Nevada
Career and Technical Education
Course Catalog
2026-2027

This document was prepared by:

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

www.doe.nv.gov

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Nevada Career and Technical Education Course Catalog 2026-27

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Vision

All Nevada students are equipped and feel empowered to attain their vision of success

Mission

To improve student achievement and educator effectiveness by ensuring opportunities, facilitating learning, and promoting excellence

Table of Contents

Introduction

Purpose

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

- The CTE course and course sequence **teach 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 in-demand occupations. 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 **include 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 challenges to meet state and/or industry-standards.

Catalog Organization

Courses are organized according to the National Career Clusters® Framework. Courses within each Career Cluster area include the following elements: (1) Program Descriptions, (2) Program Course Sequences, (3) Course Descriptions, and (4) Course Data Information.

Program Descriptions

Each section begins with a description of the CTE Program of Study. This description provides a brief explanation of the overall purpose and instructional topics the student will have access to while completing the program of study.

Program Course Sequences

The course sequencing provided in each 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 Nevada CTE State standards in each program.

The sequencing tables provide the appropriate order of core courses in each program of study and concurrent or complementary courses. Programs are listed alphabetically. Each program identifies: (1) Core Sequence, (2) Concurrent Courses, (3) Complementary Course(s), and (4) State Skill Standards.

> The **core course sequence** identifies the courses listed in the sequential order required for the complete delivery of the State standards for that program. **Each student must progress through the core course sequence and pass each course to reach "completer" status.**
>
> **Concurrent and Complementary courses** are those courses that directly support additional time and instruction of the State standards and must align to a student's program of study. Concurrent and complementary courses are considered additional courses and do not count as progress toward "completer" status. Concurrent and complementary courses are not to be used in lieu of the courses in the core sequence for program completion. The use of concurrent and/or complementary courses must follow the sequence allowance rules listed below.

Concurrent and Complementary courses may be added to a student's program of study if all the following conditions are met:

- Enrollment in the concurrent core course for all lab courses;
- Enrollment in a complementary course is done **after** the completion of the core sequence or as noted in the course description;
- The course relates to the student's program of study;
- The student's schedule allows for additional courses;
- The course is an approved course in the Nevada CTE Course Catalog; and
- Prerequisites of the course are completed.

The **State Skill 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. 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. A technical assessment, if available, will be implemented for those programs with current industry validated standards. Regulation R019-24 filed September 16, 2024 permits students to earn an Industry Recognized Credential (IRC) in lieu of passing the End of Program (EOP) Assessment in order to earn the Certificate of Skill Attainment. IRCs earned by students must be on the list of industry-recognized credentials identified by the Governor's Office of Workforce Innovation (OWINN previously identified as GOWINN), pursuant to NRS 232.975. This list is maintained by the OWINN office and is located on OWINN website.

Course Descriptions

The **course descriptions** are organized by program then sequence within the program area's Career Cluster and include the course, prerequisites, and description (common foundational courses are not listed individually for each program they support). A course description is provided for each course. The descriptions are general and are intended to be used by school districts and schools for their annual catalogs, registration materials, etc. The description may be enhanced as desired at the local level. An example of the Animal Science course is shown below.

Animal Science

Prerequisite: Principles of Agriculture, Food, and Natural Resources

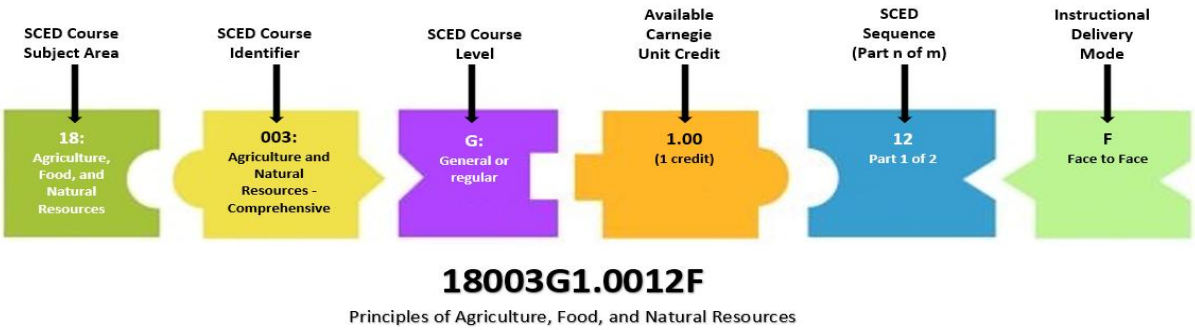
This course is a continuation of Principles of Agriculture, Food, and Natural Resources. This course allows advanced students to expand on skills and knowledge from Principles of Agriculture, Food, and Natural Resources while exploring the livestock and companion animal industries. This course covers 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 Agricultural 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.

Course Data Information (derived from the SCED Code Directory)

The majority of the **course data information** is to be used locally exactly as written in this catalog. This is important since it is the **School Courses for the Exchange of Data (SCED) Code, Classification of Instructional Programs (CIP) Code, Course Titles, and Non-Traditional** values that will populate the State Infinite Campus System (IC) and the System for Accountability Information in Nevada (SAIN). Through accurate use of the course data information, the CTE data reporting will be equally consistent and accurate. Furthermore, the data system will **not** recognize any course data that is inconsistent with those in this catalog and will prohibit the collection and recognition of the CTE course. The following notes on SCED are intended to aid district staff in implementing the data elements included in the CTE Course Catalog. The CTE SCED Code Directory, released by the CTE Accountability Office as a supplement to the CTE Course Catalog, is no longer a separate document. All information contained in that document is now included the annual Nevada Career and Technical Education Course Catalog.

Although still referenced, the Office of Career Readiness, Adult Learning, and Education Options (CRALEO) has phased out the use of course levels (e.g., L1, L2, L2C, L2L, L3, L3C, L3L, and AS). While the existing course levels are being maintained as districts continue to implement SCED codes, please note that the information is no longer included in the CTE Course Catalog. The same information can be determined using a course's full SCED Code (also entered as State Code in Infinite Campus, e.g., 19151G1.0012F).

SCED Codes are made up of four **main** elements:



- **SCED Subject Area** and **SCED Course Identifier:** The first five numbers (SCED Code) used by Infinite Campus (IC) to align program and course information. If not entered correctly, information will not populate in the CTE Reports.
- **SCED Course Level:** Please ensure that the core sequence courses and CTE Work Experience are noted as SCED Course Level "G". Course level "E" should be used for Concurrent courses (LAB) and Complementary Courses (Advanced Studies or continuation courses). Course Level "C" should be used for dual credit and dual enrollment courses. While the Course Data Information tables do not include "C" within any of the codes, that absence is only because dual credit/dual enrollment is a local decision and is not governed/known by NDE. **Please use a "C" code for dual credit/dual enrollment courses to ensure that they can be identified.** *Middle school courses utilize "X" for the SCED Course Level.*
- **Available Carnegie Unit Credit:** Most CTE courses are 1.00 credit. Exceptions are Information Technology Networking first-year courses, which are one semester in length, each course is 0.50 credits and both courses are required. Cosmetology second- and third-year courses are 6.00 credits.
  Depending on how districts administer credit or set up their course's credits, the concatenated code (SCED Course Number) may vary. However, **to complete a course, students must earn the unit credit as it appears in this document.** *Middle school courses utilize the SCED Lowest Grade 06 and SCED Highest Grade 08.*
- **Sequence of Courses:** This indicates the order in which courses should be taught (i.e., a course sequence of "12" indicates that it is the first course in a two-course sequence [L1], while a "22" course is the second course in a two-course sequence [L2C]).
- ***Instructional Delivery Mode:*** This designation is not included in the tables as it is a local decision and is not governed by NDE. The information will need to be added to the State Code in IC after copying and pasting the NECS code. The information will be entered in the State Defined section of the IC Course Master.

Note: Courses that **do not** utilize the SCED Codes listed in this catalog **will not** be pulled and **will not** count toward enrollment. There are courses that have new SCED Code information and the old SCED Code may no longer pull into enrollment reports. Please ensure you have the current SCED Code in your enrollment records.

The following notes are provided for additional guidance about the data elements found in the data tables included in this catalog:

- Lab courses are to be taught concurrently with the associated course (i.e., Multimedia Communications II with Multimedia Communications II Lab) and should appear with a Course Level of "**E**" and the same sequence as the course they accompany. Please see individual course descriptions for requirements and corequisites.
  The Advanced Studies courses allow students to continue taking courses beyond the completion level courses and are repeatable, unless otherwise noted. They should be entered with a Course Level of "**E**" and a sequence of "11".
  Complementary Courses are offered after completion of the program of study with continued instruction in the specific pathway(s). They should be entered with a Course Level "E" and a sequence of "11".
- CTE Work Experience courses should be entered with a Course Level of "**G**", a sequence of "11" and must follow NAC 389.562, 389.564, and 389.566 regulations.
- CTE is largely defined by courses that are one (1) credit in length.
- The non-traditional column identifies the courses and gender for which individuals from one gender comprise less than 25 percent of the individuals employed in each such career pathway. The course CIP Codes are used to identify this. This information can be found on the National Alliance for Partnerships in Equity (NAPE) Nontraditional Occupations Crosswalk page. https://napequity.org/nontraditional-occupations-crosswalk/
- The CIP Codes and SCED Codes are utilized for correctly aligning CTE courses to respective programs of study to ensure accurate state/federal data reporting, allocation funding, assessment rostering, etc.

Summary of Catalog Updates and Revisions

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

The catalog has been arranged by the **new** National Career Clusters® Framework clusters. Within each cluster are the correlating programs. There will be differences from previous catalogs due to program realignment. The old clusters have been listed after the program names in the Program Descriptions for reference.

Please note that there are fourteen (14) new Middle School Courses based on the new Career Clusters.

New Courses

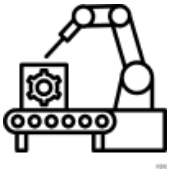
Cybersecurity II LAB

Family and Consumer Sciences II LAB

CTE Workplace Experience-Energy and Natural Resources

Program Course Sequence tables have been updated to reflect LAB courses as "**Concurrent Course(s)**" to help clarify the corequisite requirement of being enrolled in the associated course.

Program Alignment for Advanced Manufacturing



The Advanced Manufacturing Career Cluster blends innovative technologies and practices to enhance design and production. It covers areas such as engineering, research and development, automation and artificial intelligence, equipment maintenance, safety protocols, and quality control. This Cluster aims to increase efficiency, reduce waste, ensure safety, and produce high-quality goods, driving the industry's growth and adapting to modern demands.

- Advanced Manufacturing Technologies
- Engineering Foundations
- Industrial Maintenance

Program Descriptions
Advanced Manufacturing

Advanced Manufacturing Technologies (formerly in Manufacturing cluster)

The Advanced Manufacturing Technologies program introduces students to the fundamentals of manufacturing and automation. Areas of emphasis include print reading, spatial reasoning, engineering design process, basic electrical and mechanical systems, additive and subtractive manufacturing processes, fundamentals of electronics, switches and relays, quality control, and an introduction to robotic systems in manufacturing.

Engineering Foundations (formerly in Science, Technology, Engineering, and Mathematics cluster)

The Engineering Foundations program provides students the opportunity to learn various aspects of engineering fundamentals that would be required for any engineering field. Areas of study include safety, the engineering design process, impacts of engineering on society, sketching and documentation methods, material properties, power systems and energy principles, as well as statistics and kinematic principles.

Industrial Maintenance (formerly in Manufacturing cluster)

The Industrial Maintenance program provides students the opportunity to learn the operation and maintenance of various mechanical, electrical, and fluid power systems that occur in various industry settings. Areas of study include safety, tools usage, print reading, fundamental energy principles, power systems, mechanical systems, fluid systems, and basic electrical systems. In additional advanced mechanical systems will be used, fasteners and joining systems will be applied and diagnostics and trouble-shooting techniques will be investigated.

Program Course Sequences
Advanced Manufacturing

Program Name	Course Sequence	State Skill Standards*
Advanced Manufacturing Technologies	**Core Course Sequence** Advanced Manufacturing Technologies I Advanced Manufacturing Technologies II **Concurrent Course(s)** Advanced Manufacturing Technologies II Lab** **Complementary Course(s)** Advanced Manufacturing Technologies Advanced Studies Advanced Manufacturing Practices CTE Work Experience - Advanced Manufacturing Industry-Recognized Credential – Advanced Manufacturing Technologies	Advanced Manufacturing Technologies Program of Study with Complementary Course Standards
Engineering Foundations	**Core Course Sequence** Engineering Foundations I Engineering Foundations II **Concurrent Course(s)** Engineering Foundations II LAB ** **Complementary Course(s)** Engineering Foundations Advanced Studies Aerospace Engineering Architectural and Civil Engineering Electrical Engineering Environmental Engineering Mechanical Engineering CTE Work Experience - Advanced Manufacturing Industry Recognized Credential- Engineering Foundations	Engineering Foundations Program of Study with Complementary Courses Standards
Industrial Maintenance	**Core Course Sequence** Industrial Maintenance I Industrial Maintenance II **Concurrent Course(s)** Industrial Maintenance II LAB ** **Complementary Course(s)** Industrial Maintenance Advanced Studies Millwright Processes CTE Work Experience - Advanced Manufacturing Industry-Recognized Credential – Industrial Maintenance	Industrial Maintenance Program of Study with Complementary Course Standards

* 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 course – see individual course descriptions for requirements and corequisites.

Course Descriptions
Advanced Manufacturing

Advanced Manufacturing Technologies I

Prerequisite: None

The Advanced Manufacturing Technologies I course introduces the students to the fundamental advanced manufacturing skills such as measuring techniques, mathematic operations, 3D modeling, and the materials used in manufacturing. The fundamentals of power systems, control devices and various manufacturing processes will be investigated in this course. The use of robotics in Advanced Manufacturing will also be introduced.

Advanced Manufacturing Technologies II

Prerequisite: Advanced Manufacturing Technologies I

This course is a continuation of Advanced Manufacturing Technologies I. This course expands on the fundamental advanced manufacturing skills such as utilizing schematics and technical drawings, investigating the engineering design process, 3D modeling, and the materials used in manufacturing. Continuing the identification and use of power systems, control devices, sensors, actuators, and programmable logic controllers. Various manufacturing processes will be demonstrated in this course. The use of robotics in Advanced Manufacturing will also be continued.

Advanced Manufacturing Technologies II LAB

Corequisite: Concurrent enrollment in Advanced Manufacturing Technologies II

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.

Advanced Manufacturing Technologies Advanced Studies

Prerequisite: Completion of Advanced Automation Technologies Program of Study

This course is offered to students who have completed all content standards in the Advanced Manufacturing Technologies program of study and desire 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.

Advanced Manufacturing Practices

Prerequisite: Completion of Advanced Manufacturing Technologies Program of Study

This course is offered to students who have completed all content standards in the Advanced Manufacturing Technologies program of study. This course provides advanced manufacturing technologies students the ability to further their skills and knowledge levels. Areas of emphasis include product development, quality control, principles of automation, use of programmable logic controllers, and diagnostic/troubleshooting practices. 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.

Industry-Recognized Credential – Advanced Manufacturing Technologies

Prerequisite: Completion of Advanced Manufacturing Technologies Program of Study

This course is offered to students who have completed all content standards in the Advanced Manufacturing Technologies program of study and desire to pursue an Industry-Recognized Credential that aligns with the standards and skills associated with the Advanced Manufacturing Technologies Program of Study. This course is designed to expand the students' opportunities to pursue certification aligned with employment standards in the industry aligned with this program of study. The supervising teacher will provide instruction aligned with the certification requirements, monitor progress toward certification, and provide the students with appropriate testing or certification opportunities associated with the intended Industry-Recognized Credential that is the subject of the course. IRC's earned by students must be on the list of industry-recognized credentials identified by the Governor's Office of Workforce Innovation (OWINN). This course may be repeated for additional instruction and credit.

Engineering Foundations I

Prerequisite: None

This course is the entry-level course of the Engineering curriculum. The major focus of this course 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.

Engineering Foundations II

Prerequisite: Engineering Foundations I

This course is a continuation of the Engineering curriculum. This survey course exposes students to major concepts they will encounter in a postsecondary 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.

Engineering Foundations II LAB

Corequisite: Concurrent enrollment in Engineering Foundations II

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.

Engineering Foundations Advanced Studies

Prerequisite: Completion of Engineering Foundations Program of Study

This course is offered to students who have completed all content standards in the Engineering Foundations program of study and desire 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.

Aerospace Engineering

Prerequisite: Completion of Engineering Foundations Program of Study

This course is offered to students who have completed all content standards in the Engineering Foundations program of study. 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.

Architectural and Civil Engineering

Prerequisite: Completion of Engineering Foundations Program of Study

This course is offered to students who have completed all content standards in the Engineering Foundations program of study. 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.

Electrical Engineering

Prerequisite: Completion of Engineering Foundations Program of Study

This course is offered to students who have completed all content standards in the Engineering Foundations program of study. 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.

Environmental Engineering

Prerequisite: Completion of Engineering Foundations Program of Study

This course is offered to students who have completed all content standards in the Engineering Foundations program of study. In this course students investigate and design solutions in response to real-world challenges related to clean and abundant drinking water, food supply issues, and renewable energy. Applying knowledge of engineering, biology, and ecology through hands-on activities and simulations, students research and design potential solutions to these true-to-life challenges.

Mechanical Engineering

Prerequisite: Completion of Engineering Foundations Program of Study

This course is offered to students who have completed all content standards in the Engineering Foundations program of study. Students explore how things are made and the different processes that go into creating various products. Additionally, students learn about the history of manufacturing, the evolution of robotics and automation, manufacturing processes, computer modeling, manufacturing equipment, and flexible manufacturing systems.

Industry-Recognized Credential – Engineering Foundations

Prerequisite: Completion of Engineering Foundations Program of Study

This course is offered to students who have completed all content standards in the Engineering Foundations program of study and desire to pursue an Industry-Recognized Credential that aligns with the standards and skills associated with the Engineering Foundations Program of Study. This course is designed to expand the students' opportunities to pursue certification aligned with employment standards in the industry aligned with this program of study. The supervising teacher will provide instruction aligned with the certification requirements, monitor progress toward certification, and provide the students with appropriate testing or certification opportunities associated with the intended Industry-Recognized Credential that is the subject of the course. IRC's earned by students must be on the list of industry-recognized credentials identified by the Governor's Office of Workforce Innovation (OWINN). This course may be repeated for additional instruction and credit.

Industrial Maintenance I

Prerequisite: None

This course introduces students to the operation and maintenance of various mechanical, electrical, and fluid power systems that can be found in various industry settings. 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.

Industrial Maintenance II

Prerequisite: Industrial Maintenance I

This course is a continuation of Industrial Maintenance I. This course provides intermediate industrial maintenance students opportunities to explore the various forms of power and mechanical systems. Areas of emphasis include advanced mechanical systems, advanced joining systems, diagnostic and troubleshooting procedures, and analog and digital electronic principles. The appropriate use of technology and industry-standard equipment is an integral part of this course.

Industrial Maintenance II LAB

Corequisite: Concurrent enrollment in Industrial Maintenance II

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.

Industrial Maintenance Advanced Studies

Prerequisite: Completion of Industrial Maintenance Program of Study

This course is offered to students who have completed all content standards in the Industrial Maintenance program of study and desire 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.

Millwright Processes

Prerequisite: Completion of Industrial Maintenance Program of Study

This course is offered to students who have completed all content standards in the Industrial Maintenance program of study This course provides industrial maintenance students the ability to further their skills and knowledge levels. Areas of emphasis include power system principles, fastening and joining processes included in manufacturing and basic welding, application of fundamental electronic and instrumentation principles, including control technology and automation principles. 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.

Industry-Recognized Credential – Industrial Maintenance

Prerequisite: Completion of Industrial Maintenance Program of Study

This course is offered to students who have completed all content standards in the Industrial Maintenance program of study and desire to pursue an Industry-Recognized Credential that aligns with the standards and skills associated with the Industrial Maintenance Program of Study. This course is designed to expand the students' opportunities to pursue certification aligned with employment standards in the industry aligned with this program of study. The supervising teacher will provide instruction aligned with the certification requirements, monitor progress toward certification, and provide the students with appropriate testing or certification opportunities associated with the intended Industry-Recognized Credential that is the subject of the course. IRC's earned by students must be on the list of industry-recognized credentials identified by the Governor's Office of Workforce Innovation (OWINN). This course may be repeated for additional instruction and credit.

CTE Work Experience – Advanced Manufacturing

Prerequisite: Completion of Level 2 course in the qualifying program of study

This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth CTE 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.

Course Data Information - Advanced Manufacturing

Advanced Manufacturing Technologies

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
R	Advanced Manufacturing Technologies I	AMT I	15.0613	F	13	104	G	1.00	12	13104G1.0012
R	Advanced Manufacturing Technologies II	AMT II	15.0613	F	13	104	G	1.00	22	13104G1.0022
C**	Advanced Manufacturing Technologies II LAB	AMT II L	15.0613	F	13	104	E	1.00	22	13104E1.0022
C	Advanced Manufacturing Technologies Advanced Studies	AMT AS	15.0613	F	13	104	E	1.00	11	13104E1.0011
C	Advanced Manufacturing Processes	ADV MFG PRAC	15.0613	F	13	104	E	1.00	11	13104E1.0011
C	Industry-Recognized Credential-Advanced Manufacturing Technologies	IRC AMT	15.0613	F	13	999	E	1.00	11	13999E1.0011

Notes:

Advanced Manufacturing Technologies matched with: SCED 13104 Mechatronics

Advanced Manufacturing Processes matched with: SCED 13104 Mechatronics

Industry-Recognized Credential-Advanced Manufacturing Technologies matched with: SCED 13999 Manufacturing-Other

**Lab courses are to be taught concurrently with the associated level course (i.e., level two course with the level two lab course)

Nevada Career and Technical Education Course Catalog 2026-27

Course Data Information - Advanced Manufacturing (continued)

Engineering Foundations

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
R	Engineering Foundations I	ENG FOUND I	14.0101	F	21	005	G	1.00	12	21005G1.0012
R	Engineering Foundations II	ENG FOUND II	14.0101	F	21	005	G	1.00	22	21005G1.0022
C**	Engineering Foundations II LAB	ENG FOUND II L	14.0101	F	21	005	E	1.00	22	21005E1.0022
C	Engineering Foundations Advanced Studies	ENG FOUND AS	14.0101	F	21	005	E	1.00	11	21005E1.0011
C	Aerospace Engineering	AEROSPACE ENG	14.0201	F	21	013	E	1.00	11	21013E1.0011
C	Architectural and Civil Engineering	CIVIL ENG	14.0401	F	21	011	E	1.00	11	**21012**E1.0011
C	Electrical Engineering	ELEC ENG	14.1001	F	21	008	E	1.00	11	21008E1.0011
C	Environmental Engineering	ENVIRON SUS ENG	14.0501	F	21	014	E	1.00	11	21014E1.0011
C	Mechanical Engineering	MECH ENGR	14.1901	F	21	010	E	1.00	11	21010E1.0011
C	Industry-Recognized Credential-Engineering Foundations	IRC ENG FOUND	14.0101	F	21	999	E	1.00	11	21999E1.0011

Notes:

Engineering Foundations matched with:	SCED 21005 Engineering-Comprehensive
Aerospace Engineering matched with:	SCED 21013 Aerospace Engineering
Architectural and Civil Engineering matched with:	SCED **21012** Civil Engineering and Architecture (updated) (old 21011 Civil Engineering)
Electrical Engineering matched with:	SCED 21008 Digital Electronics
Environmental Engineering matched with:	SCED 21014 Biotechnical Engineering
Mechanical Engineering matched with:	SCED 21010 Computer Integrated Manufacturing
Industry-Recognized Credential-Engineering Foundations matched with:	SCED 21999 Engineering and Technology—Other

**Lab courses are to be taught concurrently with the associated level course (i.e., level two course with the level two lab course)

Nevada Career and Technical Education Course Catalog 2026-27

Course Data Information - Advanced Manufacturing (continued)

Industrial Maintenance

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
R	Industrial Maintenance I	IND MAINT I	47.0303	F	13	303	G	1.00	12	13303G1.0012
R	Industrial Maintenance II	IND MAINT II	47.0303	F	13	303	G	1.00	22	13303G1.0022
C**	Industrial Maintenance II LAB	IND MAINT II L	47.0303	F	13	303	E	1.00	22	13303E1.0022
C	Industrial Maintenance Advanced Studies	IND MAINT AS	47.0303	F	13	303	E	1.00	11	13303E1.0011
C	Millwright Processes	MILL PROC	47.0303	F	13	303	E	1.00	11	13303E1.0011
C	Industry-Recognized Credential-Industrial Maintenance	IRC IND MAINT	47.0303	F	13	999	E	1.00	11	13999E1.0011

Notes:

Industrial Maintenance matched with: SCED 13303 Industrial Maintenance

Millwright Processes matched with: SCED 13303 Industrial Maintenance

Industry-Recognized Credential-Industrial Maintenance matched with: SCED 13999 Manufacturing—Other

**Lab courses are to be taught concurrently with the associated level course (i.e., level two course with the level two lab course)

CTE Work Experience – Advanced Manufacturing

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
C	CTE Work Experience – Advanced Manufacturing	WORK EXPER MANUF	**99.0021**	F	13	**998**	G	1.00	11	**13998**G1.0011

Notes:

CTE Work Experience – Advanced Manufacturing matched with: SCED **13998** Manufacturing—Workplace Experience (old 13098 Processing/Production-Other)

Program Alignment for Agriculture

The Agriculture Career Cluster concentrates on scientific advancement of agriscience, cultivation, processing, and distribution of agricultural products, employing advanced technologies and sustainable practices to optimize global food systems. This Cluster also supports other plant- and animal-based industries including regenerative agriculture, sustainable logging, and fisheries. This Cluster has meaningful connections with the Energy and Natural Resources Cluster, highlighting a symbiotic relationship that emphasizes stewardship and resilient communities.

