designed to enhance students' skill levels toward achievement of American Welding Society certification and/or American Society of Mechanical Engineering welding certification. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Welding Technology II Lab	WELDING TECH II L	1	L2L	48.0508
<p><i>Prerequisite: Concurrent enrollment in Welding Technology II</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Welding Technology III	WELDING TECH III	1	L3C	48.0508
<p><i>Prerequisite: Welding Technology II</i></p> <p>This course is a continuation of Welding II. This course provides advanced welding students the ability to augment and further their skills and knowledge levels. All student activities are designed to prepare the students' skill levels to achieve the American Welding Society certification and/or American Society of Mechanical Engineering welding certification. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Welding Technology III Lab	WELDING TECH III L	1	L3L	48.0508
<p><i>Prerequisite: Concurrent enrollment in Welding Technology III</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Welding Technology Advanced Studies	WELDING TECH AS	1	AS	48.0508
<p><i>Prerequisite: Welding III</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				

WORK EXPERIENCE:

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Work Experience – Manufacturing	WORK EXPER MANUF	1	WK	99.0013
<p><i>Prerequisite: None</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth work experience that applies the processes, concepts, and principles as described in the classroom instruction. This course will encourage students to explore and develop advanced skills through work-based learning directly related to the program of study. The course must follow NAC 389.562, 389.564, 389.566 regulations.</p>				

SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
PLTW-Aerospace Engineering	PLTW AEROSPACE ENG	1	L3C	14.0201
<p><i>Prerequisite: PLTW-Principles of Engineering</i></p> <p>*Schools must be affiliated with the Project Lead The Way™ program to offer this course*</p> <p>This course is a continuation of the Project Lead the Way™ Pathway to Engineering curriculum. This course explores the evolution of flight, navigation and control, flight fundamentals, aerospace materials, propulsion, space travel, and orbital mechanics. In addition, this course presents alternative applications for aerospace engineering concepts. Students analyze, design, and build aerospace systems. They apply knowledge gained throughout the course in a final presentation about the future of the industry and their professional goals.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
PLTW-Biotechnical Engineering	PLTW BIOTECH ENG	1	L3C	14.0501
<p><i>Prerequisite: PLTW-Principles of Engineering</i></p> <p>*Schools must be affiliated with the Project Lead The Way™ program to offer this course*</p> <p>This course is a continuation of the Project Lead the Way™ Pathway to Engineering curriculum. In this course students explore the diverse fields of biotechnology. Hands-on projects engage students in engineering design problems related to biomechanics, cardiovascular engineering, genetic engineering, tissue engineering, biomedical devices, forensics and bioethics. Students, usually at the 11th and 12th grade level, apply biological and engineering concepts to design materials and processes that directly measure, repair, improve and extend living systems.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
PLTW-Civil Engineering and Architecture	PLTW CIVIL ENG	1	L3C	14.0401
<p><i>Prerequisite: PLTW-Principles of Engineering</i></p> <p>*Schools must be affiliated with the Project Lead The Way™ program to offer this course*</p> <p>This course is a continuation of the Project Lead the Way™ Pathway to Engineering curriculum. Students learn about various aspects of civil engineering and architecture and apply their knowledge to the design and development of residential and commercial properties and structures. In addition, students use 3D design software to design and document solutions for major course projects. Students communicate and present solutions to their peers and members of a professional community of engineers and architects.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