- Agricultural Welding, Power, and Structure Technology
- Animal Systems
- Plant Systems

Program Descriptions
Agriculture

Agricultural Welding, Power, and Structure Technology (formerly in Agriculture, Food and Natural Resources cluster)

The Agricultural Welding, Power, and Structure Technology program covers the foundational skills necessary for agricultural welding, power, and structural industry employment. Areas of study include general shop safety, basic welding, electrical applications, water management, agricultural drafting and construction, engines and power, basic hydraulics, machinery maintenance and repair, and leadership development.

Animal Systems (formerly in Agriculture, Food and Natural Resources cluster)

The Animal Systems program provides students with the principles of the livestock and red meat industry. Areas of study include the basic anatomy and physiology of domestic animals, genetics, reproduction, animal health and welfare, evaluation and selection of animals, land stewardship, marketing, careers, and leadership development.

Plant Systems (formerly in Agriculture, Food and Natural Resources cluster)

The Plant Systems program provides students with the principles of plant science, ornamental horticulture, floriculture, landscape design, and greenhouse management. Areas of study include safety practices, plant anatomy and physiology, plant identification, plant selection and care, propagation, growing media, nutrition, integrated pest management, plant technologies, growing greenhouse crops, greenhouse business concepts, careers, and leadership development.

Program Course Sequences
Agriculture

Program Name	Course Sequence	State Skill Standards*
Agricultural Welding, Power, and Structure Technology	**Core Course Sequence** Agricultural Welding, Power, and Structure Technology I Agricultural Welding, Power, and Structure Technology II **Concurrent Course(s)** Agricultural Welding, Power, and Structure Technology II Lab ** **Complementary Course(s)** Agricultural Welding, Power, and Structure Technology Advanced Studies CTE Work Experience - Agriculture Industry-Recognized Credential – Agricultural Welding, Power, and Structure Technology	Agricultural Welding, Power, and Structure Technology with Complementary Course Standards
Animal Systems	**Core Course Sequence** Principles of Agriculture, Food, and Natural Resources Animal Science **Complementary Course(s)** Animal Science Advanced Studies Agricultural Business Systems for Animal Systems Agricultural Leadership, Communication, and Policy for Animal Systems Environmental and Natural Resource Management for Animal Systems Food Science Technology for Animal Systems Veterinary Science CTE Work Experience - Agriculture Industry-Recognized Credential – Animal Systems	Animal Systems Program of Study with Complementary Course Standards
Plant Systems	**Core Course Sequence** Principles of Agriculture, Food, and Natural Resources Plant Science **Complementary Course(s)** Plant Science Advanced Studies Agricultural Business Systems for Plant Systems Agricultural Leadership, Communication, and Policy for Plant Systems Environmental and Natural Resource Management for Plant Systems Food Science Technology for Plant Systems Greenhouse and Landscape Management CTE Work Experience - Agriculture Industry-Recognized Credential – Plant Systems	Plant Systems Program of Study with Complementary Course Standards

* 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– see course descriptions for requirements and corequisites.

Course Descriptions
Agriculture

Agricultural Welding, Power, and Structure Technology I

Prerequisite: None

This course will introduce students to the foundational 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.

Agricultural Welding, Power, and Structure Technology II

Prerequisite: Agricultural Welding, Power, and Structure Technology I

This course is a continuation of Agricultural Welding, Power, and Structure Technology I and allows students to expand on skills and knowledge from Agricultural Welding, Power, and Structure 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. This course provides agriculture students basic instruction in advanced techniques and processes such as electrical controls and maintenance; basic construction and pipe fitting techniques; welding: Gas Metal Arc Welding (GMAW), Gas Tungsten Arc Welding (GTAW), and plasma cutting; agricultural 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.

Agricultural Welding, Power, and Structure Technology II LAB

Corequisite: Concurrent enrollment in Agricultural Welding, Power, and Structure Technology II

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.

Agricultural Welding, Power, and Structure Technology Advanced Studies

Prerequisite: Completion of Agricultural Welding, Power, and Structure Technology Program of Study

This course is offered to students who have completed all content standards in Agricultural Welding, Power, and Structure Technology program of study and desire 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.

Industry-Recognized Credential – Agricultural Welding, Power, and Structure Technology

Prerequisite: Completion of Agricultural Welding, Power, and Structure Technology Program of Study

This course is offered to students who have completed all content standards in the Agricultural Welding, Power, and Structure Technology program of study and desire to pursue an Industry-Recognized Credential that aligns with the standards and skills associated with the Agricultural Welding, Power, and Structure Technology Program of Study. This course is designed to expand the students' opportunities to pursue certification aligned with employment standards in the industry aligned with this program of study. The supervising teacher will provide instruction aligned with the certification requirements, monitor progress toward certification, and provide the students with appropriate testing or certification opportunities associated with the intended Industry-Recognized Credential that is the subject of the course. IRC's earned by students must be on the list of industry-recognized credentials identified by the Governor's Office of Workforce Innovation (OWINN). This course may be repeated for additional instruction and credit.

Principles of Agriculture, Food, and Natural Resources

Prerequisite: None

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 Agricultural Experience Programs.

Animal Science

Prerequisite: Principles of Agriculture, Food, and Natural Resources

This course is a continuation of Principles of Agriculture, Food, and Natural Resources. This course allows advanced students to expand on skills and knowledge from Principles of Agriculture, Food, and Natural Resources while exploring the livestock and companion animal industries. 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 Agricultural 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.

Animal Science Advanced Studies

Prerequisite: Completion of Animal Systems Program of Study

This course is offered to students who have completed all content standards in the Animal Systems program of study and desire 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.

Agricultural Business Systems for Animal Systems

Prerequisite: Completion of Animal Systems Program of Study

This course is offered to students who have completed all content standards in the Animal Systems program of study. 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.

Agricultural Leadership, Communication, and Policy for Animal Systems

Prerequisite: Completion of Animal Systems Program of Study

This course is offered to students who have completed all content standards in the Animal Systems program of study. 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.

Environmental and Natural Resource Management for Animal Systems

Prerequisite: Completion of Animal Systems Program of Study

This course is offered to students who have completed all content standards in the Animal Systems program of study. This course introduces advanced agriculture students to concepts of environmental natural resource science and management. This will include ecological concepts and scientific principles related to environmental science, soils, composting and recycling, rangeland management, fire ecology, GPS and GIS, fish and wildlife 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.

Food Science Technology for Animal Systems

Prerequisite: Completion of Animal Systems Program of Study

This course is offered to students who have completed all content standards in the Animal Systems program of study. This course allows advanced students to expand on skills and knowledge from Animal Systems program of study while exploring the livestock and 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.

Veterinary Science

Prerequisite: Completion of Animal Systems Program of Study

This course is offered to students who have completed all content standards in the Animal Systems program of study. 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.

Industry-Recognized Credential – Animal Systems

Prerequisite: Completion of Animal Systems Program of Study

This course is offered to students who have completed all content standards in the Animal Systems program of study and desire to pursue an Industry-Recognized Credential that aligns with the standards and skills associated with the Animal Systems Program of Study. This course is designed to expand the students' opportunities to pursue certification aligned with employment standards in the industry aligned with this program of study. The supervising teacher will provide instruction aligned with the certification requirements, monitor progress toward certification, and provide the students with appropriate testing or certification opportunities associated with the intended Industry-Recognized Credential that is the subject of the course. IRC's earned by students must be on the list of industry-recognized credentials identified by the Governor's Office of Workforce Innovation (OWINN). This course may be repeated for additional instruction and credit.

Plant Science

Prerequisite: Principles of Agriculture, Food, and Natural Resources

This course is a continuation of Principles of Agriculture, Food, and Natural Resources. 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. The appropriate use of technology and industry-standard equipment is an integral part of this course. An essential part of this course will be leadership activities and Supervised Agricultural Experience Programs.

Plant Science Advanced Studies

Prerequisite: Completion of Plant Systems Program of Study

This course is offered to students who have completed all content standards in the Plant Systems program of study and desire 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.

Agricultural Business Systems for Plant Systems

Prerequisite: Completion of Plant Systems Program of Study

This course is offered to students who have completed all content standards in the Plant Systems program of study. 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.

Agricultural Leadership, Communication, and Policy for Plant Systems

Prerequisite: Completion of Plant Systems Program of Study

This course is offered to students who have completed all content standards in the Plant Systems program of study. 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.

Environmental and Natural Resource Management for Plant Systems

Prerequisite: Completion of Plant Systems Program of Study

This course is offered to students who have completed all content standards in the Plant Systems program of study. This course introduces advanced agriculture students to concepts of environmental natural resource science and management. This will include ecological concepts and scientific principles related to environmental science, soils, composting and recycling, rangeland management, fire ecology, GPS and GIS, fish and wildlife 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.

Food Science Technology for Plant Systems

Prerequisite: Completion of Plant Systems Program of Study

This course is offered to students who have completed all content standards in the Plant Systems program of study. This course allows advanced students to expand on skills and knowledge from Plant Systems program of study while exploring the food industry. This course covers the basic anatomy and physiology of plant species, genetics, reproduction, propagation strategies, evaluation and selection of commodities, 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.

Greenhouse and Landscape Management

Prerequisite: Completion of Plant Systems Program of Study

This course is offered to students who have completed all content standards in the Plant Systems program of study. This course provides advanced agriculture students with a technical understanding and working knowledge of the greenhouse and landscape industries. Topics include safety, plant physiology and identification, growing media, plant nutrition, integrated pest management, propagation, growing greenhouse crops, analyzing the landscape site, designing the landscape, selecting plants for the design, hardscaping, turf installation and management, pruning and business concepts. Students will gain knowledge and skills related to the care and management of gardens, greenhouses, and landscape installations. 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.

Industry-Recognized Credential – Plant Systems

Prerequisite: Completion of Plant Systems Program of Study

This course is offered to students who have completed all content standards in the Plant Systems program of study and desire to pursue an Industry-Recognized Credential that aligns with the standards and skills associated with the Plant Systems Program of Study. This course is designed to expand the students' opportunities to pursue certification aligned with employment standards in the industry aligned with this program of study. The supervising teacher will provide instruction aligned with the certification requirements, monitor progress toward certification, and provide the students with appropriate testing or certification opportunities associated with the intended Industry-Recognized Credential that is the subject of the course. IRC's earned by students must be on the list of industry-recognized credentials identified by the Governor's Office of Workforce Innovation (OWINN). This course may be repeated for additional instruction and credit.

CTE Work Experience – Agriculture

Prerequisite: Completion of Level 2 course in the qualifying program of study

This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth CTE 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.

Course Data Information - Agriculture

Agricultural Welding, Power, and Structure Technology

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
R	Agricultural Welding, Power, and Structure Technology I	AGWPS I	01.0205	F	18	401	G	1.00	12	18401G1.0012
R	Agricultural Welding, Power, and Structure Technology II	AGWPS II	01.0205	F	18	401	G	1.00	22	18401G1.0022
C**	Agricultural Welding, Power, and Structure Technology II LAB	AGWPS II L	01.0205	F	18	401	E	1.00	22	18401E1.0022
C	Intermediate Agricultural Welding, Power, and Structure Technology	INT AGWPS	01.0205	F	18	401	E	1.00	11	18401E1.0011
C	Agricultural Welding, Power, and Structure Technology Advanced Studies	AGWPS AS	01.0205	F	18	405	E	1.00	11	18405E1.0011
C	Industry-Recognized Credential-Agricultural Welding, Power, and Structure Technology	IRC AGWPS	01.0205	F	18	999	E	1.00	11	18999E1.0011

Notes:

Agricultural Welding, Power and Structure Technology Advanced Studies matched with: SCED 18401 Agriculture Mechanics/Equipment/Structures

Agricultural Welding, Power and Structure Technology Advanced Studies matched with: SCED 18405 Particular Topics in Agricultural Mechanics and Construction

Industry-Recognized Credential-Agricultural Welding, Power and Structure Technology matched with: SCED 18999 Agriculture, Food, and Natural Resources—Other

**Lab courses are to be taught concurrently with the associated level course (i.e., level two course with the level two lab course)

Animal Systems

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
R	Principles of Agriculture, Food, and Natural Resources	AG SCIENCE	01.0000	N	18	003	G	1.00	12	18003G1.0012
R	Animal Science	ANIMAL SCI	01.0901	F	18	101	G	1.00	22	18101G1.0022
C	Animal Science Advanced Studies	ANIMAL SCI AS	01.0901	F	18	101	E	1.00	11	18101E1.0011
C	Agricultural Business Systems for Animal Systems	AG BUS AN	01.0102	F	18	201	E	1.00	11	18201E1.0011
C	Agricultural Leadership, Communication and Policy for Animal Systems	AG LCP AN	01.0899	N	18	203	E	1.00	11	18203E1.0011
C	Environmental and Natural Resources Management for Animal Systems	ENR MGMT AN	03.0101	N	18	504	E	1.00	11	18504E1.0011
C	Food Science Technology for Animal Systems	FOOD SCI TECH AN	01.1001	N	18	305	E	1.00	11	18305E1.0011
C	Veterinary Science for Animal Systems	VETERINARY SCI	01.8301	M	18	105	E	1.00	11	18105E1.0011
C	Industry-Recognized Credential-Animal Systems	IRC ANIMAL SYS	01.0901	F	18	999	E	1.00	11	18999E1.0011

Notes:

Principles of Agriculture, Food, and Natural Resources matched with:	SCED 18003 Agriculture and Natural Resources—Comprehensive
Animal Science matched with:	SCED 18101 Animal Production/Science
Agricultural Business Systems matched with:	SCED 18201 Agribusiness Management
Agricultural Leadership, Communication and Policy matched with:	SCED 18203 Agricultural Leadership
Environmental and Natural Resources Management matched with:	SCED 18504 Natural Resources Management
Food Science Technology matched with:	SCED 18305 Food Science Fundamentals
Veterinary Science matched with:	SCED 18105 Veterinary Science
Industry-Recognized Credential-Animal Systems matched with:	SCED 18999 Agriculture, Food, and Natural Resources—Other

Plant Systems

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
R	Principles of Agriculture, Food, and Natural Resources	AG SCIENCE	01.0000	N	18	003	G	1.00	12	18003G1.0012
R	Plant Science	PLANT SCI	01.1101	F	18	051	G	1.00	22	18051G1.0022
C	Plant Science Advanced Studies	PLANT SCI AS	01.1101	F	18	051	E	1.00	11	18051E1.0011
C	Agricultural Business Systems for Plant Systems	AG BUS PL	01.0102	F	18	201	E	1.00	11	18201E1.0011
C	Agricultural Leadership, Communication and Policy for Plant Systems	AG LCP PL	01.0899	N	18	203	E	1.00	11	18203E1.0011
C	Environmental and Natural Resources Management for Plant Systems	ENR MGMT PL	03.0101	N	18	504	E	1.00	11	18504E1.0011
C	Food Science Technology for Plant Systems	FOOD SCI TECH PL	01.1001	N	18	305	E	1.00	11	18305E1.0011
C	Greenhouse and Landscape Management	GHOUSE LSCAPE MGMT	01.0604	F	18	053	E	1.00	11	18053E1.0011
C	Industry-Recognized Credential-Plant Systems	IRC PLANT SYS	01.1101	F	18	999	E	1.00	11	18999E1.0011

Notes:

Principles of Agriculture, Food, and Natural Resources matched with: SCED 18003 Agriculture and Natural Resources—Comprehensive
Plant Science matched with: SCED 18051 Plant Systems/Science
Agricultural Business Systems matched with: SCED 18201 Agribusiness Management
Agricultural Leadership, Communication and Policy matched with: SCED 18203 Agricultural Leadership
Environmental and Natural Resources Management matched with: SCED 18504 Natural Resources Management
Food Science Technology matched with: SCED 18305 Food Science Fundamentals
Greenhouse and Landscape Management matched with: SCED 18053 Ornamental Horticulture
Industry-Recognized Credential-Plant Systems matched with: SCED 18999 Agriculture, Food, and Natural Resources—Other

CTE Work Experience – Agriculture

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
C	CTE Work Experience – Agriculture	WORK EXPER AFNR	**99.0022**	N	18	998	G	1.00	11	18998G1.0011

Notes:

Work Experience – Agriculture matched with: SCED 18998 Agriculture, Food, and Natural Resources—Workplace Experience

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Program Alignment

Arts, Entertainment, and Design

The Arts, Entertainment, and Design Career Cluster combines creative roles in visual and performing arts, film, journalism, fashion, interior design, and creative technologies. This Cluster focuses on creating, producing, and sharing artistic and design work across multiple platforms, aiming to entertain, inform, beautify, and inspire.

- Fashion, Textiles, and Design
- Graphic Design
- Multimedia Communications
- Radio Production
- Theatre Technology
- Video Production

Program Descriptions
Arts, Entertainment, and Design

Fashion, Textiles, and Design (formerly in Arts, A/V Technology, and Communications cluster)

The Fashion, Textiles, and Design program provides students with an introduction to the fundamentals of fashion, design, and construction. Areas of study include individual image, psychological and social aspects of clothing, wardrobe planning, consumer decision-making, pattern and textile selection, construction techniques, handling and care techniques, the use and care of sewing equipment, clothing repair, and fashion-related occupations.

Graphic Design (formerly in Arts, A/V Technology, and Communications cluster)

The Graphic Design program provides students with an introduction to the principles of creating graphic works. Areas of study include elements and principles of design, production aspects, legal and ethical issues, and portfolio development.

Multimedia Communications (formerly in Arts, A/V Technology, and Communications cluster)

This program introduces students to various media technologies used in business of digital communications. Areas of study include elements and principles of design, media platforms, legal and ethical issues in project development, production tools and techniques, marketing concepts and social media, professional communications, and content creation. Practices incorporate an appreciation of alternative and culturally diverse perspectives essential in business communication.

Radio Production (formerly in Arts, A/V Technology, and Communications cluster)

The Radio Production program provides students with the concepts and skills needed for radio broadcast production. Students learn on-air production techniques, news writing, sound gathering, and production operations through the platform of an internet radio station. Marketing and station promotion are also learned.

Theatre Technology (formerly in Arts, A/V Technology, and Communications cluster)

The Theatre Technology program instructs students in the craft and technical skills of theatrical production. Instruction includes theatre safety, lighting, scenic design and construction, and stage management.

Video Production (formerly in Arts, A/V Technology, and Communications cluster)

The Video Production program provides students instruction in the various video production processes and techniques. Areas of study include camera operation, on-air program production, creative works, and video editing. Students will produce original videos and live broadcast productions. Emphasis is placed on writing, pre-/post-production, editing techniques, and studio and engineering procedures.

Program Course Sequences
Arts, Entertainment, and Design

Program Name	Course Sequence	State Skill Standards*
Fashion, Textiles, and Design	**Core Course Sequence** Fashion, Textiles, and Design I Fashion, Textiles, and Design II **Concurrent Course(s)** Fashion, Textiles, and Design II Lab ** **Complementary Course(s)** Fashion, Textiles, and Design Advanced Studies Fashion Merchandising CTE Work Experience - Arts, Entertainment, and Design Industry-Recognized Credential – Fashion, Textiles, and Design	Fashion, Textiles, and Design Program of Study with Complementary Course Standards
Graphic Design	**Core Course Sequence** Graphic Design I Graphic Design II **Concurrent Course(s)** Graphic Design II LAB ** **Complementary Course(s)** Graphic Design Advanced Studies 2D Animation for Graphic Design CTE Work Experience - Arts, Entertainment, and Design Industry-Recognized Credential – Graphic Design	Graphic Design Program of Study with Complementary Course Standards
Multimedia Communications	**Core Course Sequence** Multimedia Communications I Multimedia Communications II **Concurrent Course(s)** Multimedia Communications II LAB ** **Complementary Course(s)** Multimedia Communications Advanced Studies 2D Animation for Multimedia Communications CTE Work Experience - Arts, Entertainment, and Design Industry-Recognized Credential- Multimedia Communications	Multimedia Communications Program of Study with Complementary Course Standards
Radio Production	**Core Course Sequence** Radio Production I Radio Production II **Concurrent Course(s)** Radio Production II LAB ** **Complementary Course(s)** Radio Production Advanced Studies Podcasting for Radio Production CTE Work Experience – Arts, Entertainment, and Design Industry-Recognized Credential – Radio Production	Radio Production Program of Study with Complementary Course Standards
Theatre Technology	**Core Course Sequence** Theatre Technology I Theatre Technology II **Complementary Course(s)** Theatre Technology Advanced Studies Set Design CTE Work Experience – Arts, Entertainment, and Design Industry-Recognized Credential –Theatre Technology	Theatre Technology Program of Study with Complementary Course Standards

* 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 course – see individual course descriptions for requirements and corequisites.

Program Course Sequences
Arts, Entertainment, and Design (continued)

Program Name	Course Sequence	State Skill Standards*
Video Production	**Core Course Sequence** Video Production I Video Production II **Concurrent Course(s)** Video Production II LAB ** **Complementary Course(s)** Video Production Advanced Studies Filmmaking Podcasting for Video Production CTE Work Experience – Arts, Entertainment, and Design Industry-Recognized Credential – Video Production	Video Production Program of Study with Complementary Course Standards

* 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 course – see individual course descriptions for requirements and corequisites.

Course Descriptions
Arts, Entertainment, and Design

Fashion, Textiles, and Design I

Prerequisite: None

This course is designed to provide students with an understanding of the psychological and social aspects of clothing, and fundamental concepts of fashion, fashion design, and construction. Areas of emphasis include fashion, textiles, clothing construction, merchandising, the use and care of sewing equipment, and exploration of careers in the fashion industry.

Fashion, Textiles, and Design II

Prerequisite: Fashion, Textiles, and Design I

This course is a continuation of Fashion, Textiles, and Design I. This course allows advanced fashion students to further their knowledge and skills. This course will cover advanced construction techniques including illustration, basic graphic design, use of specialty fabrics, creative applications, altering and repairing, and the presentation of finished products in various modalities. 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.

Fashion, Textiles, and Design II LAB

Corequisite: Concurrent enrollment in Fashion, Textiles and Design II

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.

Fashion, Textiles, and Design Advanced Studies

Prerequisite: Completion of Fashion, Textiles, and Design Program of Study

This course is offered to students who have completed all content standards in the Fashion, Textiles, and Design program of study and desire to pursue advanced study through investigation and in-depth research. Areas of study include marketing strategies and methods of promoting textiles and apparel products, skills and knowledge required in the retail industry, an understanding of sourcing and the merchandising process, research methods including forecasting techniques, and general operational procedures required for business profitability and career success.

Fashion Merchandising

Prerequisite: Completion of Fashion, Textiles, and Design Program of Study

This course is offered to students who have completed all content standards in the Fashion, Textiles, and Design program of study. The Fashion Merchandising course provides students with an introduction to the fundamentals of merchandising of fashion, textile, and apparel products. Areas of study include forecasting trends, buying, promoting, operating a retail environment, customer service, and the use of technology.

Industry-Recognized Credential – Fashion, Textiles, and Design

Prerequisite: Completion of Fashion, Textiles, and Design Program of Study

This course is offered to students who have completed all content standards in the Fashion, Textiles, and Design program of study and desire to pursue an Industry-Recognized Credential that aligns with the standards and skills associated with the Fashion, Textiles, and Design Program of Study. This course is designed to expand the students' opportunities to pursue certification aligned with employment standards in the industry aligned with this program of study. The supervising teacher will provide instruction aligned with the certification requirements, monitor progress toward certification, and provide the students with appropriate testing or certification opportunities associated with the intended Industry-Recognized Credential that is the subject of the course. IRC's earned by students must be on the list of industry-recognized credentials identified by the Governor's Office of Workforce Innovation (OWINN). This course may be repeated for additional instruction and credit.

Graphic Design I

Prerequisite: None

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.

Graphic Design II

Prerequisite: Graphic Design I

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.

Graphic Design II LAB

Corequisite: Concurrent enrollment in Graphic Design II

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.

Graphic Design Advanced Studies

Prerequisite: Completion of Graphic Design Program of Study

This course is offered to students who have completed all content standards in the Graphic Design program of study and desire 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.

2D Animation for Graphic Design

Prerequisite: Completion of Graphic Design Program of Study

This course is offered to students who have completed all content standards in the Graphic Design program of study. This course expands on the students' knowledge of graphic design with an introduction to 2D animation from preproduction, through production, and postproduction. The design process will be applied to create 2D animation.

Industry-Recognized Credential – Graphic Design

Prerequisite: Completion of Graphic Design Program of Study

This course is offered to students who have completed all content standards in the Graphic Design program of study and desire to pursue an Industry-Recognized Credential that aligns with the standards and skills associated with the Graphic Design Program of Study. This course is designed to expand the students' opportunities to pursue certification aligned with employment standards in the industry aligned with this program of study. The supervising teacher will provide instruction aligned with the certification requirements, monitor progress toward certification, and provide the students with appropriate testing or certification opportunities associated with the intended Industry-Recognized Credential that is the subject of the course. IRC's earned by students must be on the list of industry-recognized credentials identified by the Governor's Office of Workforce Innovation (OWINN). This course may be repeated for additional instruction and credit.

Multimedia Communications I

Prerequisite: None

This course introduces students to various media technologies used in business for digital communications. Areas of study will include website development, user interface, video, photo, written content, social media marketing, and front-end design. Practices incorporate an appreciation of alternative and culturally diverse perspectives essential in business communication. The appropriate use of technology and industry-standard tools and techniques is an integral part of this course.

Multimedia Communications II

Prerequisite: Multimedia Communications I

This course is a continuation of Multimedia Communications I and introduces students to various advanced content and media creation techniques used in business for digital communications. Areas of study will include website development, user interface, video, photo, written content, social media marketing, and front-end design. Practices incorporate an appreciation of alternative and culturally diverse perspectives essential in business communication. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.

Multimedia Communications II LAB

Corequisite: Concurrent enrollment in Multimedia Communications II

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.

Multimedia Communications Advanced Studies

Prerequisite: Completion of Multimedia Communications Program of Study

This course is offered to students who have completed all content standards in the Multimedia Communications program of study and desire to pursue advanced study through portfolio development and in-depth skill application. 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.

2D Animation for Multimedia Communication

Prerequisite: Completion of Multimedia Communications Program of Study

This course is offered to students who have completed all content standards in the Multimedia Communications program of study. This course expands on the students' knowledge of graphic design with an introduction to 2D animation from preproduction, through production, and postproduction. The design process will be applied to create 2D animation.

Industry-Recognized Credential – Multimedia Communications

Prerequisite: Completion of Multimedia Communications Program of Study

This course is offered to students who have completed all content standards in the Multimedia Communications program of study and desire to pursue an Industry-Recognized Credential that aligns with the standards and skills associated with the Multimedia Communications Program of Study. This course is designed to expand the students' opportunities to pursue certification aligned with employment standards in the industry aligned with this program of study. The supervising teacher will provide instruction aligned with the certification requirements, monitor progress toward certification, and provide the students with appropriate testing or certification opportunities associated with the intended Industry-Recognized Credential that is the subject of the course. IRC's earned by students must be on the list of industry-recognized credentials identified by the Governor's Office of Workforce Innovation (OWINN). This course may be repeated for additional instruction and credit.

Radio Production I

Prerequisite: None

This course is designed to introduce students to the basic elements and skills needed for radio broadcast production. Students will learn the basics of broadcast news writing, how to gather and incorporate sound, and basic laws and ethical issues of the industry. Equipment instruction includes operating radio amplifiers, mixers, audio boards, microphones, music CDs, and MP3s. Internet and on-air program production are emphasized. Students will become familiar with radio production techniques used within the broadcast industry.

Radio Production II

Prerequisite: Radio Production I

This course is a continuation of Radio Production I. This course provides advanced radio production students with instruction in advanced techniques and processes in radio broadcast and production. Emphasis is placed on the practical application of skills to produce live and prerecorded broadcasts. Pre/post-production, editing techniques, studio and engineering procedures, and production skills will be utilized and honed. Station marketing, branding, and advertising are also explored. 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.

Radio Production II LAB

Corequisite: Concurrent enrollment in Radio Production II

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.

Radio Production Advanced Studies

Prerequisite: Completion of Radio Production Program of Study

This course is offered to students who have completed all content standards in the Radio Production program of study and desire 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.

Podcasting for Radio Production

Prerequisite: Completion of Radio Production Program of Study

This course is offered to students who have completed all content standards in the Radio Production program of study. This course is an in-depth study on podcasting. This course provides advanced video production and advanced radio production students with instruction in podcast techniques and processes. Emphasis is placed on the advanced principles in podcast which include choosing the correct equipment, completing pre-production, practicing promotion, taking part in production, and submitting their post-production product. Upon successful completion of this course, students will have acquired entry-level skills for creating and posting their own podcasts.

Industry-Recognized Credential – Radio Production

Prerequisite: Completion of Radio Production Program of Study

This course is offered to students who have completed all content standards in the Radio Production program of study and desire to pursue an Industry-Recognized Credential that aligns with the standards and skills associated with the Radio Production Program of Study. This course is designed to expand the students' opportunities to pursue certification aligned with employment standards in the industry aligned with this program of study. The supervising teacher will provide instruction aligned with the certification requirements, monitor progress toward certification, and provide the students with appropriate testing or certification opportunities associated with the intended Industry-Recognized Credential that is the subject of the course. IRC's earned by students must be on the list of industry-recognized credentials identified by the Governor's Office of Workforce Innovation (OWINN). This course may be repeated for additional instruction and credit.

Theatre Technology I

Prerequisite: None

This course will introduce the student to the craft and technical skills of theatrical production. Students will be instructed in an overview of the theatre, design process, theatre safety, set construction, stage lighting, sound, and various roles in theatre. The appropriate use of technology and industry-standard tools and techniques is an integral part of this course.

Theatre Technology II

Prerequisite: Theatre Technology I

This course is a continuation of Theatre Technology I. This course provides intermediate theatre technology students with instruction in advanced techniques and processes. Areas of study include lighting, sound, and set construction, as well as stage management. The appropriate use of technology and industry-standard equipment is an integral part of this course.

Theatre Technology Advanced Studies

Prerequisite: Completion of Theatre Technology Program of Study

This course is offered to students who have completed all content standards in the Theatre Technology program of study and desire 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.

Set Design

Prerequisite: Completion of Theatre Technology Program of Study

This course is offered to students who have completed all content standards in the Theatre Technology program of study. This course provides students with in-depth knowledge in the Set Design process. Areas of study include investigating theatre options, demonstrate theatre safety, demonstrate set construction, understand lighting design, demonstrate audio engineering, practice stage management, apply scenic designs, understand costuming, understand house management and related business functions of the theatre, and research careers in theatre.

Industry-Recognized Credential – Theatre Technology

Prerequisite: Completion of Theatre Technology Program of Study

This course is offered to students who have completed all content standards in the Theatre Technology program of study and desire to pursue an Industry-Recognized Credential that aligns with the standards and skills associated with the Theatre Technology Program of Study. This course is designed to expand the students' opportunities to pursue certification aligned with employment standards in the industry aligned with this program of study. The supervising teacher will provide instruction aligned with the certification requirements, monitor progress toward certification, and provide the students with appropriate testing or certification opportunities associated with the intended Industry-Recognized Credential that is the subject of the course. IRC's earned by students must be on the list of industry-recognized credentials identified by the Governor's Office of Workforce Innovation (OWINN). This course may be repeated for additional instruction and credit.

Video Production I

Prerequisite: None

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.

Video Production II

Prerequisite: Video Production I

This course is a continuation of Video Production I. This course provides advanced video production students with instruction in advanced techniques and processes. Emphasis is placed on the advanced principles in pre/postproduction, 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 in this field.

Video Production II LAB

Corequisite: Concurrent enrollment in Video Production II

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.

Video Production Advanced Studies

Prerequisite: Completion of Video Production Program of Study

This course is offered to students who have completed all content standards in the Video Production program of study and desire 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.

Filmmaking

Prerequisite: Completion of Video Production Program of Study

This course is offered to students who have completed all content standards in the Video Production program of study. This course is an in-depth study on filmmaking. This course provides advanced video production students with instruction in filmmaking techniques and processes. Emphasis is placed on the advanced principles in filmmaking which include script writing, taking part in the production of a short film, and completing the postproduction of their short film. Upon successful completion of this course, students will have acquired entry-level skills for creating and posting their own short films.

Podcasting for Video Production

Prerequisite: Completion of Video Production Program of Study

This course is offered to students who have completed all content standards in the Video Production program of study. This course is an in-depth study on podcasting. This course provides advanced video production and advanced radio production students with instruction in podcast techniques and processes. Emphasis is placed on the advanced principles in podcast which include choosing the correct equipment, completing pre-production, practicing promotion, taking part in production, and submitting their post-production product. Upon successful completion of this course, students will have acquired entry-level skills for creating and posting their own podcasts.

Industry-Recognized Credential – Video Production

Prerequisite: Completion of Video Production Program of Study

This course is offered to students who have completed all content standards in the Video Production program of study and desire to pursue an Industry-Recognized Credential that aligns with the standards and skills associated with the Video Production Program of Study. This course is designed to expand the students' opportunities to pursue certification aligned with employment standards in the industry aligned with this program of study. The supervising teacher will provide instruction aligned with the certification requirements, monitor progress toward certification, and provide the students with appropriate testing or certification opportunities associated with the intended Industry-Recognized Credential that is the subject of the course. IRC's earned by students must be on the list of industry-recognized credentials identified by the Governor's Office of Workforce Innovation (OWINN). This course may be repeated for additional instruction and credit.

CTE Work Experience – Arts, Entertainment, and Design

Prerequisite: Completion of Level 2 course in the qualifying program of study

This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth CTE 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.

Course Data Information - Arts, Entertainment, and Design

Fashion, Textiles, and Design

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
R	Fashion, Textiles, and Design I	FASHION I	50.0407	N	05	190	G	1.00	12	05190G1.0012
R	Fashion, Textiles, and Design II	FASHION II	50.0407	N	05	190	G	1.00	22	05190G1.0022
C**	Fashion, Textiles, and Design II LAB	FASHION II L	50.0407	N	05	190	E	1.00	22	05190E1.0022
C	Fashion, Textiles, and Design Advanced Studies	FASHION AS	50.0407	N	05	190	E	1.00	11	05190E1.0011
C	Fashion Merchandising	FMERCH	52.1902	N	12	153	E	1.00	11	12153E1.0011
C	Industry-Recognized Credential-Fashion, Textiles, and Design	IRC FASHION	50.0407	N	10	249	E	1.00	11	10249E1.0011

Notes:

Fashion, Textiles, and Design matched with: SCED 05190 Fashion Design

Fashion Merchandising matched with: SCED 12153 Marketing—Fashion

Industry-Recognized Credential-Fashion, Textiles, and Design matched with: SCED 10249 Media Technology—Other

**Lab courses are to be taught concurrently with the associated level course (i.e., level two course with the level two lab course)

Graphic Design

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
R	Graphic Design I	GRAPHIC DESG I	50.0409	N	11	153	G	1.00	12	11153G1.0012
R	Graphic Design II	GRAPHIC DESG II	50.0409	N	11	153	G	1.00	22	11153G1.0022
C**	Graphic Design II LAB	GRAPHIC DESG II L	50.0409	N	11	153	E	1.00	22	11153E1.0022
C	Graphic Design Advanced Studies	GRAPHIC DESG AS	50.0409	N	11	153	E	1.00	11	11153E1.0011
C	2D Animation for Graphic Design	2D ANIMATE GD	10.0304	N	10	204	E	1.00	11	10204E1.0011
C	Industry-Recognized Credential-Graphic Design	IRC GRAPHIC DESG	50.0409	N	10	249	E	1.00	11	10249E1.0011

Notes:

Graphic Design matched with: SCED 11153 Digital Media Design and Production
2D Animation for Graphic Design matched with: SCED 10204 Particular Topics in Media Technology
Industry-Recognized Credential-Graphic Design matched with: SCED 10249 Media Technology—Other

**Lab courses are to be taught concurrently with the associated level course (i.e., level two course with the level two lab course)

Multimedia Communications

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
R	Multimedia Communications I	MULTIMEDIA COM I	09.0702	N	10	203	G	1.00	12	10203G1.0012
R	Multimedia Communications II	MULTIMEDIA COM II	09.0702	N	10	203	G	1.00	22	10203G1.0022
C**	Multimedia Communications II LAB	MULTIMEDIA COM II L	09.0702	N	10	203	E	1.00	22	10203E1.0022
C	Multimedia Communications Advanced Studies	MULTIMEDIA COM AS	09.0702	N	10	203	E	1.00	11	10203E1.0011
C	2D Animation for Multimedia Communications	2D ANIMATE MMC	10.0304	N	10	204	E	1.00	11	10204E1.0011
C	Industry-Recognized Credential-Multimedia Communications	IRC MULTIMEDIA COM	09.0702	N	10	249	E	1.00	11	10249E1.0011

Notes:

Multimedia Communications matched with: SCED 10203 Interactive Media
2D Animation for Multimedia Communications matched with: SCED 10204 Particular Topics in Media Technology
Industry-Recognized Credential- Multimedia Communications matched with: SCED 10249 Media Technology—Other

**Lab courses are to be taught concurrently with the associated level course (i.e., level two course with the level two lab course)

Radio Production

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
R	Radio Production I	RADIO PROD I	10.0202	F	11	107	G	1.00	12	11107G1.0012
R	Radio Production II	RADIO PROD II	10.0202	F	11	107	G	1.00	22	11107G1.0022
C**	Radio Production II LAB	RADIO PROD II L	10.0202	F	11	107	E	1.00	22	11107E1.0022
C	Radio Production Advanced Studies	RADIO PROD AS	10.0202	F	11	107	E	1.00	11	11107E1.0011
C	Podcasting for Radio Production	PODCAST RP	09.0702	N	11	105	E	1.00	11	11105E1.0011
C	Industry-Recognized Credential-Radio Production	IRC RADIO PROD	10.0202	F	10	249	E	1.00	11	10249E1.0011

Notes:

Radio Production matched with: SCED 11107 Radio Production
Podcasting for Radio Production matched with: SCED 11105 Particular topics in journalism and broadcasting
Industry-Recognized Credential-Radio Production matched with: SCED 10249 Media Technology—Other

**Lab courses are to be taught concurrently with the associated level course (i.e., level two course with the level two lab course)

Theatre Technology

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
R	Theatre Technology I	THEATRE TECH I	50.0502	N	05	056	G	1.00	12	05056G1.0012
R	Theatre Technology II	THEATRE TECH II	50.0502	N	05	056	G	1.00	22	05056G1.0022
C	Theatre Technology Advanced Studies	THEATRE TECH AS	50.0502	N	05	056	E	1.00	11	05056E1.0011
C	Set Design	SET DESIGN	50.0502	N	05	056	E	1.00	11	05056E1.0011
C	Industry-Recognized Credential-Theatre Technology	IRC THEATRE TECH	50.0502	N	10	249	E	1.00	11	10249E1.0011

Notes:

Theatre Technology matched with: SCED 05056 Theater—Stagecraft
Set Design matched with: SCED 05056 Theater—Stagecraft
Industry-Recognized Credential-Theatre Technology matched with: SCED 10249 Media Technology—Other

Nevada Career and Technical Education Course Catalog 2026-27

Course Data Information - Arts, Entertainment, and Design (continued)

Video Production

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
R	Video Production I	VIDEO PROD I	50.0602	F	11	051	G	1.00	12	11051G1.0012
R	Video Production II	VIDEO PROD II	50.0602	F	11	051	G	1.00	22	11051G1.0022
C**	Video Production II LAB	VIDEO PROD II L	50.0602	F	11	051	E	1.00	22	11051E1.0022
C	Video Production Advanced Studies	VIDEO PROD AS	50.0602	F	11	051	E	1.00	11	11051E1.0011
C	Filmmaking	FILM	50.0602	F	11	056	E	1.00	11	11056E1.0011
C	Podcasting for Video Production	PODCAST VP	09.0702	N	11	105	E	1.00	11	11105E1.0011
C	Industry-Recognized Credential-Video Production	IRC VIDEO PROD	50.0602	F	10	249	E	1.00	11	10249E1.0011

Notes:

Video Production matched with: SCED 11051 Audio/Visual Production

Filmmaking SCED 11056 Particular topics in Audio/Video Technology and Film

Podcasting for Video Production matched with: SCED 11105 Particular topics in Journalism and Broadcasting

Industry-Recognized Credential-Video Production matched with: SCED 10249 Media Technology—Other

**Lab courses are to be taught concurrently with the associated level course (i.e., level two course with the level two lab course)

CTE Work Experience – Arts Entertainment and Design

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
C	CTE Work Experience – Arts Entertainment and Design	WORK EXPER TECH	**99.0023**	N	10	248	G	1.00	11	10248G1.0011

Notes:

Work Experience – Arts Entertainment and Design matched with: SCED 10248 Media Technology—Workplace Experience

Program Alignment for
Construction

The Construction Career Cluster focuses on professions involved in designing, planning, managing, and executing projects in the built environment. It emphasizes sustainable building practices to ensure that structures are both environmentally responsible and resilient. Careers in this Cluster are pivotal in creating durable infrastructure that meets present needs without compromising future generations' ability to meet their own, covering a range of roles from architects and engineers to construction managers and skilled tradespeople.

- Building Trades in Construction Technology
- Design Drafting
- Electronic Technology
- Heating, Ventilation, Air Conditioning, and Refrigeration (HVACR)
- Metalworking
- Welding Technology

Program Descriptions
Construction

Building Trades in Construction Technology (formerly in Architecture and Construction cluster)

The Building Trades in Construction Technology program provides students with the opportunity to develop technical skills in the building trades within the construction industry. Students will develop skills in the areas of construction including safety, proper use of hand and power tools, blueprint reading, framing, floor systems, finish carpentry, exterior finish applications, fundamental design techniques, identifying material properties and hardware, manufacturing processes, and applying basic principles of plumbing and electrical.

Design Drafting (formerly in Architecture and Construction cluster)

The Design Drafting program provides students with the principles of technical drafting and design concepts. Areas of study include sketching, dimensioning and annotation, construction and engineering documentation, 3D modeling, problem solving, critiquing, and team building.

Electronic Technology (formerly in Manufacturing cluster)

The Electronic Technology program provides students the opportunity to develop technical skills that are used throughout the electronic industry. Areas of study include safety, tools, direct current (DC), alternating current (AC), schematics, soldering, measuring electricity, Ohm's/Watt's/Kirchhoff's Laws, electronic circuits, and digital theory.

Heating, Ventilation, Air Conditioning, and Refrigeration (HVACR) (formerly in Architecture and Construction cluster)

The heating, ventilation, air conditioning, and refrigeration program provides students with the opportunity to develop technical skills that are used in the HVACR industry. Areas include an introduction to HVACR, trade mathematics, thermodynamics, components of the refrigeration cycle, basic electricity, introduction to heating and combustion, piping principles, soldering, and brazing, compressors, refrigerants, and metering devices.

Metalworking (formerly in Manufacturing cluster)

The Metalworking program provides students with instruction in the various metalworking processes. Areas of study include safety procedures, print reading, measurement, properties of metals, machine operation, metal-fabricating methods, industrial applications, and problem-solving. Students will also be introduced to the principles of metallurgy, metal lathe operation, forging methods, casting process, welding, and heat-treating procedures.

Welding Technology (formerly in Manufacturing cluster)

The Welding Technology program provides students with instruction in the industry standard welding practices. Areas of study include print reading, measurement, properties of metals, shielded metal arc welding (SMAW), gas metal arc welding (GMAW), flux cored arc welding (FCAW), gas tungsten arc welding (GTAW), and thermal cutting.