PLTW-Computer Integrated Manufacturing	PLTW COMP INT MFG	1	L3C	14.1901
<p><i>Prerequisite: PLTW-Principles of Engineering</i></p> <p>*Schools must be affiliated with the Project Lead The Way™ program to offer this course*</p> <p>This course is a continuation of the Project Lead the Way™ Pathway to Engineering curriculum. Students answer the questions: How are things made? What processes go into creating products? Is the process for making a water bottle the same as it is for a musical instrument? How do assembly lines work? How has automation changed the face of manufacturing? While students discover the answers to these questions, they're learning about the history of manufacturing, robotics and automation, manufacturing processes, computer modeling, manufacturing equipment, and flexible manufacturing systems</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
PLTW-Digital Electronics	PLTW DIG ELEC	1	L3C	15.0303
<p><i>Prerequisite: PLTW-Principles of Engineering</i></p> <p>*Schools must be affiliated with the Project Lead The Way™ program to offer this course*</p> <p>This course is a continuation of the Project Lead the Way™ Pathway to Engineering curriculum. Digital electronics is the foundation of all modern electronic devices such as mobile phones, MP3 players, laptop computers, digital cameras and high-definition televisions. Students are introduced to the process of combinational and sequential logic design, engineering standards and technical documentation.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
PLTW-Engineering Design and Development	PLTW ENG DESG DEV	1	AS	14.0101
<p><i>Prerequisite: PLTW-Aerospace Engineering or PLTW-Biotechnical Engineering or PLTW-Civil Engineering and Architecture or PLTW-Computer Integrated Manufacturing or PLTW-Digital Electronics</i></p> <p>*Schools must be affiliated with the Project Lead The Way™ program to offer this course*</p> <p>This course is the capstone course of the Project Lead the Way™ Pathway to Engineering curriculum. In this capstone course, students work in teams to design and develop an original solution to a valid open-ended technical problem by applying the engineering design process. Students perform research to choose, validate, and justify a technical problem. After carefully defining the problem, teams design, build, and test their solutions while working closely with industry professionals who provide mentoring opportunities. Finally, student teams present and defend their original solution to an outside panel. Upon successful completion of this program, students will be prepared for entry into an Engineering program at the college level.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
PLTW-Introduction to Engineering Design	PLTW ENG DESG	1	L1	14.0101
<p><i>Prerequisite: None</i></p> <p>*Schools must be affiliated with the Project Lead The Way™ program to offer this course*</p> <p>This course is the entry-level course of the Project Lead the Way™ Pathway to Engineering curriculum. The major focus of IED is the design process and its application. Through hands-on projects, students apply engineering standards and document their work. Students use industry standard 3D modeling software to help them design solutions to solve proposed problems, document their work using an engineer's notebook, and communicate solutions to peers and members of the professional community.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
PLTW-Principles of Engineering	PLTW PRIN ENG	1	L2	14.0101
<p><i>Prerequisite: PLTW-Introduction to Engineering Design</i></p> <p>*Schools must be affiliated with the Project Lead The Way™ program to offer this course*</p> <p>This course is a continuation of the Project Lead the Way™ Pathway to Engineering curriculum. This survey course exposes students to major concepts they'll encounter in a post-secondary engineering course of study. Topics include mechanisms, energy, statics, materials, and kinematics. They develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges, document their work and communicate solutions.</p>				