Program Course Sequences
Construction

Program Name	Course Sequence	State Skill Standards*
Building Trades in Construction Technology	**Core Course Sequence** Building Trades in Construction Technology I Building Trades in Construction Technology II **Concurrent Course(s)** Building Trades in Construction Technology II LAB ** **Complementary Course(s)** Building Trades in Construction Technology Advanced Studies Construction Technology Furniture and Cabinetmaking CTE Work Experience - Construction Industry-Recognized Credential – Building Trades in Construction Technology	Building Trades in Construction Technology Program of Study with Complementary Course Standards
Design Drafting	**Core Course Sequence** Design Drafting I Design Drafting II **Concurrent Course(s)** Design Drafting II LAB ** **Complementary Course(s)** Design Drafting Advanced Studies Architecture Design CTE Work Experience - Construction Industry-Recognized Credential – Design Drafting	Design Drafting Program of Study with Complementary Courses
Electronic Technology	**Core Course Sequence** Electronic Technology I Electronic Technology II **Concurrent Course(s)** Electronic Technology II LAB ** **Complementary Course(s)** Electronic Technology Advanced Studies CTE Work Experience - Construction Industry-Recognized Credential- Electronic Technology	Electronic Technology Standards
Heating, Ventilation, Air Conditioning, and Refrigeration (HVACR)	**Core Course Sequence** Heating, Ventilation, Air Conditioning, and Refrigeration I Heating, Ventilation, Air Conditioning, and Refrigeration II **Concurrent Course(s)** Heating, Ventilation, Air Conditioning, and Refrigeration II Lab ** **Complementary Course(s)** Intermediate Heating, Ventilation, Air Conditioning, and Refrigeration Heating, Ventilation, Air Conditioning, and Refrigeration Advanced Studies CTE Work Experience - Construction Industry-Recognized Credential – Heating, Ventilation, Air Conditioning, and Refrigeration	Heating, Ventilation, Air Conditioning, and Refrigeration (HVACR) Program of Study with Complementary Course Standards

* 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 course – see individual course descriptions for requirements and corequisites.

Program Course Sequences
Construction (continued)

Program Name	Course Sequence	State Skill Standards*
Metalworking	**Core Course Sequence** Metalworking I Metalworking II **Concurrent Course(s)** Metalworking II LAB ** **Complementary Course(s)** Metalworking Advanced Studies CTE Work Experience - Construction Industry-Recognized Credential – Metalworking	Metalworking Standards
Welding Technology	**Core Course Sequence** Welding Technology I Welding Technology II **Concurrent Course(s)** Welding Technology II LAB ** **Complementary Course(s)** Welding Technology Advanced Studies Welding Fabrication CTE Work Experience - Construction Industry-Recognized Credential – Welding Technology	Welding Technology Program of Study with Complementary Course Standards

* 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 course – see individual course descriptions for requirements and corequisites.

Course Descriptions
Construction

Building Trades in Construction Technology I

Prerequisite: None

This course will introduce students to the construction industry. Through a hands-on approach, each student will develop basic understanding in the areas of construction: safety, blueprint reading, finish carpentry, framing, fundamental design techniques, identifying material properties and hardware, and applying basic principles of plumbing, electrical and manufacturing processes. Practical application of safe work habits and the correct use of tools and equipment will be emphasized throughout this course. The appropriate use of technology and industry-standard equipment is an integral part of this course.

Building Trades in Construction Technology II

Prerequisite: Building Trades in Construction Technology I

This course is a continuation of Building Trades in Construction Technology I. This course provides intermediate students with additional knowledge and skills in the use of power tools fundamental design techniques, manufacturing processes, framing systems and exterior finish applications, The appropriate use of technology and industry-standard equipment is an integral part of this course.

Building Trades in Construction Technology II LAB

Corequisite: Concurrent enrollment in Building Trades in Construction Technology II

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.

Building Trades in Construction Technology Advanced Studies

Prerequisite: Completion of Building Trades in Construction Technology Program of Study

This course is offered to students who have completed all content standards in Building Trades in Construction Technology program of study and desire 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.

Construction Technology

Prerequisite: Completion of Building Trades in Construction Technology Program of Study

This course is offered to students who have completed all content standards in the Building Trades in Construction Technology program of study. This course provides students with knowledge and skills in plumbing, stair layout, HVAC, and exterior 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.

Furniture and Cabinetmaking

Prerequisite: Completion of Building Trades in Construction Technology Program of Study

This course is offered to students who have completed all content standards in the Building Trades in Construction Technology program of study. This course provides 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 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. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.

Industry-Recognized Credential – Building Trades in Construction Technology

Prerequisite: Completion of Building Trades in Construction Technology Program of Study

This course is offered to students who have completed all content standards the Building Trades in Construction Technology program of study and desire to pursue an Industry-Recognized Credential that aligns with the standards and skills associated with the Building Trades in Construction Technology Program of Study. This course is designed to expand the students' opportunities to pursue certification aligned with employment standards in the industry aligned with this program of study. The supervising teacher will provide instruction aligned with the certification requirements, monitor progress toward certification, and provide the students with appropriate testing or certification opportunities associated with the intended Industry-Recognized Credential that is the subject of the course. IRC's earned by students must be on the list of industry-recognized credentials identified by the Governor's Office of Workforce Innovation (OWINN). This course may be repeated for additional instruction and credit.

Design Drafting I

Prerequisite: None

This course introduces the student to the fundamentals of sketching and computer-aided drafting and design (CADD). This course provides students with the knowledge and practice in sketching techniques, including CADD, required to produce and analyze multi-view drawings, pictorial drawings, and dimensioning. Various career opportunities and areas for postsecondary study will be explored.

Design Drafting II

Prerequisite: Design Drafting I

This course is a continuation of Design Drafting I. This course provides CADD students with techniques and processes related to the various drafting and design industries. Areas of study include the development of advanced CADD and sketching skills, plotting, scaling, three dimensional models, problem solving, critiquing, and team building. The appropriate use of technology and industry-standard equipment is an integral part of this course.

Design Drafting II LAB

Corequisite: Concurrent enrollment in Design Drafting II

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.

Design Drafting Advanced Studies

Prerequisite: Completion of Design Drafting Program of Study

This course is offered to students who have completed all content standards in the Design Drafting program of study and desire 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.

Architecture Design

Prerequisite: Completion of Design Drafting Program of Study

This course is offered to students who have completed all content standards in the Design Drafting program of study. This course provides students with instruction in advanced techniques and processes. Students will apply the skills learned in Design Drafting I and II to complete architectural design tasks and professional portfolios. Areas of emphasis will include building codes, building materials, green building techniques, and professional presentation skills. Students will complete project-based activities to compare residential and commercial architectural methodologies. 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.

Industry-Recognized Credential – Design Drafting

Prerequisite: Completion of Design Drafting Program of Study

This course is offered to students who have completed all content standards in the Design Drafting program of study and desire to pursue an Industry-Recognized Credential that aligns with the standards and skills associated with the Design Drafting Program of Study. This course is designed to expand the students' opportunities to pursue certification aligned with employment standards in the industry aligned with this program of study. The supervising teacher will provide instruction aligned with the certification requirements, monitor progress toward certification, and provide the students with appropriate testing or certification opportunities associated with the intended Industry-Recognized Credential that is the subject of the course. IRC's earned by students must be on the list of industry-recognized credentials identified by the Governor's Office of Workforce Innovation (OWINN). This course may be repeated for additional instruction and credit.

Electronic Technology I

Prerequisite: None

This course introduces the student to electronic practices and fundamentals, roles of electronics in industry, and career development. Topics include safety, tools, fundamental electronic theory, identification of components, analyzing quantities of components, basic direct current (DC), schematics, soldering, measuring electricity, Ohm's/Watt's/Kirchhoff's Laws, and electronic circuits. The appropriate use of technology and industry-standard equipment is an integral part of this course.

Electronic Technology II

Prerequisite: Electronic Technology I

This course is a continuation of Electronic Technology I. This course introduces students to intermediate practices, principles, special equipment, and materials. Students will develop their knowledge and skills learned in Electronic Technology I. Topics include safety, voltage, current and resistance, parallel circuit configurations, series-parallel circuit configurations, alternating current (AC) circuits, fabrication techniques, interpreting schematics, troubleshooting techniques, analyzing digital design and circuitry, and such skills necessary to obtain meaningful employment in the electronics industry or advancement to postsecondary. The appropriate use of technology and industry-standard equipment is an integral part of this course.

Electronic Technology II LAB

Corequisite: Concurrent enrollment in Electronic Technology II

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.

Electronic Technology Advanced Studies

Prerequisite: Completion of Electronic Technology Program of Study

This course is offered to students who have completed all content standards in the Electronic Technology program of study and desire 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.

Industry-Recognized Credential – Electronic Technology

Prerequisite: Completion of Electronic Technology Program of Study

This course is offered to students who have completed all content standards in the Electronic Technology program of study and desire to pursue an Industry-Recognized Credential that aligns with the standards and skills associated with the Electronic Technology Program of Study. This course is designed to expand the students' opportunities to pursue certification aligned with employment standards in the industry aligned with this program of study. The supervising teacher will provide instruction aligned with the certification requirements, monitor progress toward certification, and provide the students with appropriate testing or certification opportunities associated with the intended Industry-Recognized Credential that is the subject of the course. IRC's earned by students must be on the list of industry-recognized credentials identified by the Governor's Office of Workforce Innovation (OWINN). This course may be repeated for additional instruction and credit.

Heating, Ventilation, Air Conditioning, and Refrigeration I

Prerequisite: None

This course will introduce students to Heating, Ventilation, and Air Conditioning (HVAC). Through a hands-on approach, each student will develop basic understanding in the areas of HVAC: safety, blueprint reading, principles that guide installation and service, electrical components, thermodynamics and heat transfer, and an introduction to heating and refrigeration systems. Practical application of safe work habits and the correct use of tools and equipment will be emphasized throughout this course.

Heating, Ventilation, Air Conditioning, and Refrigeration II

Prerequisite: Heating, Ventilation, Air Conditioning, and Refrigeration I

This course is a continuation of Heating, Ventilation, Air Conditioning, and Refrigeration I. This course provides intermediate HVAC students with knowledge and skills in piping principles, compressors, aspects of refrigerants, and metering devices. 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.

Heating, Ventilation, Air Conditioning, and Refrigeration II LAB

Corequisite: Concurrent enrollment in Heating, Ventilation, Air Conditioning, and Refrigeration II

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.

Intermediate Heating, Ventilation, Air Conditioning, and Refrigeration

Prerequisite: Completion of Heating, Ventilation, Air Conditioning, and Refrigeration Program of Study

This course is a continuation of Heating, Ventilation, Air Conditioning, and Refrigeration II. This course provides advanced HVAC students with knowledge and skills in air distribution systems, heat pumps, common types of duct work, commercial airside systems, indoor air quality and hydronic systems. Through hands-on projects, students develop technical skills that are used throughout the HVAC industry. The appropriate use of technology and industry-standard equipment is an integral part of this course.

Heating, Ventilation, Air Conditioning, and Refrigeration Advanced Studies

Prerequisite: Completion of Heating, Ventilation, Air Conditioning, and Refrigeration Program of Study

This course is offered to students who have completed all content standards in the Heating, Ventilation, Air Conditioning, and Refrigeration program of study and desire 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.

Industry-Recognized Credential – Heating, Ventilation, Air Conditioning, and Refrigeration

Prerequisite: Completion of Heating, Ventilation, Air Conditioning, and Refrigeration Program of Study

This course is offered to students who have completed all content standards in the Heating, Ventilation, Air Conditioning, and Refrigeration program of study and desire to pursue an Industry-Recognized Credential that aligns with the standards and skills associated with the Heating, Ventilation, Air Conditioning, and Refrigeration Program of Study. This course is designed to expand the students' opportunities to pursue certification aligned with employment standards in the industry aligned with this program of study. The supervising teacher will provide instruction aligned with the certification requirements, monitor progress toward certification, and provide the students with appropriate testing or certification opportunities associated with the intended Industry-Recognized Credential that is the subject of the course. IRC's earned by students must be on the list of industry-recognized credentials identified by the Governor's Office of Workforce Innovation (OWINN). This course may be repeated for additional instruction and credit.

Metalworking I

Prerequisite: None

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.

Metalworking II

Prerequisite: Metalworking I

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. Advanced welding methods will be presented as well as career awareness and opportunities in the metals industries. The appropriate use of technology and industry-standard equipment is an integral part of this course.

Metalworking II LAB

Corequisite: Concurrent enrollment in Metalworking II

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.

Metalworking Advanced Studies

Prerequisite: Completion of Metalworking Program of Study

This course is offered to students who have completed all content standards in the Metalworking program of study and desire 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.

Industry-Recognized Credential – Metalworking

Prerequisite: Completion of Metalworking Program of Study

This course is offered to students who have completed all content standards in the Metalworking program of study and desire to pursue an Industry-Recognized Credential that aligns with the standards and skills associated with the Metalworking Program of Study. This course is designed to expand the students' opportunities to pursue certification aligned with employment standards in the industry aligned with this program of study. The supervising teacher will provide instruction aligned with the certification requirements, monitor progress toward certification, and provide the students with appropriate testing or certification opportunities associated with the intended Industry-Recognized Credential that is the subject of the course. IRC's earned by students must be on the list of industry-recognized credentials identified by the Governor's Office of Workforce Innovation (OWINN). This course may be repeated for additional instruction and credit.

Welding Technology I

Prerequisite: None

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 various Welding Certifications. 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, hand and power tools, safety procedures, print reading, measuring and scaling techniques, machine operation, industrial applications including Shielded Metal Arc Welding (SMAW) and Thermal Cutting processes, and provide them with entry-level skills for employment.

Welding Technology II

Prerequisite: Welding Technology I

This course is a continuation of Welding Technology I. This course provides intermediate welding students the ability to augment and further their skill and knowledge levels. Areas of study will include advanced layout and fabrication methodologies, continuation of shielded metal arc welding (SMAW) and thermal cutting processes, fabrication techniques and Gas Metal Arc Welding (GMAW)welding and GMAW Spray transfer on Carbon Steel, Flux Cored Arc Welding (FCAW) and FCAW spray transfer on carbon steel, and Gas Tungsten Arc Welding (GTAW) on carbon steel. All student activities are designed to enhance students' skill levels toward achievement of various welding certifications. The appropriate use of technology and industry-standard equipment is an integral part of this course.

Welding Technology II LAB

Corequisite: Concurrent enrollment in Welding Technology II

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.

Welding Technology Advanced Studies

Prerequisite: Completion of Welding Technology Program of Study

This course is offered to students who have completed all content standards in the Welding Technology program of study and desire 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.

Welding Fabrication

Prerequisite: Completion of Welding Technology Program of Study

This course is offered to students who have completed all content standards in the Welding Technology program of study. This course provides welding technology students with the ability to further their skills and knowledge levels. Areas of study will include performance qualifications in shielded metal arc welding (SMAW), continuation of fabrication techniques and Gas Metal Arc Welding (GMAW)welding and GMAW Spray transfer on Carbon Steel, Flux Cored Arc Welding (FCAW) and FCAW spray transfer on carbon steel, Gas Tungsten Arc Welding (GTAW) on carbon steel, demonstrate welding inspection and testing principles. All student activities are designed to enhance students' skill levels toward achievement of various welding certifications. The appropriate use of technology and industry-standard equipment is an integral part of this course.

Industry-Recognized Credential – Welding Technology

Prerequisite: Completion of Welding Technology Program of Study

This course is offered to students who have completed all content standards in the Welding Technology program of study and desire to pursue an Industry-Recognized Credential that aligns with the standards and skills associated with the Welding Technology Program of Study. This course is designed to expand the students' opportunities to pursue certification aligned with employment standards in the industry aligned with this program of study. The supervising teacher will provide instruction aligned with the certification requirements, monitor progress toward certification, and provide the students with appropriate testing or certification opportunities associated with the intended Industry-Recognized Credential that is the subject of the course. IRC's earned by students must be on the list of industry-recognized credentials identified by the Governor's Office of Workforce Innovation (OWINN). This course may be repeated for additional instruction and credit.

CTE Work Experience – Architecture and Construction

Prerequisite: Completion of Level 2 course in the qualifying program of study

This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth CTE 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.

Course Data Information - Construction

Building Trades in Construction Technology

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
R	Building Trades in Construction Technology I	BUILD CONST TECH I	46.0000	F	17	003	G	1.00	12	17003G1.0012
R	Building Trades in Construction Technology II	BUILD CONST TECH II	46.0000	F	17	003	G	1.00	22	17003G1.0022
C**	Building Trades in Construction Technology II Lab	BUILD CONST TECH II LAB	46.0000	F	17	003	E	1.00	22	17003E1.0022
C	Building Trades in Construction Technology Advanced Studies	BUILD CONST TECH AS	46.0000	F	17	003	E	1.00	11	17003E1.0011
C	Construction Technology	CONST TECH	46.0000	F	17	002	E	1.00	11	17002E1.0011
C	Furniture and Cabinetmaking	FURN CAB	48.0702	F	17	007	E	1.00	11	17007E1.0011
C	Industry-Recognized Credential-Building Trades in Construction Technology	IRC BUILD CONST TECH	46.0000	F	17	999	E	1.00	11	17999E1.0011

Notes:

Building Trades in Construction Technology matched with: SCED 17003 Carpentry

Construction Technology matched with SCED 17002 Construction—Comprehensive

Furniture and Cabinetmaking matched with SCED 17007 Cabinetmaking

Industry-Recognized Credential-Building Trades in Construction Technology matched with: SCED 17999 Architecture and Construction-Other

**Lab courses are to be taught concurrently with the associated level course (i.e., level two course with the level two lab course)

Design Drafting

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
R	Design Drafting I	DES DRAFT I	15.1302	F	21	102	G	1.00	12	21102G1.0012
R	Design Drafting I	DES DRAFT II	15.1302	F	21	102	G	1.00	22	21102G1.0022
C**	Design Drafting II LAB	DES DRAFT II L	15.1302	F	21	102	E	1.00	22	21102E1.0022
C	Design Drafting Advanced Studies	DES DRAFT AS	15.1302	F	21	102	E	1.00	11	21102E1.0011
C	Architecture Design	ARCH DESG	15.1303	F	21	103	E	1.00	11	21103E1.0011
C	Industry-Recognized Credential – Design Drafting	IRC DES DRAFT	15.1302	F	17	999	E	1.00	11	17999E1.0011

Notes:

Design Drafting matched with: SCED 21102 Drafting—General

Architecture Design matched with SCED 21103 Drafting—Architectural

Industry-Recognized Credential – Design Drafting matched with: SCED 17999 Architecture and Construction-Other

**Lab courses are to be taught concurrently with the associated level course (i.e., level two course with the level two lab course)

Electronic Technology

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
R	Electronic Technology I	ELEC TECH I	47.0105	F	17	101	G	1.00	12	17101G1.0012
R	Electronic Technology II	ELEC TECH II	47.0105	F	17	101	G	1.00	22	17101G1.0022
C**	Electronic Technology II LAB	ELEC TECH II L	47.0105	F	17	101	E	1.00	22	17101E1.0022
C	Electronic Technology Advanced Studies	ELEC TECH AS	47.0105	F	17	101	E	1.00	11	17101E1.0011
C	Industry-Recognized Credential-Electronic Technology	IRC ELEC TECH	47.0105	F	**17**	999	E	1.00	11	**17999E1.0011**

Notes:

Electronic Technology matched with: SCED 17101 Exploration of Electricity/Electronics

Industry-Recognized Credential-Electronic Technology matched with: SCED 17999 Manufacturing-Other

(old 13999 Manufacturing-Other)

**Lab courses are to be taught concurrently with the associated level course (i.e., level two course with the level two lab course)

Nevada Career and Technical Education Course Catalog 2026-27

Heating, Ventilation, Air Conditioning, and Refrigeration

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
R	Heating, Ventilation, Air Conditioning and Refrigeration I	HVACR I	47.0201	F	17	055	G	1.00	12	17055G1.0012
R	Heating, Ventilation, Air Conditioning and Refrigeration II	HVACR II	47.0201	F	17	055	G	1.00	22	17055G1.0022
C**	Heating, Ventilation, Air Conditioning and Refrigeration II LAB	HVACR II L	47.0201	F	17	055	E	1.00	22	17055E1.0022
C	Intermediate Heating, Ventilation, Air Conditioning and Refrigeration	INT HVACR	47.0201	F	17	055	E	1.00	11	17055E1.0011
C	Heating, Ventilation, Air Conditioning and Refrigeration Advanced Studies	HVACR AS	47.0201	F	17	055	E	1.00	11	17055E1.0011
C	Industry-Recognized Credential-HVARC	IRC HVARC	47.0201	F	17	999	E	1.00	11	17999E1.0011

Notes:

Heating, Ventilation, Air Conditioning and Refrigeration matched with: SCED 17055 Air Conditioning, Heating, and Refrigeration

Industry-Recognized Credential-HVARC matched with: SCED 17999 Architecture and Construction-Other

**Lab courses are to be taught concurrently with the associated level course (i.e., level two course with the level two lab course)

Metalworking

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
R	Metalworking I	METALWRKG I	48.0511	F	13	202	G	1.00	13	13202G1.0012
R	Metalworking II	METALWRKG II	48.0511	F	13	202	G	1.00	23	13202G1.0022
C**	Metalworking II LAB	METALWRKG II L	48.0511	F	13	202	G	1.00	33	13202E1.0011
C	Metalworking Advanced Studies	METALWRKG AS	48.0511	F	13	202	E	1.00	11	13202E1.0011
C	Industry-Recognized Credential-Industrial Maintenance	IRC IND MAINT	47.0303	F	17	999	E	1.00	11	17999E1.0011

Notes:

Metalworking matched with: SCED 13202 Metalworking

Industry-Recognized Credential-Industrial Maintenance matched with: SCED 13999 Manufacturing—Other (old 13999 Manufacturing-Other)

**Lab courses are to be taught concurrently with the associated level course (i.e., level two course with the level two lab course)

Nevada Career and Technical Education Course Catalog 2026-27

Course Data Information - Advanced Manufacturing (continued)

Welding Technology

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
R	Welding Technology I	WELDING TECH I	48.0508	F	13	207	G	1.00	12	13207G1.0012
R	Welding Technology II	WELDING TECH II	48.0508	F	13	207	G	1.00	22	13207G1.0022
C**	Welding Technology II LAB	WELDING TECH II L	48.0508	F	13	207	E	1.00	22	13207E1.0022
C	Welding Technology Advanced Studies	WELDING TECH AS	48.0508	F	13	207	E	1.00	11	13207E1.0011
C	Welding Fabrication	WELD FAB	48.0508	F	13	208	E	1.00	11	13208E1.0011
C	Industry-Recognized Credential-Welding	IRC WELDING	48.0508	F	**17**	999	E	1.00	11	**17999E1.0011**

Notes:

Welding Technology matched with: SCED 13207 Welding

Welding Fabrication match with: SCED 13208 Particular Topics in Welding

Industry-Recognized Credential-Welding matched with: SCED 13999 Manufacturing—Other (old 13999 Manufacturing-Other)

**Lab courses are to be taught concurrently with the associated level course (i.e., level two course with the level two lab course)

CTE Work Experience – Architecture and Construction

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
C	CTE Work Experience - Construction	WORK EXPER CONST	**99.0024**	17	998	G	1.00	11	17998G1.0011

Notes:

Work Experience –Construction matched with: SCED 17998 Architecture and Construction—Workplace Experience

Program Alignment for
Digital Technology

The Digital Technology Career Cluster focuses on developing digital systems for communication and data storage using critical technologies such as artificial intelligence (AI), data analytics, and cybersecurity. This Cluster builds skills necessary for all careers to navigate and lead in the constantly evolving tech landscape and drives innovation across all industries to tackle complex challenges and opportunities in communities and economies.

- Advanced Computer Science
- Cybersecurity
- Digital Game Development
- Information Technology Networking
- Web Design and Development

Program Descriptions
Digital Technology

Advanced Computer Science (formerly in Information Technology cluster)

The Advanced Computer Science program provides students a deeper exploration in the study of computer science and computational thinking to include algorithms and programming, computing systems, data and analysis, the impacts of computing, and networks and the internet. Topics introduced include abstraction, artificial intelligence, machine learning, the basics of cybersecurity, and object-oriented programming.

Cybersecurity (formerly in Information Technology cluster)

The Cybersecurity program provides students with the foundational knowledge of operating systems, networking and network operations, industry protocols and practices for securing computing systems, computer forensic concepts, and emerging technologies in cybersecurity.

Digital Game Development (formerly in Information Technology cluster)

The Digital Game Development program provides students with the principles of game mechanics. Areas of study include programming, story and character development, and artistic theory and concepts to develop a game.

Information Technology Networking (formerly in Information Technology cluster)

The Information Technology Networking program provides students with concepts in computer networking. Areas of study include safety procedures, network systems hardware, network protocols, and constructing and maintaining a network.

Web Design and Development (formerly in Information Technology cluster)

The Web Design and Development program provides students with concepts to develop and maintain websites. Areas of study include content development, backend programming, design and layout theories, and user interface.

Program Course Sequences
Digital Technology

Program Name	Course Sequence	State Skill Standards*
Advanced Computer Science	**Core Course Sequence** Advanced Computer Science I Advanced Computer Science II or AP Computer Science A **Concurrent Course(s)** Advanced Computer Science II LAB ** **Complementary Course(s)** Advanced Computer Science Advanced Studies Software and App Development for Advanced Computer Science CTE Work Experience – Digital Technology Industry-Recognized Credential-Advanced Computer Science	Advanced Computer Science Program of Study with Complementary Course Standards
Cybersecurity	**Core Course Sequence** Cybersecurity I Cybersecurity II **Concurrent Course(s)** Cybersecurity II LAB ** **Complementary Course(s)** Cybersecurity Advanced Studies Cryptography Ethical Hacking CTE Work Experience – Digital Technology Industry-Recognized Credential-Cybersecurity	Cybersecurity Program of Study with Complementary Course Standards
Digital Game Development	**Core Course Sequence** Digital Game Development I Digital Game Development II **Concurrent Course(s)** Digital Game Development II LAB ** **Complementary Course(s)** Digital Game Development Advanced Studies 3D Animation for Digital Game Development Software and App Development for Digital Game Development CTE Work Experience – Digital Technology Industry-Recognized Credential-Digital Game Development	Digital Game Development Program of Study with Complementary Course Standards
Information Technology Networking	**Core Course Sequence** CISCO IT Essentials/Intro to Cybersecurity CCNA I Introduction to Networking CCNA II Routing and Switching Essentials **Complementary Course(s)** IT Networking Advanced Studies CTE Work Experience – Digital Technology	Information Technology Networking Standards
Web Design and Development	**Core Course Sequence** Web Design and Development I Web Design and Development II **Concurrent Course(s)** Web Design and Development II LAB ** **Complementary Course(s)** Web Design and Development Advanced Studies 2D Animation for Web Design and Development UI/UX For Digital Applications for Web Design and Development CTE Work Experience – Digital Technology Industry-Recognized Credential-Web Design and Development	Web Design and Development Program of Study with Complementary Course Standards

* 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 course – see individual course descriptions for requirements and corequisites.

Course Descriptions
Digital Technology

Advanced Computer Science I

Prerequisite: None (successful completion of AP Computer Science Principles is recommended but not required and does not substitute for Advanced Computer Science I)

This course will introduce students to the essential concepts of computer science and show how computing and technology can influence the world. This course focuses on using technology and programming to solve computational problems and find creative solutions that reduce bias and equity deficits. Topics include classic algorithmic design, control structures, decomposition, modularity, abstraction, hardware and software, data analysis, developing programs, and troubleshooting. The appropriate use of technology and industry-standard equipment is an integral part of this course.

Advanced Computer Science II (Option A)

Prerequisite: Advanced Computer Science I

This course is a continuation of Advanced Computer Science I. Topics to be explored include, advanced algorithms, conditional controls, recursion, the use of libraries, data collection and visualization tools, societal impacts of computing, basic networking and cloud computing, cybersecurity issues, and artificial intelligence. The students will continue to develop all skills learned in Advanced Computer Science 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.

AP Computer Science A (Option B)

Prerequisite: Advanced Computer Science I

This course follows The College Board Advanced Placement (AP) curriculum and prepares students for the AP Computer Science exam. This course provides advanced computer science students with instruction in advanced topics that include problem solving, design strategies and methodologies, data structures, algorithms, analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes both object-oriented and imperative problem solving and design. Students will learn to write, run, and debug solutions in the Java programming language, utilizing standard Java library classes. 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.

Advanced Computer Science II LAB

Corequisite: Concurrent enrollment in Advanced Computer Science II OR AP Computer Science A

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.

Advanced Computer Science Advanced Studies

Prerequisite: Completion of Advanced Computer Science Program of Study

This course is offered to students who have completed all content standards in the Advanced Computer Science program of study and desire 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.

Software and App Development for Advanced Computer Science

Prerequisite: Completion of Advanced Computer Science Program of Study

This course is offered to students who have completed all content standards in the Advanced Computer Science program and desire to pursue advanced study through investigation and in-depth research. This course expands the learner's knowledge of algorithms. It explores Dev Net and API frameworks that are integral to application and software development.

Industry-Recognized Credential – Advanced Computer Science

Prerequisite: Completion of Advanced Computer Science Program of Study

This course is offered to students who have completed all content standards in a program of study and desire to pursue an Industry-Recognized Credential that aligns with the standards and skills associated with the Advanced Computer Science Program of Study. This course is designed to expand the students' opportunities to pursue certification aligned with employment standards in the industry aligned with this program of study. The supervising teacher will provide instruction aligned with the certification requirements, monitor progress toward certification, and provide the students with appropriate testing or certification opportunities associated with the intended Industry-Recognized Credential that is the subject of the course. IRC's earned by students must be on the list of industry-recognized credentials identified by the Governor's Office of Workforce Innovation (OWINN). This course may be repeated for additional instruction and credit.

Cybersecurity I

Prerequisite: None

This course covers the fundamentals of computer hardware and software, as well as topics in safety procedures, design, maintenance, and repair, and an understanding of emerging technologies in this field. Students who complete this course will be able to describe the internal components of a computer, assemble a computer system, install and configure an operating system with peripherals, and troubleshoot using system tools and diagnostic software.

Cybersecurity II

Prerequisite: Cybersecurity I

This course is a continuation of Cybersecurity I. This course provides advanced cybersecurity students with computer forensics and incident handling, general theory on networks, and network troubleshooting. Students will learn to develop and execute an incident response plan, document an incident, determine investigative objectives, describe methods to trace offenders and use appropriate tools for computer forensics. Methods for deciphering encrypted data and a working knowledge of hard drive configuration are also covered. The appropriate use of technology and industry-standard equipment is an integral part of this course.

Cybersecurity II LAB

Corequisite: Concurrent enrollment in Cybersecurity II

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.

Cybersecurity Advanced Studies

Prerequisite: Completion of Cybersecurity Program of Study

This course is offered to students who have completed all content standards in the Cybersecurity program of study and desire 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.

Cryptography

Prerequisite: Completion of Cybersecurity Program of Study

This course is offered to students who have completed all content standards in the Cybersecurity program of study. This course explores the field of ciphers and encrypted messages, as well as deciphering encrypted messages. Students will understand the historical context of cryptography and how it is used today, especially in cybersecurity and computer forensics.

Ethical Hacking

Prerequisite: Completion of Cybersecurity Program of Study

This course is offered to students who have completed all content standards in the Cybersecurity program of study. This course explores the field of ethical hacking. Students will learn about the stages of an attack, the tools and techniques used at each stage of an attack, how to perform a penetration test, and how to report the findings. Students will also learn concepts of shell scripting and Python scripting that are useful to ethical hackers.

Industry-Recognized Credential – Cybersecurity

Prerequisite: Completion of Cybersecurity Program of Study

This course is offered to students who have completed all content standards in the Cybersecurity program of study and desire to pursue an Industry-Recognized Credential that aligns with the standards and skills associated with the Cybersecurity Program of Study. This course is designed to expand the students' opportunities to pursue certification aligned with employment standards in the industry aligned with this program of study. The supervising teacher will provide instruction aligned with the certification requirements, monitor progress toward certification, and provide the students with appropriate testing or certification opportunities associated with the intended Industry-Recognized Credential that is the subject of the course. IRC's earned by students must be on the list of industry-recognized credentials identified by the Governor's Office of Workforce Innovation (OWINN). This course may be repeated for additional instruction and credit.

Digital Game Development I

Prerequisite: None

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.

Digital Game Development II

Prerequisite: Digital Game Development I

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 major areas of emphasis in the course will be development of characters, immersive environments, different genres, and exploration of multi-player games. 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.

Digital Game Development II LAB

Corequisite: Concurrent enrollment in Digital Game Development II

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.

Digital Game Development Advanced Studies

Prerequisite: Completion of Digital Game Development Program of Study

This course is offered to students who have completed all content standards in the Digital Game Development program of study and desire 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.

3D Animation for Digital Game Development

Prerequisite: Completion of Digital Game Development Program of Study

This course is offered to students who have completed all content standards in the Digital Game Development program and desire to pursue advanced study through investigation and in-depth research. This course introduces students to 3D animation, from preproduction, production, to postproduction. The design process will be applied to create 3D animation.

Software and App Development for Digital Game Development

Prerequisite: Completion of Digital Game Development Program of Study

This course is offered to students who have completed all content standards in the Digital Game Development program and desire to pursue advanced study through investigation and in-depth research. This course expands the learner's knowledge of algorithms. It explores Dev Net and API frameworks that are integral to application and software development.

Industry-Recognized Credential – Digital Game Development

Prerequisite: Completion of Digital Game Development Program of Study

This course is offered to students who have completed all content standards in the Digital Game Development program of study and desire to pursue an Industry-Recognized Credential that aligns with the standards and skills associated with the Digital Game Development Program of Study. This course is designed to expand the students' opportunities to pursue certification aligned with employment standards in the industry aligned with this program of study. The supervising teacher will provide instruction aligned with the certification requirements, monitor progress toward certification, and provide the students with appropriate testing or certification opportunities associated with the intended Industry-Recognized Credential that is the subject of the course. IRC's earned by students must be on the list of industry-recognized credentials identified by the Governor's Office of Workforce Innovation (OWINN). This course may be repeated for additional instruction and credit.

CISCO-IT Essentials

Prerequisite: None

This course introduces students to the fundamentals of computer hardware and software, mobile devices, security and networking concepts, and the responsibilities of an IT professional. Students will be able to describe the internal components of a computer and assemble a computer system. Students will be able to install and understand operating systems, connect via a networked environment, and troubleshoot using system tools and diagnostic software.

CISCO-Introduction to Cybersecurity

Prerequisite: CISCO-IT Essentials

This course explores the broad topic of cybersecurity including procedures to implement data confidentiality, integrity, availability, and security controls on networks, servers, and applications. Students will understand security principles and how to protect personal data and privacy online.

CCNA I Introduction to Networking

Prerequisite: CISCO-IT Essentials/CISCO-Introduction to Cybersecurity

This course covers basic networking concepts including networking architecture, structure, and functions; principles and structure of IP addressing; router hardware; network configurations; and the fundamentals of Ethernet concepts.

CCNA II Routing and Switching Essentials

Prerequisite: CISCO-CCNA I Introduction to Networking

This course covers the architecture, components, and operations of routers and switches in a network. Students will learn how to configure a router and a switch for basic functionality. Configuration implementation of monitoring tools is also addressed. Upon successful completion of this program, students will be prepared for CompTIA's A+ and the Cisco Certified Entry Networking Technician (CCENT) certification exams.

IT Networking Advanced Studies

Prerequisite: CISCO-CCNA II Routing and Switching Essentials

This course is offered to students who have completed all content standards in the Information Technology program of study and desire 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.

Web Design and Development I

Prerequisite: None

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, and typography using industry standard software. Students are introduced to various web design languages to build their websites, design concepts, and layout theory. Students will become familiar with marketing and other uses of websites; as well as security, ethical, legal, usability, and accessibility issues related to websites. The appropriate use of technology and industry-standard equipment is an integral part of this course.

Web Design and Development II

Prerequisite: Web Design and Development I

This course is a continuation of Web Design and Development I. 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, interactivity in websites, as well as databases, web servers, content management systems, and a more extensive knowledge of website construction. Students will explore emerging technologies in the web design and development field such as artificial intelligence and augmented reality. 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.

Web Design and Development II LAB

Corequisite: Concurrent enrollment in Web Design and Development II

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.

Web Design and Development Advanced Studies

Prerequisite: Completion of Web Design and Development Program of Study

This course is offered to students who have completed all content standards in the Web Design and Development program of study and desire 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.

2D Animation for Web Design and Development

Prerequisite: Completion of Web Design and Development Program of Study

This course is offered to students who have completed all content standards in the Web Design and Development program of study and desire to pursue advanced study through investigation and in-depth research. This course expands on the students' knowledge of graphic design with an introduction to 2D animation from preproduction, through production, and postproduction. The design process will be applied to create 2D animation.

UI/UX For Digital Applications for Web Design and Development

Prerequisite: Completion of Web Design and Development Program of Study

This course is offered to students who have completed all content standards in the Web Design and Development program of study and desire to pursue advanced study through investigation and in-depth research. This course explores User Interface (UI) and User Experience (UX) for websites. UI/UX is about how a user interacts with a website to achieve the goals of the site. The nature of e-commerce and industry practices are discussed.

Industry-Recognized Credential – Web Design and Development

Prerequisite: Completion of Web Design and Development Program of Study

This course is offered to students who have completed all content standards in the Web Design and Development program of study and desire to pursue an Industry-Recognized Credential that aligns with the standards and skills associated with the Web Design and Development Program of Study. This course is designed to expand the students' opportunities to pursue certification aligned with employment standards in the industry aligned with this program of study. The supervising teacher will provide instruction aligned with the certification requirements, monitor progress toward certification, and provide the students with appropriate testing or certification opportunities associated with the intended Industry-Recognized Credential that is the subject of the course. IRC's earned by students must be on the list of industry-recognized credentials identified by the Governor's Office of Workforce Innovation (OWINN). This course may be repeated for additional instruction and credit.

CTE Work Experience – Information Technology

Prerequisite: Completion of Level 2 course in the qualifying program of study

This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth CTE 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.

Course Data Information - Digital Technology

Advanced Computer Science

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
R	Advanced Computer Science I	ADV COMP SCI I	11.0701	F	10	152	G	1.00	12	10152G1.0012
R	Advanced Computer Science II	ADV COMP SCI II	11.0701	F	10	152	G	1.00	22	10152G1.0022
R	-OR- *AP Computer Science A*	*AP COMPUTER SCI A*	11.0701	F	10	157	G	1.00	22	10157G1.0022
C**	Advanced Computer Science II LAB	ADV COMPUTER SCI II L	11.0701	F	10	152	E	1.00	22	10152E1.0022
C	Advanced Computer Science Advanced Studies	ADV COMPUTER SCI AS	11.0701	F	10	152	E	1.00	11	10152E1.0011
C	Software and App Development for Advanced Computer Science	APP DEV ADV COMP SCI	11.0205	F	10	160	E	1.00	11	10160E1.0011
C	Industry-Recognized Credential-Advanced Computer Science	IRC ADV COMPUTER SCI	11.0701	F	10	999	E	1.00	11	10999E1.0011

Notes:

Advanced Computer Science matched with:	SCED 10152 Computer Science Principles
AP Computer Science A matched with:	SCED 10157 AP Computer Science A
Software and App Development for Advanced Computer Science matched with:	SCED 10160 Particular Topics in Computer Programming
Industry-Recognized Credential-Advanced Computer Science matched with:	SCED 10999 Information Technology-Other

**Lab courses are to be taught concurrently with the associated level course (i.e., level two course with the level two lab course)

Cybersecurity

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
R	Cybersecurity I	CYBRSECU I	11.1001	F	10	020	G	1.00	12	10020G1.0012
R	Cybersecurity II	CYBRSECU II	11.1001	F	10	020	G	1.00	22	10020G1.0022
C**	Cybersecurity II LAB	CYBRSECU II	11.1001	F	10	020	E	1.00	22	10020E1.0022
C	Cybersecurity Advanced Studies	CYBRSECU AS	11.1001	F	10	020	E	1.00	11	10020E1.0011
C	Cryptography	CRYPTO	11.1003	F	10	055	E	1.00	11	10055E1.0011
C	Ethical Hacking	ETHICAL HACK	43.0403	F	10	108	E	1.00	11	10108E1.0011
C	Industry-Recognized Credential-Cybersecurity	IRC CYBRSECU	11.1001	F	10	999	E	1.00	11	10999E1.0011

Notes:

Cybersecurity matched with: SCED 10020 Cybersecurity

Cryptography matched with: SCED 10055 Java Programming

Ethical Hacking matched with: SCED 10108 Network Security

Industry-Recognized Credential-Advanced Computer Science matched with: SCED 10999 Information Technology-Other

**Lab courses are to be taught concurrently with the associated level course (i.e., level two course with the level two lab course)

Digital Game Development

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
R	Digital Game Development I	DIG GAME DEV I	50.0411	N	10	205	G	1.00	12	10205G1.0012
R	Digital Game Development II	DIG GAME DEV II	50.0411	N	10	205	G	1.00	22	10205G1.0022
C**	Digital Game Development II LAB	DIG GAME DEV II L	50.0411	N	10	205	E	1.00	22	10205E1.0022
C	Digital Game Development Advanced Studies	DIG GAME DEV AS	50.0411	N	10	205	E	1.00	11	10205E1.0011
C	3D Animation for Digital Game Development	3D ANIMATE DGD	20.0102	N	10	205	E	1.00	11	10205E1.0011
C	Software and App Development for Digital Game Development	APP DEV DGD	11.0205	F	10	160	E	1.00	11	10160E1.0011
C	Industry-Recognized Credential-Digital Game Development	IRC DIG GAME DEV	50.0411	N	10	999	E	1.00	11	10999E1.0011

Notes:

Digital Game Development matched with: SCED 10205 Computer Gaming and Design

3D Animation for Digital Game Development matched with: SCED 10205 Computer Gaming and Design

Software and App Development for Advanced Computer Science matched with: SCED 10160 Particular Topics in Computer Programming

**Lab courses are to be taught concurrently with the associated level course (i.e., level two course with the level two lab course)

Information Technology Networking

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
R	**Cisco IT Essentials ***	**CISCO IT ESST**	**11.1002**	**F**	**10**	**102**	**G**	**0.5**	**13**	**10102G0.5013**
R	**-AND- Cisco Introduction to Cybersecurity ***	**CISCO IT CYBR**	**11.1002**	**F**	**10**	**102**	**G**	**0.5**	**13**	**10102G0.5013**
R	CCNA I Introduction to Networking	CISCO CCNA I	11.1002	F	10	102	G	1.00	23	10102G1.0023
R	CCNA II Routing and Switching Essentials	CISCO CCNA II	11.1002	F	10	102	G	1.00	33	10102G1.0033
C	IT Networking Advanced Studies	IT NETWRKG AS	11.1002	F	10	102	E	1.00	11	10102E1.0011

Notes:

Cisco Networking matched with: SCED 10102 Networking Systems

*** Cisco IT Essentials and Cisco Introduction to Cybersecurity represent the completion of one year, 1.0 credit, for level one. Both courses are required.**

Nevada Career and Technical Education Course Catalog 2026-27

Web Design and Development

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
R	Web Design and Development I	WEB DESG DEV I	11.0801	N	10	201	G	1.00	12	10201G1.0012
R	Web Design and Development II	WEB DESG DEV II	11.0801	N	10	201	G	1.00	22	10201G1.0022
C**	Web Design and Development II LAB	WEB DESG DEV II L	11.0801	N	10	201	E	1.00	22	10201E1.0022
C	Web Design and Development Advanced Studies	WEB DESG DEV AS	11.0801	N	10	201	E	1.00	11	10201E1.0011
C	2D Animation for Web Design and Development	2D ANIMATE WDD	10.0304	N	10	204	E	1.00	11	10204E1.0011
C	UI/UX for Digital Applications for Web Design and Development	UI/UX DIGI WDD	11.0801	N	10	204	E	1.00	11	10204E1.0011
C	Industry-Recognized Credential-Web Design and Development	IRC WEB DESG DEV	11.0801	N	10	999	E	1.00	11	10999E1.0011

Notes:

Web Design and Development matched with: SCED 10201 Web Page Design
2D Animation for Web Design and Development matched with: SCED 10204 Particular Subjects in Media Technology
UI/UX for Digital Applications for Web Design and Development matched with: SCED 10204 Particular Subjects in Media Technology
Industry-Recognized Credential-Web Design and Development matched with: SCED 10999 Information Technology-Other

**Lab courses are to be taught concurrently with the associated level course (i.e., level two course with the level two lab course)

CTE Work Experience - Digital Technology

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
C	CTE Work Experience - Digital Technology	WORK EXPER IT	**99.0025**	F	10	**998**	G	1.00	11	**10998G1.0011**

Notes:

Work Experience - Digital Technology matched with: SCED 10998 Information Technology—Workplace Experience
(old 10298 Information Support and Services—Workplace Experience)

Program Alignment for
Education

The Education Career Cluster spans careers aimed at fostering learning from early childhood to adulthood, including teaching, instructional design, counseling services, community engagement, learner support, and educator training. This Cluster emphasizes quality education standards and lifelong learning, preparing individuals for success through all life stages by nurturing knowledge, skills, and critical thinking and encouraging personal and societal growth in a constantly evolving world.

- Early Childhood Education
- Family and Consumer Sciences
- Teaching and Training

Program Descriptions
Education

Early Childhood Education (formerly in Education and Training cluster)

The Early Childhood Education program addresses child development, childcare, and teaching and learning, to guide the development of young children in an educational setting. Areas of study include planning and implementing developmentally appropriate activities, basic health and safety practices, legal requirements for teaching young children, and the development of a career portfolio.

Family and Consumer Sciences (formerly in Human Services)

The Family and Consumer Sciences program provides instruction in topics which prepare students for adult roles and responsibilities, as well as workplace readiness. This program of study focuses on developing skills for balancing home, work, and life. Students study life, wealth, and home management, family dynamics, nutrition, wellness, and community leadership. This program also offers students a pathway into occupations related to human and social sciences: such as consumer or financial services, home care assistance, food related industries, counseling, social work, and family and consumer sciences professions.

Teaching and Training (formerly in Education and Training cluster)

The Teaching and Training program provides students with an introduction to the principles of education. This program addresses human development, care, teaching, and learning, so that students can guide the development of learners in an educational setting. Areas of study include planning and implementing developmentally appropriate activities, basic health and safety practices, and legal requirements for teaching learners.

Program Course Sequences
Education

Program Name	Course Sequence	State Skill Standards*
Early Childhood Education	**Core Course Sequence** Early Childhood Education I Early Childhood Education II **Concurrent Course(s)** Early Childhood Education II LAB ** **Complementary Course(s)** Early Childhood Education Advanced Studies CTE Work Experience – Education Industry Recognized Credential-Early Childhood Education	Early Childhood Education Standards
Family and Consumer Sciences	**Core Course Sequence** Family and Consumer Sciences I Family and Consumer Sciences II **Concurrent Course(s)** Family and Consumer Sciences II LAB ** **Complementary Course(s)** Family and Consumer Sciences Advanced Studies Nutrition for FACS CTE Work Experience – Education Industry-Recognized Credential – Family and Consumer Sciences	Family and Consumer Sciences Program of Study with Complementary Course Standards
Teaching and Training	**Core Course Sequence** Teaching and Training I Teaching and Training II **Complementary Course(s)** Teaching and Training Advanced Studies CTE Work Experience – Education Industry Recognized Credential-Teaching and Training	Teaching and Training Standards

* 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 course – see individual course descriptions for requirements and corequisites.

Course Descriptions
Education

Early Childhood Education I

Prerequisite: None

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.