WORK EXPERIENCE:

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Work Experience – Science Technology Engineering Mathematics	WORK EXPER STEM	1	WK	99.0015
<p><i>Prerequisite: None</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth work experience that applies the processes, concepts, and principles as described in the classroom instruction. This course will encourage students to explore and develop advanced skills through work-based learning directly related to the program of study. The course must follow NAC 389.562, 389.564, 389.566 regulations.</p>				

TRANSPORTATION, DISTRIBUTION & LOGISTICS

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Aircraft Systems and Structures	AIRCRAFT STRUCT	1	L2	49.0101
<p><i>Prerequisite: Fundamentals of Aerospace and Aviation</i></p> <p>This course is designed to give the student an in depth knowledge about the systems and structures found in today's aircraft. The student becomes familiar with aircraft structural materials, coverings, electrical systems, hydraulic systems, computer systems, environmental systems, safety equipment, control surfaces, power plants, and avionics systems. Though the knowledge gained in studying aircraft systems and structures, the student learns the fundamentals to maintain and safely operate an aircraft. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Automotive Technology I	AUTO TECH I	1	L1	47.0604
<p><i>Prerequisite: None</i></p> <p>This course will introduce students to the operational and scientific nature of the automotive component systems including fuel, intake, exhaust, ignition, lubrication, braking, cooling, and suspension systems. Practical application of safe work habits and the correct use of tools and precision test instruments will be emphasized throughout the course</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Automotive Technology II	AUTO TECH II	1	L2	47.0604
<p><i>Prerequisite: Automotive Technology I</i></p> <p>This course is a continuation of Automotive Service Technology I. This course provides intermediate automotive technology students with laboratory activities including tasks with advanced equipment to diagnose and service modern automotive systems. This course focuses on safety, engine repair, automatic transmission, manual transmission, manual drive train, drive axles, clutch systems, suspension and steering, heating and air conditioning, engine performance, braking systems, and basic electrical systems. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Automotive Technology II LAB	AUTO TECH II L	1	L2L	47.0604
<p><i>Prerequisite: Concurrent enrollment in Automotive Technology II</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Automotive Technology III	AUTO TECH III	1	L3C	47.0604
<p><i>Prerequisite: Automotive Technology II</i></p> <p>This course is a continuation of Automotive Service Technology II. This course provides advanced automotive technology students with in-depth study and skill development in the repair of automotive engines, engine performance, machine operations, steering and suspension service, drive train service, and air conditioning system service. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Automotive Technology III LAB	AUTO TECH III L	1	L3L	47.0604
<p><i>Prerequisite: Concurrent enrollment in Automotive Technology III</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Automotive Technology Advanced Studies	AUTO TECH AS	1	AS	47.0604
<p><i>Prerequisite: Automotive Technology III</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Automotive Technology I AYES	AUTO AYES I	1	L1	47.0604
<p><i>Prerequisite: None</i></p> <p>This course will introduce students to the operational and scientific nature of the automotive component systems including fuel, intake, exhaust, ignition, lubrication, braking, cooling, and suspension systems. Practical application of safe work habits and the correct use of tools and precision test instruments will be emphasized throughout the course. Students will utilize the AYES school to career activities, curriculum, and processes. The program must be certified and follow the national program standards and requirements of AYES (Automotive Youth Education Systems).</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Automotive Technology II AYES	AUTO AYES II	1	L2	47.0604
<p><i>Prerequisite: Automotive Technology I AYES</i></p> <p>This course is a continuation of Automotive Service Technology I AYES. This course provides intermediate automotive technology students with laboratory activities, including tasks with advanced equipment, to diagnose and service modern automotive systems. This course focuses on safety, engine repair, automatic transmission, manual transmission, manual drive train, drive axles, clutch systems, suspension and steering, heating and air conditioning, engine performance, braking systems, basic electrical systems, and employability skills. Students will utilize the AYES school to career activities, curriculum, and processes. The program must be certified and follow the national program standards and requirements of AYES (Automotive Youth Education Systems). The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Automotive Technology II AYES LAB	AUTO AYES II L	1	L2L	47.0604
<p><i>Prerequisite: Concurrent enrollment in Automotive Technology II AYES</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Automotive Technology III AYES	AUTO AYES III	1	L3	47.0604
<p><i>Prerequisite: Automotive Technology II AYES</i></p> <p>This course is a continuation of Automotive Service Technology II AYES. This course provides advanced automotive technology students with in-depth study and skill development in the repair of automotive engines, engine performance, machine operations, steering and suspension service, drive train service, and air conditioning system service. Students will utilize the AYES school to career activities, curriculum, and processes. The program must be certified and follow the national program standards and requirements of AYES (Automotive Youth Education Systems). The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment in this field.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Automotive Technology III AYES LAB	AUTO AYES III L	1	L3L	47.0604
<p><i>Prerequisite: Concurrent enrollment in Automotive Technology III AYES</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Automotive Technology IV AYES	AUTO AYES IV	1	L4C	47.0604