Early Childhood Education II

Prerequisite: Early Childhood Education I

This course is a continuation of Early Childhood Education I. This course prepares early childhood education students to guide the development of young children in an educational setting. Course content includes child development, care, teaching, learning, and education issues. Project-based learning experiences include planning and implementing developmentally appropriate activities, health and safety practices, and legal requirements of teaching young children. Students will research the requirements of early childhood education and develop/expand their career portfolio. The appropriate use of technology and industry-standard equipment is an integral part of this course.

Early Childhood Education II LAB

Corequisite: Concurrent enrollment in Early Childhood Education II

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.

Early Childhood Education Advanced Studies

Prerequisite: Completion of Early Childhood Education Program of Study

This course is offered to students who have completed all content standards in the Early Childhood Education program of study and desire 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.

Industry-Recognized Credential – Early Childhood Education

Prerequisite: Completion of Early Childhood Education Program of Study

This course is offered to students who have completed all content standards in the Early Childhood Education program of study and desire to pursue an Industry-Recognized Credential that aligns with the standards and skills associated with the Early Childhood Education Program of Study. This course is designed to expand the students' opportunities to pursue certification aligned with employment standards in the industry aligned with this program of study. The supervising teacher will provide instruction aligned with the certification requirements, monitor progress toward certification, and provide the students with appropriate testing or certification opportunities associated with the intended Industry-Recognized Credential that is the subject of the course. IRC's earned by students must be on the list of industry-recognized credentials identified by the Governor's Office of Workforce Innovation (OWINN). This course may be repeated for additional instruction and credit.

Family and Consumer Sciences I

Prerequisite: None

This course is designed to address a broad range of knowledge and skills related to personal development, promotion of strong interpersonal relationships, clothing selection and maintenance, nutrition and wellness, food selection and preparation, budgeting, and the management of multiple family, community, and wage-earner roles.

Family and Consumer Sciences II

Prerequisite: Family and Consumer Sciences I

This course is a continuation of Family and Consumer Sciences I. It builds on concepts related to food, clothing, consumerism, relationships, and career preparation. This program also offers students a pathway into occupations related to human and social sciences: such as consumer or financial services, home care assistance, food related industries, counseling, social work, and family and consumer sciences professions. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will be prepared for additional education in these fields.

Family and Consumer Sciences II LAB

Corequisite: Concurrent enrollment in Family and Consumer Sciences II

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.

Family and Consumer Sciences Advanced Studies

Prerequisite: Completion of Family and Consumer Sciences Program of Study

This course is offered to students who have completed all content standards in the Family and Consumer Sciences program of study and desire 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.

Nutrition for FACS

Prerequisite: Completion of Family and Consumer Sciences Program of Study

This course is offered to students who have completed all content standards in the Family and Consumer Sciences program of study. This course provides an introduction to the study of foods and nutrition. Emphasis is placed on the exploration of foods and meal planning in relation to nutrition science, fitness, the lifecycle, customs, and preparation techniques. Kitchen safety, sanitation, and resources management are integral parts of this course.

Industry-Recognized Credential – Family and Consumer Sciences

Prerequisite: Completion of Family and Consumer Sciences Program of Study

This course is offered to students who have completed all content standards in the Family and a program of study and desire to pursue an Industry-Recognized Credential that aligns with the standards and skills associated with the Family and Consumer Sciences Program of Study. This course is designed to expand the students' opportunities to pursue certification aligned with employment standards in the industry aligned with this program of study. The supervising teacher will provide instruction aligned with the certification requirements, monitor progress toward certification, and provide the students with appropriate testing or certification opportunities associated with the intended Industry-Recognized Credential that is the subject of the course. IRC's earned by students must be on the list of industry-recognized credentials identified by the Governor's Office of Workforce Innovation (OWINN). This course may be repeated for additional instruction and credit.

Teaching and Training I

Prerequisite: None

This course provides students with an introduction to the principles of education. This course addresses teaching, and learning. Study includes planning and implementing developmentally appropriate activities, basic health and safety practices, and legal requirements for teaching. The appropriate use of technology and industry-standard equipment is an integral part of this course. Students will research the requirements of education and training careers and begin to develop a career portfolio.

Teaching and Training II

Prerequisite: Teaching and Training I

This course is a continuation of Teaching and Training I. Students will continue to develop skills, advanced techniques, and processes. Project-based learning experiences will include planning and implementing developmentally appropriate activities, health and safety practices, and legal requirements of teaching in a school classroom or workplace environment. The appropriate use of technology and industry-standard equipment is an integral part of this course. Students will expand their career portfolio.

Teaching and Training Advanced Studies

Prerequisite: Completion of Teaching and Training Program of Study

This course is offered to students who have completed all content standards in the Teaching and Training program of study and desire 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.

Industry-Recognized Credential – Teaching and Training

Prerequisite: Completion of Teaching and Training Program of Study

This course is offered to students who have completed all content standards in the Teaching and Training program of study and desire to pursue an Industry-Recognized Credential that aligns with the standards and skills associated with the Teaching and Training Program of Study. This course is designed to expand the students' opportunities to pursue certification aligned with employment standards in the industry aligned with this program of study. The supervising teacher will provide instruction aligned with the certification requirements, monitor progress toward certification, and provide the students with appropriate testing or certification opportunities associated with the intended Industry-Recognized Credential that is the subject of the course. IRC's earned by students must be on the list of industry-recognized credentials identified by the Governor's Office of Workforce Innovation (OWINN). This course may be repeated for additional instruction and credit.

CTE Work Experience – Education

Prerequisite: Completion of Level 2 course in the qualifying program of study

This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth CTE 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.

Course Data Information - Education

Early Childhood Education

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
R	Early Childhood Education I	EARLY CHILD I	13.1210	M	19	153	G	1.00	12	19153G1.0012
R	Early Childhood Education II	EARLY CHILD II	13.1210	M	19	153	G	1.00	22	19153G1.0022
C**	Early Childhood Education II LAB	EARLY CHILD II L	13.1210	M	19	153	E	1.00	22	19153E1.0022
C	Early Childhood Education Advanced Studies	EARLY CHILD AS	13.1210	M	19	153	E	1.00	11	19153E1.0011
C	Industry-Recognized Credential-Early Childhood Education	IRC EARLY CHILD	13.1210	M	19	199	E	1.00	11	19199E1.0011

Notes:

Early Childhood Education matched with: SCED 19153 Teaching—Early Childhood Education

Industry-Recognized Credential-Early Childhood Education matched with: SCED 19199 Education-Other

**Lab courses are to be taught concurrently with the associated level course (i.e., level two course with the level two lab course)

Family and Consumer Sciences

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
R	Family and Consumer Sciences I	FAMILY CS I	19.0101	N	19	251	G	1.00	12	19251G1.0012
R	Family and Consumer Sciences II	FAMILY CS II	19.0101	N	19	251	G	1.00	22	19251G1.0022
C**	Family and Consumer Sciences II LAB	FAMILY CS II L	19.0101	N	19	251	E	1.00	22	19251E1.0022
C	Family and Consumer Sciences Advanced Studies	FAMILY CS AS	19.0101	N	19	251	E	1.00	11	19251E1.0011
C	Nutrition for Family and Consumer Sciences	NUTRITION FACS	19.0501	M	19	252	E	1.00	11	19252E1.0011
C	Industry-Recognized Credential-Family and Consumer Sciences	IRC FAMILY CS	19.0101	N	19	**199**	E	1.00	11	**19199E1.0011**

Notes:

Family and Consumer Sciences matched with: SCED 19251 Family and Consumer Sciences—Comprehensive

Nutrition for Family and Consumer Sciences matched with: SCED 19252 Food Preparation and Health Management

Industry-Recognized Credential-Family and Consumer Sciences matched with: SCED 19199 Education-Other

(old 19999 Human Services—Other)

**Lab courses are to be taught concurrently with the associated level course (i.e., level two course with the level two lab course)

Nevada Career and Technical Education Course Catalog 2026-27

Teaching and Training

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
R	Teaching and Training I	TEACH TRNG I	13.1206	M	19	151	G	1.00	12	19151G1.0012
R	Teaching and Training II	TEACH TRNG II	13.1206	M	19	151	G	1.00	22	19151G1.0022
C	Teaching and Training Advanced Studies	TEACH TRNG AS	13.1206	M	19	151	E	1.00	11	19151E1.0011
C	Industry-Recognized Credential-Teaching and Training	IRC TEACH TRNG	13.1206	M	19	199	E	1.00	11	19199E1.0011

Notes:

Teaching and Training matched with: SCED 19151 Teaching Profession

Industry-Recognized Credential-Early Childhood Education matched with: SCED 19199 Education-Other

CTE Work Experience – Education

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
C	CTE Work Experience – Education	WORK EXPER EDUC	**99.0026**	M	19	198	G	1.00	11	19198G1.0011

Notes:

Work Experience – Education matched with: SCED 19198 Education—Workplace Experience

Program Alignment for
Energy and Natural Resources

The Energy and Natural Resources Career Cluster spans careers in traditional and renewable fuel production, power generation and energy conversion, utilities, environmental preservation, ecological research, and resource extraction. These industries focus on efficient and responsible resource management, including conservation, transmission, distribution and storage, to minimize environmental impacts and meet global energy needs. Careers in this Cluster are dedicated to creating a sustainable future, innovating cleaner energy solutions, and preserving our planet's natural resources for generations to come.

- Energy Technologies

Program Descriptions
Energy and Natural Resources

Energy Technologies (formerly in Science, Technology, Engineering, and Mathematics cluster)

The Energy Technologies program introduces students to the power industry. Students will gain an understanding of the engineering design process, various energy sources, energy forms, energy principles, efficiency concepts, electricity, and electrical principles. In addition, construct energy systems, model the uses of various sources of energy and energy efficiency, and conservation will be explored in this program.

Program Course Sequences
Energy and Natural Resources

Program Name	Course Sequence	State Skill Standards*
Energy Technologies	**Core Course Sequence** Energy Technologies I Energy Technologies II **Complementary Course(s)** Energy Technologies Advanced Studies Energy Technologies Practices CTE Work Experience – Energy and Natural Resources Industry Recognized Credentials- Energy Technologies	Energy Technologies Program of Study with Complementary Standards

* 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 course – see individual course descriptions for requirements and corequisites.

Course Descriptions
Energy and Natural Resources

Energy Technologies I

Prerequisite: None

This course introduces students to the energy industry. Students will gain an understanding of safety procedures, equipment, tools, basic electricity principles, and the various energy sources. Students will also explore environmental impacts and availability of energy resources. Students will apply the engineering design process to technologies to explore energy principles. Students will be introduced to career opportunities and necessary job skills related to the various forms of energy.

Energy Technologies II

Prerequisite: Energy Technologies I

This course is a continuation of Energy Technologies I. This course provides intermediate energy technologies students with instruction in energy forms, energy principles, efficiency concepts, building systems, and policies. Students will engage in the use and development of energy conversion systems. Areas of emphasis include solar energy, wind energy, and geothermal energy resources. The appropriate use of technology and industry-standard equipment is an integral part of this course.

Energy Technologies Advanced Studies

Prerequisite: Completion of Energy Technologies Program of Study

This course is offered to students who have completed all content standards in the Energy Technologies program of study and desire 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.

Energy Technologies Practices

Prerequisite: Completion of Energy Technologies Program of Study

This course is offered to students who have completed all content standards in the Energy Technologies program of study. Students explore in-depth study of power distribution systems, electrical circuits, and electrical measurements. Applied knowledge of energy technologies includes calculating series resistance, parallel resistance, and the function, operation, testing, and resetting of a circuit breaker. Electrical control wiring, grounding control systems, the introduction to transformers, and ways to identify energy efficiency and conservation are additional topics of exploration in this course.

Industry-Recognized Credential – Energy Technologies

Prerequisite: Completion of Energy Technologies Program of Study

This course is offered to students who have completed all content standards in the Energy Technologies program of study and desire to pursue an Industry-Recognized Credential that aligns with the standards and skills associated with the Energy Technologies Program of Study. This course is designed to expand the students' opportunities to pursue certification aligned with employment standards in the industry aligned with this program of study. The supervising teacher will provide instruction aligned with the certification requirements, monitor progress toward certification, and provide the students with appropriate testing or certification opportunities associated with the intended Industry-Recognized Credential that is the subject of the course. IRC's earned by students must be on the list of industry-recognized credentials identified by the Governor's Office of Workforce Innovation (OWINN). This course may be repeated for additional instruction and credit.

CTE Work Experience –Energy and Natural Resources

Prerequisite: Completion of Level 2 course in the qualifying program of study

This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth CTE 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.

Course Data Information - Energy and Natural Resources

Energy Technologies

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
R	Energy Technologies I	ENERGY TECH I	15.1701	F	03	012	G	1.00	12	03012G1.0012
R	Energy Technologies II	ENERGY TECH II	15.1701	F	03	012	G	1.00	22	03012G1.0022
C	Energy Technologies Advanced Studies	ENERGY TECH AS	15.1701	F	03	012	E	1.00	11	03012E1.0011
C	Energy Technologies Practices	ENERGY TECH PRAC	14.4801	F	03	012	E	1.00	11	03012E1.0011
C	Industry-Recognized Credential-Energy Technologies	IRC ENGERY TECH	15.1701	F	18	549	E	1.00	11	18549E1.0011

Notes:

Energy Technologies matched with:	SCED 03012 Energy and the Environment
Energy Technologies Practices matched with:	SCED 03012 Energy and the Environment
Industry-Recognized Credential-Energy Technologies matched with:	SCED 18549 Natural Resources—Other
	(old 21199 Engineering and Technology—Other)

CTE Work Experience –Energy and Natural Resources

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
C	CTE Work Experience - Energy and Natural Resources	WORK EXPER ENERGY	99.0027	F	18	548	G	1.00	11	18548G1.0011

Notes:

Work Experience - Energy and Natural Resources matched with:	SCED 18548 Natural Resources—Workplace Experience

Program Alignment for Financial Services

The Financial Services Career Cluster encompasses careers in managing and advising financial transactions, including banking, lending, corporate finance, debt management, accounting, insurance, and real estate. These careers contribute to economic stability and growth by supporting the financial health of individuals and organizations.

- Accounting and Finance

Program Descriptions
Financial Services

Accounting and Finance (formerly in Finance cluster)

The Accounting and Finance program provides students with a foundation in accounting, financial information, and financial business decision making. Areas of study include laws and regulations, evaluating financial information, banking, investment, economics, and risk management concepts.

Program Course Sequences
Financial Services

Program Name	Course Sequence	State Skill Standards*
Accounting and Finance	**Core Course Sequence** Accounting and Finance I Accounting and Finance II **Complementary Course(s)** Accounting and Finance Advanced Studies CTE Work Experience – Financial Services Industry-Recognized Credential – Accounting and Finance	Accounting and Finance Standards

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

Course Descriptions
Financial Services

Accounting and Finance I

Prerequisite: None

Students will learn introductory accounting processes and occupational skills in accounting such as recording business transactions, preparing financial statements, maintaining cash controls, and calculating financial ratios. Students will be introduced to and apply generally accepted accounting principles. Topics will also include regulations related to the banking and finance industries, and 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.

Accounting and Finance II

Prerequisite: Accounting and Finance I

This course is a continuation of Accounting and Finance I. 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 analysis of financial reports such as profit and loss statements, cash flow statements and pro forma statements. Ethics and regulations will be 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.

Accounting and Finance Advanced Studies

Prerequisite: Completion of Accounting and Finance Program of Study

This course is offered to students who have completed all content standards in the Accounting and Finance program of study and desire 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.

Industry-Recognized Credential – Accounting and Finance

Prerequisite: Completion of Accounting and Finance Program of Study

This course is offered to students who have completed all content standards in the Accounting and Finance program of study and desire to pursue an Industry-Recognized Credential that aligns with the standards and skills associated with the Accounting and Finance Program of Study. This course is designed to expand the students' opportunities to pursue certification aligned with employment standards in the industry aligned with this program of study. The supervising teacher will provide instruction aligned with the certification requirements, monitor progress toward certification, and provide the students with appropriate testing or certification opportunities associated with the intended Industry-Recognized Credential that is the subject of the course. IRC's earned by students must be on the list of industry-recognized credentials identified by the Governor's Office of Workforce Innovation (OWINN). This course may be repeated for additional instruction and credit.

CTE Work Experience – Financial Services

Prerequisite: Completion of Level 2 course in the qualifying program of study

This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth CTE 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.

Course Data Information - Financial Services

Accounting and Finance

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
R	Accounting and Finance I	ACCT FINANCE I	52.0304	N	12	104	G	1.00	12	12104G1.0012
R	Accounting and Finance II	ACCT FINANCE II	52.0304	N	12	104	G	1.00	22	12104G1.0022
C	Accounting and Finance Advanced Studies	ACCT FINANCE AS	52.0304	N	12	104	E	1.00	11	12104E1.0011
C	Industry-Recognized Credential-Accounting and Finance	IRC ACCT FINANCE	52.0304	N	12	149	E	1.00	11	12149E1.0011

Notes:

Accounting and Finance matched with: SCED 12104 Accounting

Industry-Recognized Credential—Accounting and Finance matched with: SCED 12149 Finance—Other

CTE Work Experience – Finance

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
C	CTE Work Experience – Financial Services	WORK EXPER FINANCE	**99.0028**	N	12	148	G	1.00	11	12148G1.0011

Notes:

Work Experience – Finance matched with: SCED 12148 Finance—Workplace Experience

Program Alignment for Healthcare and Human Services

The Healthcare and Human Services Career Cluster promotes whole health in individuals and communities through a diverse array of services. This sector includes technical, mental, and therapeutic services and personal care, supported by medical and social sciences. By addressing social determinants of health and leveraging health data and science, this Cluster aims to enhance the overall health and resilience of individuals, families, and communities.

- Biomedical
- Community Health Science
- Cosmetology
- Dental Science
- Emergency Medical Technician
- Human and Social Services
- Medical Assisting
- Nursing Assistant
- Practical Nursing
- Sports Medicine

Program Descriptions
Healthcare and Human Services

Biomedical (formerly in Health Science cluster)

The Biomedical program provides students with the knowledge and skills in inquiry science, disease exploration, human body systems, and biomedical engineering. Areas of study include infectious and genetic diseases, molecular biology, oncology, metabolism, homeostasis, and exercise physiology.

Community Health Science (formerly in Health Science cluster)

The Community Health Science program provides students with the knowledge and skills in inquiry science, disease exploration, anatomy and physiology, and public and community health. Areas of study include epidemiology, pathophysiology, health literacy, biostatistics, and environmental risks.

Cosmetology (formerly in Human Services)

Schools must be approved by the governing State Agency in order to offer this program

The Cosmetology program is designed to prepare students for the Nevada State Board of Cosmetology Licensing Exam and to meet the 1,800-hour requirement for licensure. Students have an opportunity to earn 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.

Dental Science (formerly in Health Science cluster)

The Dental Science program 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.

Human and Social Services (formerly in Human Services)

The Human and Social Services program provides students with opportunities to learn about occupations in Human Services. Areas of study include Consumer Services, Counseling and Mental Health Services, Early Childhood Development and Services, Family and Community Services and Personal Care Services.

Medical Assisting (formerly in Health Science cluster)

The Medical Assisting program provides students with the knowledge and skills required for entry level into administrative and clinical medical assisting. Areas of study include diversity, awareness, pharmacology, health information management, and laboratory procedures.

Nursing Assistant (formerly in Health Science cluster)

Schools must be approved by the governing State Agency in order to offer this program

The Nursing Assistant program provides students with the knowledge and skills required for entry into the healthcare field. Students completing the didactic and clinical practicum are eligible for the Nevada State Board of Nursing Certifying Exam as a Nursing Assistant.

Practical Nursing (formerly in Health Science cluster)

Schools must be approved by the governing State Agency in order to offer this program

The Practical Nursing program provides students with the knowledge and skills required for entry into the healthcare field. The program provides skills in patient care, pharmacology, family nursing, psychosocial behavior, and other designated areas of nursing. Students completing the didactic and clinical practicum are eligible for the Nevada State Board of Nursing transition into a Licensed Practical Nurse.

Sports Medicine (formerly in Health Science cluster)

The Sports Medicine program provides students with an introduction to sports medicine techniques and processes. The program provides the primary skills and knowledge in athletic training and sports medicine-related fields. The areas of study include physical fitness, human anatomy and physiology, injury evaluation and prevention, and rehabilitation.

Program Course Sequences
Healthcare and Human Services

Program Name	Course Sequence	State Skill Standards*
Biomedical	**Core Course Sequence** Biomedical I Biomedical II Biomedical III **Complementary Course(s)** Biomedical Advanced Studies CTE Work Experience – Healthcare and Human Services	Biomedical Standards
Community Health Science	**Core Course Sequence** Principles of Health Science Community Health Science **Complementary Course(s)** Community Health Science Advanced Studies Behavioral Health and Wellness for Community Health Science Health Information Management for Community Health Science Pharmacy Practice for Community Health Science CTE Work Experience – Healthcare and Human Services Industry-Recognized Credential – Community Health Science	Principles of Health Science Standards *and* Community Health Science Program of Study with Complementary Course Standards
Cosmetology	**Core Course Sequence** Principles of Cosmetology Cosmetology I Cosmetology II **Complementary Course(s)** CTE Work Experience – Healthcare and Human Services Industry-Recognized Credential – Cosmetology	Cosmetology Standards
Dental Science	**Core Course Sequence** Dental Science I Dental Science II **Complementary Course(s)** Dental Science Advanced Studies CTE Work Experience – Healthcare and Human Services Industry-Recognized Credential – Dental Science	Dental Science Standards
Human and Social Services	**Core Course Sequence** Human and Social Services I Human and Social Services II **Complementary Course(s)** Human and Social Services Advanced Studies Behavioral Health and Wellness for Human and Social Services CTE Work Experience – Healthcare and Human Services Industry-Recognized Credential –Human and Social Services	Human and Social Services Program of Study with Complementary Course Standards

* 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 course – see individual course descriptions for requirements and corequisites.

Program Course Sequences
Healthcare and Human Services (continued)

Program Name	Course Sequence	State Skill Standards*
Medical Assisting	**Core Course Sequence** Principles of Health Science Medical Assisting **Complementary Course(s)** Medical Assisting LAB ** Medical Assisting Advanced Studies Health Information Management for Medical Assisting Pharmacy Practice for Medical Assisting CTE Work Experience – Healthcare and Human Services Industry-Recognized Credential – Medical Assisting	Principles of Health Science Standards *and* Medical Assisting Program of Study with Complementary Course Standards
Nursing Assistant	**Core Course Sequence** Principles of Health Science Nursing Assistant **Complementary Course(s)** Nursing Assistant LAB ** Health Information Management for Nursing Assistant Pharmacy Practice for Nursing Assistant CTE Work Experience – Healthcare and Human Services Industry-Recognized Credential – Nursing Assistant	Principles of Health Science Standards *and* Nursing Assistant Program of Study with Complementary Course Standards
Practical Nursing	**Core Course Sequence** Practical Nursing I Practical Nursing II **Complementary Course(s)** Practical Nursing II LAB ** Practical Nursing Advanced Studies CTE Work Experience – Healthcare and Human Services	Practical Nursing Standards
Sports Medicine	**Core Course Sequence** Principles of Health Science Sports Medicine **Complementary Course(s)** Sports Medicine Advanced Studies CTE Work Experience – Healthcare and Human Services Industry-Recognized Credential – Sports Medicine	Principles of Health Science Standards *and* Sports Medicine Standards

* 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 course – see individual course descriptions for requirements and corequisites.

Course Descriptions
Healthcare and Human Services

Biomedical I

Prerequisite: None

This course introduces students to advanced science courses related to medical fields. Areas of exploration will include infectious, genetic, and lifestyle diseases that are dealt with in the biomedical professions. Topics include medical terminology, nutrition, mitosis, and microbiology. 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.

Biomedical II

Prerequisite: Biomedical I

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 body systems, metabolism, exercise physiology, immunology, and homeostasis. The students will be introduced to the interactions of the human body and design experiments to investigate the structure and function. Topics include histology, sensory response, physiology, ATP, and wellness. The appropriate use of technology and industry-standard equipment is an integral part of this course.

Biomedical III

Prerequisite: Biomedical II

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 pathogen defense, molecular biology, oncology, and biomedical engineering. Topics include community health, genetics, cancer, and biotechnology. 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.

Biomedical Advanced Studies

Prerequisite: Completion of Biomedical Program of Study

This course is offered to students who have completed all content standards in the Biomedical program of study and desire 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.

Community Health Science

Prerequisite: Principles of Health Science

This course is designed to provide students with knowledge and skills required for entry into the healthcare field that includes community health worker, biostatistics, epidemiology, public health, substance abuse, person health, cellular and molecular biology, and environmental health. 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.

Community Health Science Advanced Studies

Prerequisite: Completion of Community Health Science Program of Study

This course is offered to students who have completed all content standards in the Community Health Science program of study and desire 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.

Behavioral Health and Wellness for Community Health Science

Prerequisite: Completion of Human and Social Services Program of Study

This course is offered to students who have completed all content standards in the Human and Social Services program of study. This course introduces the study of behavioral health and wellness. Emphasis is placed on the exploration of the behavioral healthcare systems, ethical and legal responsibilities, importance of self-care, and basic anatomy and mental health disorders.

Health Information Management for Community Health Science

Prerequisite: Completion of Community Health Science Program of Study

This course is offered to students who have completed all content standards in the Community Health Science program of study. The Health Information Management 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 HIPPA and responsibilities of medical office staff, utilizing a computer program to maintain patient files.

Pharmacy Practice for Community Health Science

Prerequisite: Completion of Community Health Science Program of Study

This course is offered to students who have completed all content standards in the Community Health Science program of study. The Pharmacy Practice course provides students with an introduction to practices and fundamentals of pharmacology. Areas of study include pharmacy, calculations, routes, inventory management, and factors affecting drug activity.

Industry-Recognized Credential – Community Health Science

Prerequisite: Completion of Community Health Science Program of Study

This course is offered to students who have completed all content standards in the Community Health Science program of study and desire to pursue an Industry-Recognized Credential that aligns with the standards and skills associated with the Community Health Science Program of Study. This course is designed to expand the students' opportunities to pursue certification aligned with employment standards in the industry aligned with this program of study. The supervising teacher will provide instruction aligned with the certification requirements, monitor progress toward certification, and provide the students with appropriate testing or certification opportunities associated with the intended Industry-Recognized Credential that is the subject of the course. IRC's earned by students must be on the list of industry-recognized credentials identified by the Governor's Office of Workforce Innovation (OWINN). This course may be repeated for additional instruction and credit.

Cosmetology I

Prerequisite: Principles of Cosmetology

Schools must be approved by the governing State Agency in order to offer this course

The six-credit-block course is designed to prepare students for the Nevada State Board of Cosmetology Licensing Exam and to meet the 1,800-hour requirement for licensure. Students have an opportunity to earn 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.

Principles of Cosmetology

Prerequisite: None

Schools must be approved by the governing State Agency in order to offer this course

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.

Cosmetology II

Prerequisite: Cosmetology I

Schools must be approved by the governing State Agency in order to offer this course

The six-credit-block course is designed to prepare students for the Nevada State Board of Cosmetology Licensing Exam and to meet the 1,800-hour requirement for licensure. Students have an opportunity to earn 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. A goal of the program is to provide a real-work environment where students work on the public to practice and master those skills necessary for success in the workplace. Emphasis is also placed on job seeking/keeping skills, such as effective communication, customer service, teamwork, filling out a job application, building a resume, and interviewing techniques. 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.

Industry-Recognized Credential – Cosmetology

Prerequisite: Completion of Cosmetology Program of Study

This course is offered to students who have completed all content standards in the Cosmetology program of study and desire to pursue an Industry-Recognized Credential that aligns with the standards and skills associated with the Cosmetology Program of Study. This course is designed to expand the students' opportunities to pursue certification aligned with employment standards in the industry aligned with this program of study. The supervising teacher will provide instruction aligned with the certification requirements, monitor progress toward certification, and provide the students with appropriate testing or certification opportunities associated with the intended Industry-Recognized Credential that is the subject of the course. IRC's earned by students must be on the list of industry-recognized credentials identified by the Governor's Office of Workforce Innovation (OWINN). This course may be repeated for additional instruction and credit.

Dental Science I

Prerequisite: None

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.

Dental Science II

Prerequisite: Dental Science I

This course is a continuation of Dental Science I. This course allows intermediate dental science students to develop their knowledge and skills learned in Dental Science 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.

Dental Science Advanced Studies

Prerequisite: Completion of Dental Science Program of Study

This course is offered to students who have completed all content standards in the Dental Science program of study and desire 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.

Industry-Recognized Credential – Dental Science

Prerequisite: Completion of Dental Science Program of Study

This course is offered to students who have completed all content standards in the Dental Science program of study and desire to pursue an Industry-Recognized Credential that aligns with the standards and skills associated with the Dental Science Program of Study. This course is designed to expand the students' opportunities to pursue certification aligned with employment standards in the industry aligned with this program of study. The supervising teacher will provide instruction aligned with the certification requirements, monitor progress toward certification, and provide the students with appropriate testing or certification opportunities associated with the intended Industry-Recognized Credential that is the subject of the course. IRC's earned by students must be on the list of industry-recognized credentials identified by the Governor's Office of Workforce Innovation (OWINN). This course may be repeated for additional instruction and credit.

Human and Social Services I

Prerequisite: None

This course provides students with an introduction to Human Services professions. This course addresses the roles and responsibilities, skills, behaviors, and knowledge needed to provide services in a variety of careers. The appropriate use of technology and industry-standard equipment is an integral part of this course. Students will begin to develop a career portfolio.

Human and Social Services II

Prerequisite: Human and Social Services I

This course is a continuation of Human and Social Services I. Students will continue to develop skills and strategies for social services-based careers. Project-based learning experiences will include planning and implementing activities following requirements of a variety of workplace environments. The appropriate use of technology and industry-standard equipment is an integral part of this course. Students will expand their career portfolio.

Human and Social Services Advanced Studies

Prerequisite: Completion of Human and Social Services Program of Study

This course is offered to students who have completed all content standards in the Human and Social Services program of study and desire 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.

Behavioral Health and Wellness for Human and Social Services

Prerequisite: Completion of Human and Social Services Program of Study

This course is offered to students who have completed all content standards in the Human and Social Services program of study. This course introduces the study of behavioral health and wellness. Emphasis is placed on the exploration of the behavioral healthcare systems, ethical and legal responsibilities, importance of self-care, and basic anatomy and mental health disorders.

Industry-Recognized Credential – Human and Social Services

Prerequisite: Completion of Human and Social Services Program of Study

This course is offered to students who have completed all content standards in the Human and Social Services program of study and desire to pursue an Industry-Recognized Credential that aligns with the standards and skills associated with the Human and Social Services Program of Study. This course is designed to expand the students' opportunities to pursue certification aligned with employment standards in the industry aligned with this program of study. The supervising teacher will provide instruction aligned with the certification requirements, monitor progress toward certification, and provide the students with appropriate testing or certification opportunities associated with the intended Industry-Recognized Credential that is the subject of the course. IRC's earned by students must be on the list of industry-recognized credentials identified by the Governor's Office of Workforce Innovation (OWINN). This course may be repeated for additional instruction and credit.

Medical Assisting

Prerequisite: Principles of Health Science

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.

Medical Assisting LAB

Corequisite: Concurrent enrollment in Medical Assisting

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.

Medical Assisting Advanced Studies

Prerequisite: Completion of Medical Assisting Program of Study

This course is offered to students who have completed all content standards in the Medical Assisting program of study and desire 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.

Health Information Management for Medical Assisting

Prerequisite: Completion of Medical Assisting Program of Study

This course is offered to students who have completed all content standards in the Medical Assisting program of study. The Health Information Management 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 HIPPA and responsibilities of medical office staff, utilizing a computer program to maintain patient files.

Pharmacy Practice for Medical Assisting

Prerequisite: Completion of Medical Assisting Program of Study

This course is offered to students who have completed all content standards in the Medical Assisting program of study. The Pharmacy Practice course provides students with an introduction to practices and fundamentals of pharmacology. Areas of study include pharmacy, calculations, routes, inventory management, and factors affecting drug activity.

Industry-Recognized Credential – Medical Assisting

Prerequisite: Completion of Medical Assisting Program of Study

This course is offered to students who have completed all content standards in the Medical Assisting program of study and desire to pursue an Industry-Recognized Credential that aligns with the standards and skills associated with the Medical Assisting Program of Study. This course is designed to expand the students' opportunities to pursue certification aligned with employment standards in the industry aligned with this program of study. The supervising teacher will provide instruction aligned with the certification requirements, monitor progress toward certification, and provide the students with appropriate testing or certification opportunities associated with the intended Industry-Recognized Credential that is the subject of the course. IRC's earned by students must be on the list of industry-recognized credentials identified by the Governor's Office of Workforce Innovation (OWINN). This course may be repeated for additional instruction and credit.

Nursing Assistant

Prerequisite: Principles of Health Science

Schools must be approved by the governing State Agency in order to offer this course

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.

Nursing Assistant LAB

Corequisite: Concurrent enrollment in Nursing Assistant

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.

Health Information Management for Nursing Assistant

Prerequisite: Completion of Nursing Assistant Program of Study

This course is offered to students who have completed all content standards in the Nursing Assistant program of study. The Health Information Management 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 HIPPA and responsibilities of medical office staff, utilizing a computer program to maintain patient files.

Pharmacy Practice for Nursing Assistant

Prerequisite: Completion of Nursing Assistant Program of Study

This course is offered to students who have completed all content standards in the Nursing Assistant program of study. The Pharmacy Practice course provides students with an introduction to practices and fundamentals of pharmacology. Areas of study include pharmacy, calculations, routes, inventory management, and factors affecting drug activity.

Industry-Recognized Credential – Nursing Assistant

Prerequisite: Completion of Nursing Assistant Program of Study

This course is offered to students who have completed all content standards in the Nursing Assistant program of study and desire to pursue an Industry-Recognized Credential that aligns with the standards and skills associated with the Nursing Assistant Program of Study. This course is designed to expand the students' opportunities to pursue certification aligned with employment standards in the industry aligned with this program of study. The supervising teacher will provide instruction aligned with the certification requirements, monitor progress toward certification, and provide the students with appropriate testing or certification opportunities associated with the intended Industry-Recognized Credential that is the subject of the course. IRC's earned by students must be on the list of industry-recognized credentials identified by the Governor's Office of Workforce Innovation (OWINN). This course may be repeated for additional instruction and credit.

Practical Nursing I

Prerequisite: None

Schools must be approved by the governing State Agency in order to offer this course

This course introduces the principles and procedures employed in nursing. Students will practice nursing and patient role and responsibilities, implement pharmacological therapies, study anatomy and physiology, and will learn how to provide a safe and effective care environment. Students will compare career fields and related careers to develop a personal perspective and an institutional professional growth plan to develop team building and leadership skills related to nursing.

Practical Nursing II

Prerequisite: Practical Nursing I

Schools must be approved by the governing State Agency in order to offer this course

This course is a continuation of Practical Nursing I. This course provides nursing students with instruction in advanced techniques and critical thinking. This course provides instruction in the practical areas of clinical judgement, psychosocial integrity, physiological development, family nursing, and the transition to a licensed practical nurse. The appropriate use of technology and industry-standard equipment is an integral part of this course.

Practical Nursing II LAB

Corequisite: Concurrent enrollment in Practical Nursing II

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.

Practical Nursing Advanced Studies

Prerequisite: Completion of Practical Nursing Program of Study

This course is offered to students who have completed all content standards in the Practical Nursing program of study and desire 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.

Sports Medicine

Prerequisite: Principles of Health Science

This course is designed to introduce students to the field of sports medicine. It will provide students with the opportunity to explore athletic training and sports medicine related fields. Students will receive instruction in sports medicine terminology, anatomy and physiology, kinesiology, injury evaluation and prevention procedures, and careers in sports medicine. Students will demonstrate skills in first aid and sports injury management and rehabilitation. The appropriate use of technology and industry-standard equipment is an integral part of the course.

Sports Medicine Advanced Studies

Prerequisite: Completion of Sports Medicine Program of Study

This course is offered to students who have completed all content standards in a program and desire 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.

Industry-Recognized Credential – Sports Medicine

Prerequisite: Completion of Sports Medicine Program of Study

This course is offered to students who have completed all content standards in the Sports Medicine program of study and desire to pursue an Industry-Recognized Credential that aligns with the standards and skills associated with the Sports Medicine Program of Study. This course is designed to expand the students' opportunities to pursue certification aligned with employment standards in the industry aligned with this program of study. The supervising teacher will provide instruction aligned with the certification requirements, monitor progress toward certification, and provide the students with appropriate testing or certification opportunities associated with the intended Industry-Recognized Credential that is the subject of the course. IRC's earned by students must be on the list of industry-recognized credentials identified by the Governor's Office of Workforce Innovation (OWINN). This course may be repeated for additional instruction and credit.

Principles of Health Science

Prerequisite: None

The 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. Students will demonstrate skills in cardiopulmonary resuscitation (CPR) and first aid. The appropriate use of technology and industry-standard equipment is an integral part of this course.

CTE Work Experience – Healthcare and Human Services

Prerequisite: Completion of Level 2 course in the qualifying program of study

This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth CTE 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.

Course Data Information - Healthcare and Human Services

Biomedical

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
R	Biomedical I	BIOMED I	26.0102	N	14	255	G	1.00	13	14255G1.0013
R	Biomedical II	BIOMED II	26.0102	N	14	255	G	1.00	23	14255G1.0023
R	Biomedical III	BIOMED III	26.0102	N	14	255	G	1.00	33	14255G1.0033
C	Biomedical Advanced Studies	BIOMED AS	26.0102	N	14	255	E	1.00	11	14255E1.0011

Notes:

Biomedical matched with:	SCED 14255 Biomedical Innovation

Community Health Science

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
R	Principles of Health Science	PRN HEALTH SCI	51.0000	N	14	002	G	1.00	12	14002G1.0012
R	Community Health Science	CMTY HEALTH SCI	51.2208	N	08	053	G	1.00	22	08053G1.0022
C	Community Health Science Advanced Studies	CMTY HEALTH SCI AS	51.2208	N	08	053	E	1.00	11	08053E1.0011
C	Behavioral Health and Wellness for Community Health Science	BEHAV HLTH WLNS CHS	51.1599	N	19	990	E	1.00	11	19990G1.0011
C	Health Information Management for Community Health Science	HLTH INFO CHS	51.0707	M	14	157	E	1.00	11	14157E1.0011
C	Pharmacy Practice for Community Health Science	PHARM CHS	51.0805	M	14	152	E	1.00	11	14152E1.0011
C	Industry-Recognized Credential-Community Health Science	IRC CMTY HEALTH SCI	51.2208	N	14	999	E	1.00	11	14999E1.0011

Notes:

Principles of Health Science matched with:	SCED 14002 Health Care Occupations—Comprehensive
Community Health Science matched with:	SCED 08053 Community Health
Behavioral Health and Wellness for Community Health Science matched with:	SCED 19990 Human Services-Unused Code
Health Information Management for Community Health Science matched with:	SCED 14157 Health Informatics and Data Management
Pharmacy Practice for Community Health Science matched with:	SCED 14152 Pharmacy Assisting
Industry-Recognized Credential-Community Health Science matched with:	SCED 14999 Health Care Sciences-Other

Cosmetology

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
R	Principles of Cosmetology	PRIN COSMO	12.0401	M	19	101	G	1.0	13	19101G1.0013
R	Cosmetology I	COSMO I	12.0401	M	19	101	G	**6.0**	23	19101G6.0023
R	Cosmetology II	COSMO II	12.0401	M	19	101	G	**6.0**	33	19101G6.0033
C	Industry-Recognized Credential-Cosmetology	IRC COSMO	12.0401	M	19	999	E	1.00	11	19999E1.0011

Notes:

Cosmetology matched with: SCED 19101 Cosmetology—Licensing

Industry-Recognized Credential-Cosmetology matched with: SCED 19999 Human Services—Other

*Cosmetology 6.0 unit credit course represents multiple class periods in one day.

Dental Science

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
R	Dental Science I	DENTAL SCI I	51.0601	M	14	054	G	1.00	12	14054G1.0012
R	Dental Science II	DENTAL SCI II	51.0601	M	14	054	G	1.00	22	14054G1.0022
C	Dental Science Advanced Studies	DENTAL SCI AS	51.0601	M	14	054	E	1.00	11	14054E1.0011
C	Industry-Recognized Credential-Dental Science	IRC DENTAL SCI	51.0601	M	14	999	E	1.00	11	14999E1.0011

Notes:

Dental Science matched with: SCED 14054 Dental Science

Industry-Recognized Credential-Dental Science matched with: SCED 14999 Health Care Sciences-Other

Nevada Career and Technical Education Course Catalog 2026-27

Human and Social Services

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
R	Human and Social Services I	HSS I	13.1101	M	19	301	G	1.00	12	19301G1.0012
R	Human and Social Services II	HSS II	13.1101	M	19	301	G	1.00	22	19301G1.0022
C	Human and Social Services Advanced Studies	HSS AS	13.1101	M	19	301	E	1.00	11	19301E1.0011
C	Behavioral Health and Wellness for Human and Social Services	BEHAV HLTH WLNS HSS	51.1599	N	19	990	E	1.00	11	19990G1.0011
C	Industry-Recognized Credential-Human and Social Services	IRC HSS	13.1101	M	19	999	E	1.00	11	19999E1.0011

Notes:

Human and Social Services matched with: SCED 19301 Counseling and Mental Health

Behavioral Health and Wellness for Community Health Science matched with: SCED 19990 Human Services-Unused Code

Industry-Recognized Credential-Human and Social Services matched with: SCED 19999 Human Services--Other

Medical Assisting

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
R	Principles of Health Science	PRN HEALTH SCI	51.0000	M	14	002	G	1.00	12	14002G1.0012
R	Medical Assisting	MEDICAL ASST	51.0801	M	14	151	G	1.00	22	14151G1.0022
C**	Medical Assisting LAB	MEDICAL ASST L	51.0801	M	14	151	E	1.00	22	14151E1.0022
C	Medical Assisting Advanced Studies	MEDICAL ASST AS	51.0801	M	14	151	E	1.00	11	14151E1.0011
C	Health Information Management for Medical Assisting	HLTH INFO MED ASST	51.0707	M	14	157	E	1.00	11	14157E1.0011
C	Pharmacy Practice for Medical Assisting	PHARM MED ASST	51.0805	M	14	152	E	1.00	11	14152E1.0011
C	Industry-Recognized Credential-Medical Assisting	IRC MEDICAL ASST	51.0801	M	14	999	E	1.00	11	14999E1.0011

Notes:

Principles of Health Science matched with: SCED 14002 Health Care Occupations—Comprehensive

Medical Assisting matched with: SCED 14151 Medical/Clerical Assisting

Health Information Management for Medical Assisting matched with: SCED 14157 Health Informatics and Data Management

Pharmacy Practice for Medical Assisting matched with: SCED 14152 Pharmacy Assisting

Industry-Recognized Credential-Medical Assisting matched with: SCED 14999 Health Care Sciences—Other

**Lab courses are to be taught concurrently with the associated level course (i.e., level two course with the level two lab course)

Nursing Assistant

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
R	Principles of Health Science	PRN HEALTH SCI	51.0000	M	14	002	G	1.00	12	14002G1.0012
R	Nursing Assistant	NURSING ASST	51.3902	M	14	051	G	1.00	22	14051G1.0022
C**	Nursing Assistant LAB	NURSING ASST LAB	51.3902	M	14	051	E	1.00	22	14051E1.0022
C	Health Information Management for Nursing Assistant	HLTH INFO NURSE	51.0707	M	14	157	E	1.00	11	14157E1.0011
C	Pharmacy Practice for Nursing Assistant	PHARM NURSE ASST	51.0805	M	14	152	E	1.00	11	14152E1.0011
C	Industry-Recognized Credential-Nursing Assistant	IRC NURSING ASST	51.3902	M	14	999	E	1.00	11	14999E1.0011

Notes:

Principles of Health Science matched with:	SCED 14002 Health Care Occupations—Comprehensive
Nursing Assistant matched with:	SCED 14051 Nursing Assistant
Health Information Management for Nursing Assistant matched with:	SCED 14157 Health Informatics and Data Management
Pharmacy Practice for Nursing Assistant matched with:	SCED 14152 Pharmacy Assisting
Industry-Recognized Credential- Nursing Assistant matched with:	SCED 14999 Health Care Sciences—Other

**Lab courses are to be taught concurrently with the associated level course (i.e., level two course with the level two lab course)

Practical Nursing

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
R	Practical Nursing I	PRAC NURS I	51.3901	M	14	052	G	1.00	12	14052G1.0012
R	Practical Nursing II	PRAC NURS II	51.3901	M	14	052	G	1.00	22	14052G1.0022
C	Practical Nursing II LAB	PRAC NURS II L	51.3901	M	14	052	E	1.00	22	14052E1.0022
C	Practical Nursing Advanced Studies	PRAC NURS AS	51.3901	M	14	052	E	1.00	11	14052E1.0011

Notes:

Practical Nursing matched with:	SCED 14052 Nursing LPN

Sports Medicine

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
R	Principles of Health Science	PRN HEALTH SCI	51.0000	N	14	002	G	1.00	12	14002G1.0012
R	Sports Medicine	SPORTS MED	51.0913	N	14	062	G	1.00	22	14062G1.0022
C	Sports Medicine Advanced Studies	SPORTS MED AS	51.0913	N	14	062	E	1.00	11	14062E1.0011
C	Industry-Recognized Credential-Sports Medicine	IRC SPORTS MED	51.0913	N	14	999	E	1.00	11	14999E1.0011

Notes:

Principles of Health Science matched with: SCED 14002 Health Care Occupations—Comprehensive
Sports Medicine matched with: SCED 14062 Sports Medicine
Industry-Recognized Credential- Nursing Assistant matched with: SCED 14999 Health Care Sciences—Other

CTE Work Experience – Healthcare and Human Services

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
C	CTE Work Experience – Healthcare and Human Services	WORK EXPER HLTH HU SERV	**99.0029**	N	14	298	G	1.00	11	14298G1.0011

Notes:

Work Experience - Healthcare and Human Services matched with: SCED 14298 Health Sciences—Workplace Experience

Program Alignment for Hospitality, Events, and Tourism

The Hospitality, Events, & Tourism Career Cluster encompasses a broad range of services and experiences related to food and beverage, lodging, travel, events, and conferences. This Cluster focuses on delivering quality customer service, memorable experiences, and seamless logistics to cater to the needs and preferences of guests, tourists, and event participants. The Cluster is characterized by its diversity, including everything from luxury hotels and international travel to local dining, cultural events, and business conferences, aiming to enhance the overall experience of visitors and attendees.