<p><i>Prerequisite: Automotive Technology III AYES</i></p> <p>This course is a continuation of Automotive Service Technology III AYES. This course provides advanced automotive technology students with in-depth study and skill development in the repair of automotive engines, engine performance, machine operations, steering and suspension service, drive train service, and air conditioning system service. Students will utilize the AYES school to career activities, curriculum, and processes. The program must be certified and follow the national program standards and requirements of AYES (Automotive Youth Education Systems). The appropriate use of technology and industry-standard equipment is an integral part of this course. An internship may be incorporated into the course of study to assist students in making a transition from school to work. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Automotive Technology IV AYES LAB	AUTO AYES IV L	1	L4L	47.0604
<p><i>Prerequisite: Concurrent enrollment in Automotive Technology IV AYES</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Aviation Maintenance Technician I	AVIATION TECH I	1	L3	47.0607
<p><i>Prerequisite: Aircraft Systems and Structures</i></p> <p>This course will introduce students to the operational and scientific nature of the aviation maintenance industry. This course will introduce students to safe working habits, components of a reciprocating engine, aircraft control systems, and avionics systems. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Aviation Maintenance Technician II	AVIATION TECH II	1	L4C	47.0608
<p><i>Prerequisite: Aviation Maintenance Technician I</i></p> <p>This course is a continuation of Aircraft Maintenance Technician I. This course provides advanced aircraft maintenance students with instruction in advanced techniques and processes. The students will continue to develop all skills learned in Aircraft Maintenance Technician I. Areas of study include aircraft service requirements, ground operation procedures, and calculating the cost associated with aircraft preventive maintenance. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Collision Repair Technology I	COLL REPAIR I	1	L1	47.0603
<p><i>Prerequisite: None</i></p> <p>This course provides entry-level auto body students with an orientation to automobile body repair and refinishing. Students will develop skills with the latest tools, equipment, and techniques. They will learn surface preparation, paint refinishing, detailing, trade information, and such skills necessary to obtain meaningful employment in the collision repair industry.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Collision Repair Technology II	COLL REPAIR II	1	L2	47.0603
<p><i>Prerequisite: Collision Repair Technology I</i></p> <p>This course is a continuation of Collision Repair Technology I. This course provides intermediate collision repair students with instruction in minor metal repair, advanced painting techniques, and the application of acrylic paints. Students will continue to develop their skills in surface preparation, paint refinishing, detailing, trade information, and such skills necessary to obtain meaningful employment in the collision repair industry. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Collision Repair Technology II LAB	COLL REPAIR II L	1	L2L	47.0603
<p><i>Prerequisite: Concurrent enrollment in Collision Repair Technology II</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Collision Repair Technology III	COLL REPAIR III	1	L3C	47.0603
<p><i>Prerequisite: Collision Repair Technology II</i></p> <p>This course is a continuation of Collision Repair Technology II. This course provides advanced collision repair students with instruction in advanced techniques and processes. The students will continue to develop all skills learned in Collision Repair Technology I and II. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Collision Repair Technology III LAB	COLL REPAIR III L	1	L3L	47.0603
<p><i>Prerequisite: Concurrent enrollment in Collision Repair Technology III</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Collision Repair Technology Advanced Studies	COLL REPAIR AS	1	AS	47.0603
<p><i>Prerequisite: Collision Repair Technology III</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Diesel Technology I	DIESEL TECH I	1	L1	47.0605
<p><i>Prerequisite: None</i></p> <p>This course provides students with fundamental diesel engine repair and service skills. It will introduce the operational and scientific nature of diesel component systems. It will provide students with a basic knowledge of diesel engine equipment and operating principles. The diesel repair, maintenance, and diagnostic procedures will enhance students' awareness of the applications of scientific principles. The students will study the technological nature of diesel-powered equipment, which will include an understanding of the following areas: measurement, atomic structure and properties, chemical reactions, and electronic principles. The proper and safe use of tools and precision test equipment will be emphasized throughout the course.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Diesel Technology II	DIESEL TECH II	1	L2	47.0605
<p><i>Prerequisite: Diesel Technology I</i></p> <p>This course is a continuation of Diesel Technology I. This course is designed to provide intermediate students with diesel-powered equipment repair and service skills. It will provide students with in-depth knowledge of diesel engine operating principles and the application of diesel power to commercial trucks, buses, and off-road equipment. Practical application of safe work habits and the correct use of tools, shop equipment, and precision test instruments will be emphasized throughout the course. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Diesel Technology II LAB	DIESEL TECH II L	1	L2L	47.0605
<p><i>Prerequisite: Concurrent enrollment in Diesel Technology II</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Diesel Technology III	DIESEL TECH III	1	L3C	47.0605
<p><i>Prerequisite: Diesel Technology II</i></p> <p>This course is a continuation of Diesel Technology II. This course is designed to provide advanced students with diesel-powered equipment repair and service skills. It will provide students with in-depth knowledge of diesel engine operating principles and the application of diesel power to commercial trucks, buses, and off-road equipment. Practical application of safe work habits and the correct use of tools, shop equipment, and precision test instruments will be emphasized throughout the course. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Diesel Technology III LAB	DIESEL TECH III L	1	L3L	47.0605
<p><i>Prerequisite: Concurrent enrollment in Diesel Technology III</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Diesel Technology Advanced Studies	DIESEL TECH AS	1	AS	47.0605
<p><i>Prerequisite: Diesel Technology III</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Fundamentals of Aerospace and Aviation	FUND AEROSPACE	1	L1	49.0199
<p><i>Prerequisite: None</i></p> <p>This course will introduce students to the aerospace and aviation professions. Students will learn the history of flight, developmental trends, the principles of flight and navigation, the flight environment of an aerospace vehicle, the missions and roles of today's aerospace vehicles, the fundamentals of rocketry and space travel, and the physiology of flight.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Pilot I	PILOT I	1	L3C	49.0102
<p><i>Prerequisite: Aircraft Systems and Structures</i></p> <p>This course is a continuation of Aircraft Systems and Structures. This course provides intermediate aviation students with instruction in advanced techniques and processes. This course introduces student on the principles of flight, the aircraft flight environment, aircraft performance standards, flight controls, metrology, radio communications, flight planning, FAA regulations, navigation, the human body in flight, airman decisions making, accident prevention, Airman Information Manual, and the fundamentals of instrument flight. This course prepares the students to take the FAA Part 61.109 Private Pilot Written Exam. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Pilot II	PILOT II	1	AS	49.0102
<p><i>Prerequisite: Pilot I</i></p> <p>This course is a continuation of Private Pilot I. This course provides advanced aviation students with instruction in advanced techniques and processes. This course is designed to prepare students to successfully meet the FAA requirements for a Private Pilot License. The course provides the classroom instruction, simulators training, and flight training for private pilot evaluation and certification in a single engine airplane in accordance with FAA FAR part 61.109 and the FAA Practical Test Standards.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Pilot II LAB	PILOT II L	1	AS	49.0102
<p><i>Prerequisite: Concurrent enrollment in Pilot II</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Introduction to Power Equipment Technology	INTRO PWR EQUIP	.5	PL1	47.0606
<p><i>Prerequisite: None</i></p> <p>This half-credit course provides introductory instruction in an abbreviated schedule format to the fundamentals of power equipment technology. Students will study two-stroke and four-stroke cycle theory. Fundamental skills such as the proper use of fasteners, safety practices, precision measuring tools, and electrical test equipment will be mastered.</p> <p>Please note: This course is not exploratory in nature; rather, it is designed to introduce concepts included in the Power Equipment Technology or Automotive Technology State Standards. Students will be prepared to enter the L1 course outlined in the course sequences for these program areas. This pre-level 1 (PL1) course is currently scheduled to be phased out after the 2013-14 school year. All school districts are encouraged to start students with the L1 course, the first full-credit course in the program area sequence.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Power Equipment Technology I	PWR EQUIP I	1	L1	47.0606
<p><i>Prerequisite: None</i></p> <p>This course introduces the student to the fundamentals of the power sports and power equipment industries. Students will study two-stroke and four-stroke cycle theory. Fundamental skills such as the proper use of fasteners, safety practices, precision measuring tools, and electrical test equipment will be mastered. Instruction will be provided in the maintenance and repair of two-stroke and four-stroke cycle engines and their component systems such as electrical, fuel, starting, and cooling units. Students will troubleshoot basic systems, install replacement parts, and perform proper repairs.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Power Equipment Technology II	PWR EQUIP II	1	L2	47.0606
<p><i>Prerequisite: Power Equipment Technology I</i></p> <p>This course is a continuation of Power Equipment Technology I. This course provides intermediate power equipment students with instruction in advanced techniques and processes. They will continue to develop all skills learned in Power Equipment Technology I. Areas of study include seasonal maintenance, lubrication, exhaust systems, electrical systems, and braking systems. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Power Equipment Technology II LAB	PWR EQUIP II L	1	L2L	47.0606
<p><i>Prerequisite: Concurrent enrollment in Power Equipment Technology II</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Power Equipment Technology III	PWR EQUIP III	1	L3C	47.0606
<p><i>Prerequisite: Power Equipment Technology II</i></p> <p>This course is a continuation of Power Equipment Technology II. This course provides advanced power equipment students with instruction in advanced techniques and processes. They will continue to develop all skills learned in Power Equipment Technology I and II. Areas of study include power trains, chassis, and engine repair. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Power Equipment Technology III LAB	PWR EQUIP III L	1	L3L	47.0606
<p><i>Prerequisite: Concurrent enrollment in Power Equipment Technology III</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Power Equipment Technology Advanced Studies	PWR EQUIP AS	1	AS	47.0606
<p><i>Prerequisite: Power Equipment Technology III</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				

WORK EXPERIENCE:

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
Work Experience – Transportation Distribution and Logistics	WORK EXPER TRANS	1	WK	99.0016
<p><i>Prerequisite: None</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth work experience that applies the processes, concepts, and principles as described in the classroom instruction. This course will encourage students to explore and develop advanced skills through work-based learning directly related to the program of study. The course must follow NAC 389.562, 389.564, 389.566 regulations.</p>				