- Culinary Arts
- Hospitality and Tourism

Program Descriptions
Hospitality, Events, and Tourism

Culinary Arts (formerly in Hospitality and Tourism cluster)

The Culinary Arts program provides students with an introduction to the principles and techniques of commercial food production. Areas of study include basic skills in food handling, food and nutritional science, equipment technology, cooking methods, kitchen safety, sanitation procedures, and employability skills in environments that model industry standards.

Hospitality and Tourism (formerly in Hospitality and Tourism cluster)

The Hospitality and Tourism program provides students with an introduction to 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 in travel and tourism, hotel operations, food and beverage, and event sales and service.

Program Course Sequences
Hospitality, Events, and Tourism

Program Name	Course Sequence	State Skill Standards*
Culinary Arts	**Core Course Sequence** Culinary Arts I Culinary Arts II **Concurrent Course(s)** Culinary Arts II LAB ** **Complementary Course(s)** Culinary Arts Advanced Studies Baking and Pastry Nutrition for Culinary Arts CTE Work Experience – Hospitality and Tourism Industry-Recognized Credential – Culinary Arts	Culinary Arts Program of Study with Complementary Course Standards
Hospitality and Tourism	**Core Course Sequence** Hospitality and Tourism I Hospitality and Tourism II **Concurrent Course(s)** Hospitality and Tourism II LAB ** **Complementary Course(s)** Hospitality and Tourism Advanced Studies CTE Work Experience – Hospitality and Tourism Industry-Recognized Credential –Hospitality and Tourism	Hospitality and Tourism Standards

* 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 course – see individual course descriptions for requirements and corequisites.

Course Descriptions
Hospitality, Events, and Tourism

Culinary Arts I

Prerequisite: None

This course provides students with an introduction to the principles and techniques of commercial food production and the exploration of career and technical student organizations. The classroom is patterned after industry with emphasis on food related careers. Students acquire basic skills in food handling, food and nutritional science, equipment technology, cooking methods, kitchen safety, sanitation procedures, and employability skills. The appropriate use of technology and industry-standard equipment is an integral part of this course.

Culinary Arts II

Prerequisite: Culinary Arts I

This course is a continuation of Culinary Arts I. This course prepares 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. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education. The appropriate use of technology and industry-standard equipment is an integral part of this course.

Culinary Arts II LAB

Corequisite: Concurrent enrollment in Culinary Arts II

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.

Culinary Arts Advanced Studies

Prerequisite: Completion of Culinary Arts Program of Study

This course is offered to students who have completed all content standards in the Culinary Arts program of study and desire 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.

Baking and Pastry

Prerequisite: Completion of Culinary Arts Program of Study

This course is offered to students who have completed all content standards in the Culinary Arts program of study. The Baking and Pastry complementary course provides a study of the Baking and Pastry arts. Students explore baking terminology, tool and equipment use, formula conversions, functions of ingredients, and methods used in creating breads, pastries, cookies, cakes, and other desserts. The fundamentals of basic decorating skills are also covered. The appropriate use of technology and industry-standard equipment is an integral part of this course.

Nutrition for Culinary Arts

Prerequisite: Completion of Culinary Arts Program of Study

This course is offered to students who have completed all content standards in the Culinary Arts program of study. This course provides an introduction to the study of foods and nutrition. Emphasis is placed on the exploration of foods and meal planning in relation to nutrition science, fitness, the lifecycle, customs, and preparation techniques. Kitchen safety, sanitation, and resources management are integral parts of this course.

Industry-Recognized Credential – Culinary Arts

Prerequisite: Completion of Culinary Arts Program of Study

This course is offered to students who have completed all content standards in the Culinary Arts program of study and desire to pursue an Industry-Recognized Credential that aligns with the standards and skills associated with the Culinary Arts Program of Study. This course is designed to expand the students' opportunities to pursue certification aligned with employment standards in the industry aligned with this program of study. The supervising teacher will provide instruction aligned with the certification requirements, monitor progress toward certification, and provide the students with appropriate testing or certification opportunities associated with the intended Industry-Recognized Credential that is the subject of the course. IRC's earned by students must be on the list of industry-recognized credentials identified by the Governor's Office of Workforce Innovation (OWINN). This course may be repeated for additional instruction and credit.

Hospitality and Tourism I

Prerequisite: None

This course provides students with an introduction to the hospitality and tourism industry. Students will acquire a basic understanding of the industry sectors: lodging, food and beverage, recreation, amusement and attractions, and sales, catering, and convention services. Students also study business functions and the importance of guest service. The appropriate use of technology and industry-standard equipment is an integral part of this course.

Hospitality and Tourism II

Prerequisite: Hospitality and Tourism I

This course is a continuation of Hospitality and Tourism I, building on fundamental skills developed in the previous course. Students will receive additional training in all sectors of hospitality, including business functions and guest service. The appropriate use of technology and industry-standard equipment is an integral part of this course.

Hospitality and Tourism II LAB

Corequisite: Concurrent enrollment in Hospitality and Tourism II

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.

Hospitality and Tourism Advanced Studies

Prerequisite: Completion of Hospitality and Tourism Program of Study

This course is offered to students who have completed all content standards in the Hospitality and Tourism program of study and desire 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.

Industry-Recognized Credential – Hospitality and Tourism

Prerequisite: Completion of Hospitality and Tourism Program of Study

This course is offered to students who have completed all content standards in the Hospitality and Tourism program of study and desire to pursue an Industry-Recognized Credential that aligns with the standards and skills associated with the Hospitality and Tourism Program of Study. This course is designed to expand the students' opportunities to pursue certification aligned with employment standards in the industry aligned with this program of study. The supervising teacher will provide instruction aligned with the certification requirements, monitor progress toward certification, and provide the students with appropriate testing or certification opportunities associated with the intended Industry-Recognized Credential that is the subject of the course. IRC's earned by students must be on the list of industry-recognized credentials identified by the Governor's Office of Workforce Innovation (OWINN). This course may be repeated for additional instruction and credit.

CTE Work Experience – Hospitality, Events, and Tourism

Prerequisite: Completion of Level 2 course in the qualifying program of study

This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth CTE 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.

Course Data Information - Hospitality, Events, and Tourism

Culinary Arts

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
R	Culinary Arts I	CUL ARTS I	12.0503	F	16	053	G	1.00	12	16053G1.0012
R	Culinary Arts II	CUL ARTS II	12.0503	F	16	053	G	1.00	22	16053G1.0022
C**	Culinary Arts II LAB	CUL ARTS II L	12.0503	F	16	053	E	1.00	22	16053E1.0022
C	Culinary Arts Advanced Studies	CUL ARTS AS	12.0503	F	16	053	E	1.00	11	16053G1.0011
C	Baking and Pastry	BAKEP	12.0501	F	16	056	E	1.00	11	16056E1.0011
C	Nutrition for Culinary Arts	NUTRITION CULA	19.0501	M	19	252	E	1.00	11	19252E1.0011
C	Industry-Recognized Credential-Culinary Arts	IRC CUL ARTS	12.0503	F	16	999	E	1.00	11	16999E1.0011

Notes:

Culinary Arts matched with: SCED 16053 Food Service

Baking and Pastry matched with: SCED 16056 Culinary Art Specialty

Nutrition for Culinary Arts matched with: SCED 19252 Food Preparation and Health Management

Industry-Recognized Credential-Culinary Arts matched with: SCED 16999 Hospitality and Tourism—Other

**Lab courses are to be taught concurrently with the associated level course (i.e., level two course with the level two lab course)

Nevada Career and Technical Education Course Catalog 2026-27

Hospitality and Tourism

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
R	Hospitality and Tourism I	HOSPLTY TOUR I	52.0901	N	16	001	G	1.00	12	16001G1.0012
R	Hospitality and Tourism II	HOSPLTY TOUR II	52.0901	N	16	001	G	1.00	22	16001G1.0022
C**	Hospitality and Tourism II LAB	HOSPLTY TOUR II L	52.0901	N	16	001	E	1.00	22	16001E1.0022
C	Hospitality and Tourism Advanced Studies	HOSPLTY TOUR AS	52.0901	N	16	001	E	1.00	11	16001E1.0011
C	Industry-Recognized Credential Hospitality and Tourism	IRC HOSPLTY TOUR	52.0901	N	16	999	E	1.00	11	16999E1.0011

Notes:

Hospitality and Tourism matched with: SCED 16001 Exploration of Hospitality Careers

Industry-Recognized Credential-Hospitality and Tourism matched with: SCED 16999 Hospitality and Tourism—Other

**Lab courses are to be taught concurrently with the associated level course (i.e., level two course with the level two lab course)

CTE Work Experience – Hospitality, Events, and Tourism

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
C	CTE Work Experience – Hospitality, Events, and Tourism	WORK EXPER HOSP	99.0009	N	16	198	G	1.00	11	16198G1.0011

Notes:

Work Experience - Hospitality and Tourism matched with: SCED 16198 Travel and Tourism—Workplace Experience

Program Alignment for Management and Entrepreneurship

The Management and Entrepreneurship Career Cluster involves skills and occupations that are essential across all industries, focusing on business administration, operations optimization, strategic planning, workforce management, and entrepreneurship. It merges key areas such as data management and analysis, human resources, general operations, administrative support, project management, and organizational leadership. This Cluster ensures that businesses across all industries efficiently meet their goals, adapt to market changes, and maintain competitive advantage. By emphasizing entrepreneurship, this Cluster supports the creation of new ventures, driving economic growth and innovation and making it a cornerstone of modern economies.

- Business Management
- Office Management

Program Descriptions
Management and Entrepreneurship

Business Management (formerly in Business Management and Administration)

The Business Management program provides students with the overall principles of business management. Areas of study include economics, budgeting, human resource management, operations, strategic management, and financial-based decision making.

Office Management (formerly in Business Management and Administration)

Office Management focuses on careers that plan, organize, direct, and evaluate all or part of a business organization through the allocation and use of financial, human, and material resources.

Program Course Sequences
Management and Entrepreneurship

Program Name	Course Sequence	State Skill Standards*
Business Management	**Core Course Sequence** Principles of Business and Marketing Business Management I **Complementary Course(s)** Business Management Advanced Studies Business Entrepreneurship CTE Work Experience – Business Management and Administration Industry-Recognized Credential – Business Management	Business Management Program of Study with Complementary Course Standards
Office Management	**Core Course Sequence** Principles of Office and Logistics Management Office Management **Complementary Course(s)** Office Management Advanced Studies CTE Work Experience – Business Management and Administration Industry-Recognized Credential – Office Management	Office Management Standards

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

Course Descriptions
Management and Entrepreneurship

Principles of Business and Marketing

Prerequisite: None

This course is an entry-level course in the Business Management and 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 skills, and participate in career exploration and planning.

Business Management I

Prerequisite: Principles of Business and Marketing

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.

Business Management Advanced Studies

Prerequisite: Completion of Business Management Program of Study

This course is offered to students who have completed all content standards in a program and desire 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.

Business Entrepreneurship

Prerequisite: Completion of Business Management Program of Study

This course is offered to students who have completed all content standards in the Business Management program of study. The Entrepreneurship course is designed to introduce students to the nature and scope of entrepreneurship, the impact on market economies, marketing functions and economic concepts related to entrepreneurship. Business plan development is the key tool by which students will learn concepts. Personal traits and behaviors of successful entrepreneurs will also be examined.

Industry-Recognized Credential – Business Management

Prerequisite: Completion of Business Management Program of Study

This course is offered to students who have completed all content standards in the Business Management program of study and desire to pursue an Industry-Recognized Credential that aligns with the standards and skills associated with the Business Management Program of Study. This course is designed to expand the students' opportunities to pursue certification aligned with employment standards in the industry aligned with this program of study. The supervising teacher will provide instruction aligned with the certification requirements, monitor progress toward certification, and provide the students with appropriate testing or certification opportunities associated with the intended Industry-Recognized Credential that is the subject of the course. IRC's earned by students must be on the list of industry-recognized credentials identified by the Governor's Office of Workforce Innovation (OWINN). This course may be repeated for additional instruction and credit.

Principles of Office and Logistics Management

Prerequisite None

This course is for entry-level students in Office and Logistics Management and prepares students for jobs in an office or business setting with an emphasis in either office management or logistics management. Students will gain knowledge and proficiency of advanced web functions, word-processing applications, spreadsheet applications, presentation applications, and database applications as they are used in a business environment. Students will understand and abide by policies for technology.

Office Management

Prerequisite: Principles of Office and Logistics Management

This course is a continuation of the Office Management program and prepares students for work in an office or business environment. 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. Students will learn and apply advanced skills in office technology and software commonly used in today's work environment. Upon successful completion of this program, students will have acquired entry-level skills for employment in this field.

Office Management Advanced Studies

Prerequisite: Completion of Office Management Program of Study

This course is offered to students who have completed all content standards in the Office Management program of study and desire 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.

Industry-Recognized Credential – Office Management

Prerequisite: Completion of Office Management Program of Study

This course is offered to students who have completed all content standards in the Office Management program of study and desire to pursue an Industry-Recognized Credential that aligns with the standards and skills associated with the Office Management Program of Study. This course is designed to expand the students' opportunities to pursue certification aligned with employment standards in the industry aligned with this program of study. The supervising teacher will provide instruction aligned with the certification requirements, monitor progress toward certification, and provide the students with appropriate testing or certification opportunities associated with the intended Industry-Recognized Credential that is the subject of the course. IRC's earned by students must be on the list of industry-recognized credentials identified by the Governor's Office of Workforce Innovation (OWINN). This course may be repeated for additional instruction and credit.

CTE Work Experience – Business Management and Administration

Prerequisite: Completion of Level 2 course in the qualifying program of study

This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth CTE 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.

Course Data Information - Management and Entrepreneurship

Business Management

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
R	Principles of Business and Marketing	PRIN BUS MKTG	52.0101	F	12	051	G	1.00	12	12051G1.0012
R	Business Management I	BUS MGMT I	52.0201	F	12	052	G	1.00	22	12052G1.0022
C	Business Management Advanced Studies	BUS MGMT AS	52.0201	F	12	052	E	1.00	11	12052E1.0011
C	Business Entrepreneurship	BUS ENTREPRENEUR	52.0701	N	12	053	E	1.00	11	12053E1.0011
C	Industry-Recognized Credential-Business Management	IRC BUS MGMT	52.0201	F	12	999	E	1.00	11	12999E1.0011

Notes:

Principles of Business and Marketing matched with:	SCED 12051 Introductory Business
Business Management matched with:	SCED 12052 Business Management
Business Entrepreneurship matched with:	SCED 12053 Entrepreneurship
Industry-Recognized Credential-Business Management matched with:	SCED 12999 Business and Marketing—Other

Nevada Career and Technical Education Course Catalog 2026-27

Office Management

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
R	Principles of Office and Logistics Management	PRNOLM	52.0204	N	12	003	G	1.00	12	12003G1.0012
R	Office Management	OFFICE MGMT	52.0204	N	12	003	G	1.00	22	12003G1.0022
C	Office Management Advanced Studies	OFFICE MGMT AS	52.0204	N	12	003	E	1.00	11	12003E1.0011
C	Industry-Recognized Credential-Office Management	IRC OFFICE MGMT	52.0204	N	12	999	E	1.00	11	12999E1.0011

Notes:

Principles of Office and Logistics Management matched with: SCED 12003 Office and Administrative Technologies
Office Management matched with: SCED 12003 Office and Administrative Technologies
Industry-Recognized Credential-Office Management matched with: SCED 12999 Business and Management—Other

CTE Work Experience – Business Management and Administration

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
C	CTE Work Experience – Business Management and Administration	WORK EXPER BUS ADM	**99.0031**	F	12	998	G	1.00	11	12998G1.0011

Notes:

Work Experience – Business Management and Administration matched with: SCED 12998 Business and Marketing—Workplace Experience

Program Alignment for Marketing and Sales

The Marketing and Sales Career Cluster focuses on promoting products, understanding consumer needs, engaging with communities, and driving sales. It integrates digital marketing, data analysis, brand promotion, customer relationship management, strategic communications, human-centered design, and retail strategies to build strong customer connections and support business growth. This Cluster is essential in all industries for creating value, effectively reaching and engaging target audiences, and achieving commercial success in a competitive marketplace.

- Marketing

Program Description
Marketing and Sales

Marketing (formerly in Marketing)

The Marketing program provides students with the overall principles of marketing and business administration. Areas of study include economic systems, business fundamentals, marketing information, product/service management, promotion, pricing, and professional selling.

Program Course Sequences
Marketing and Sales

Program Name	Course Sequence	State Skill Standards*
Marketing	**Core Course Sequence** Principles of Business and Marketing Marketing I **Complementary Course(s)** Marketing Advanced Studies Marketing Entrepreneurship CTE Work Experience – Marketing Industry-Recognized Credential – Marketing	Marketing Program of Study with Complementary Course Standards

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

Course Descriptions
Marketing and Sales

Principles of Business and Marketing

Prerequisite: None

This course is an entry-level course in the Business Management and 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 skills, and participate in career exploration and planning.

Marketing I

Prerequisite: Principles of Business and Marketing

This course is a continuation of the Marketing program. 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.

Marketing Advanced Studies

Prerequisite: Completion of Marketing Program of Study

This course is offered to students who have completed all content standards in the Marketing program of study and desire 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.

Marketing Entrepreneurship

Prerequisite: Completion of Marketing Program of Study

This course is offered to students who have completed all content standards in the Marketing program of study. The Entrepreneurship course is designed to introduce students to the nature and scope of entrepreneurship, the impact on market economies, marketing functions and economic concepts related to entrepreneurship. Business plan development is the key tool by which students will learn concepts. Personal traits and behaviors of successful entrepreneurs will also be examined.

Industry-Recognized Credential – Marketing

Prerequisite: Completion of Marketing Program of Study

This course is offered to students who have completed all content standards in the Marketing program of study and desire to pursue an Industry-Recognized Credential that aligns with the standards and skills associated with the Marketing Program of Study. This course is designed to expand the students' opportunities to pursue certification aligned with employment standards in the industry aligned with this program of study. The supervising teacher will provide instruction aligned with the certification requirements, monitor progress toward certification, and provide the students with appropriate testing or certification opportunities associated with the intended Industry-Recognized Credential that is the subject of the course. IRC's earned by students must be on the list of industry-recognized credentials identified by the Governor's Office of Workforce Innovation (OWINN). This course may be repeated for additional instruction and credit.

CTE Work Experience – Marketing and Sales

Prerequisite: Completion of Level 2 course in the qualifying program of study

This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth CTE 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.

Course Data Information - Marketing and Sales

Marketing

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
R	Principles of Business and Marketing	PRIN BUS MKTG	52.0101	F	12	051	G	1.00	12	12051G1.0012
R	Marketing I	MKTG I	52.1401	N	12	152	G	1.00	22	12152G1.0022
C	Marketing Advanced Studies	MKTG AS	52.1401	N	12	152	E	1.00	11	12152E1.0011
C	Marketing Entrepreneurship	MKTG ENTREPRENEUR	52.1401	N	12	053	E	1.00	11	12053E1.0011
C	Industry-Recognized Credential-Marketing	IRC BUS MGMT	52.0201	F	12	999	E	1.00	11	12999E1.0011

Notes:

Principles of Business and Marketing matched with: SCED 12051 Introductory Business
Marketing matched with: SCED 12152 Marketing—Comprehensive
Business Entrepreneurship matched with: SCED 12053 Entrepreneurship
Industry-Recognized Credential-Marketing matched with: SCED 12999 Business and Marketing-Other

CTE Work Experience - Marketing and Sales

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
C	CTE Work Experience - Marketing and Sales	WORK EXPER MARKET	**99.0032**	N	12	198	G	1.00	11	12198G1.0011

Notes:

Work Experience - Marketing Sales and Service matched with: SCED 12198 Marketing—Workplace Experience

Program Alignment for Public Service and Safety

The Public Service and Safety Career Cluster encompasses roles in local, state, and federal government; legal and justice systems; security; and military operations, all aimed at promoting civic responsibility and ensuring the well-being, security, functionality, and resilience of communities, states, and countries.

- Emergency Medical Technician
- Emergency Telecommunications
- Fire Science
- Forensic Science
- Law Enforcement
- Military Science

Program Descriptions
Public Service and Safety

Emergency Medical Technician (formerly in Health Science cluster)

Schools must be approved by the governing State Agency in order to offer this program

The Emergency Medical Technician program provides students with an introduction to emergency medical technician techniques and processes. The program provides the primary skills and knowledge for the pre-hospital emergency medical provider. It includes areas of study in legalities, trauma and medical assessment, documentation, patient care, and basic life support.

Emergency Telecommunications (formerly in Law, Public Safety, Corrections, and Security)

The Emergency Telecommunications program 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.

Fire Science (formerly in Law, Public Safety, Corrections, and Security)

Schools must be approved by the governing State Agency in order to offer this program

The Fire Science program provides students with an introduction to fire science techniques and processes. The program provides the skills and knowledge 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.

Forensic Science (formerly in Law, Public Safety, Corrections, and Security)

The Forensic Science program 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.

Law Enforcement (formerly in Law, Public Safety, Corrections, and Security)

The Law Enforcement program provides students with an introduction to law enforcement techniques and processes. Areas of study include basic functions of a law enforcement officer such as: written policies, quality control, court system, law, interrogations, use of force, and emergency management.

Military Science (formerly in Government and Public Administration)

The Military Science program provides students with the knowledge and skills in basic first aid, global awareness, problem solving, career exploration, leadership styles, wellness, patriotism, and leadership traits.

Program Course Sequences
Public Service and Safety

Program Name	Course Sequence	State Skill Standards*
Emergency Medical Technician	**Core Course Sequence** Principles of Health Science Emergency Medical Technician **Concurrent Course(s)** Emergency Medical Technician LAB ** **Complementary Course(s)** Emergency Medical Technician Advanced Studies CTE Work Experience – Public Service and Safety Industry-Recognized Credential – Emergency Medical Technician	Principles of Health Science Standards *and* Emergency Medical Technician Standards
Emergency Telecommunications	**Core Course Sequence** Emergency Telecommunications I Emergency Telecommunications II **Concurrent Course(s)** Emergency Telecommunications II Lab ** **Complementary Course(s)** Emergency Telecommunications Advanced Studies CTE Work Experience – Public Service and Safety Industry-Recognized Credential – Emergency Telecommunications	Emergency Telecommunications Standards
Fire Science	**Core Course Sequence** Fire Science I Fire Science II **Complementary Course(s)** Fire Science Advanced Studies CTE Work Experience – Public Service and Safety Industry-Recognized Credential – Fire Science	Fire Science Standards
Forensic Science	**Core Course Sequence** Forensic Science I Forensic Science II **Complementary Course(s)** Forensic Science Advanced Studies CTE Work Experience – Public Service and Safety Industry-Recognized Credential – Forensic Science	Forensic Science Standards
Law Enforcement	**Core Course Sequence** Law Enforcement I Law Enforcement II **Complementary Course(s)** Law Enforcement Advanced Studies CTE Work Experience – Public Service and Safety Industry-Recognized Credential – Law Enforcement	Law Enforcement Standards
Military Science	**Core Course Sequence** Military Science I Military Science II Military Science III **Complementary Course(s)** Military Science Advanced Studies CTE Work Experience – Public Service and Safety	Military Science Standards

* 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 course – see individual course descriptions for requirements and prerequisites.

Course Descriptions
Public Service and Safety

Emergency Medical Technician

Prerequisite: Principles of Health Science

Schools must be approved by the governing State Agency in order to offer this course

This course is a continuation of Principles of Health Science. 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.

Emergency Medical Technician LAB

Corequisite: Concurrent enrollment in Emergency Medical Technician

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.

Emergency Medical Technician Advanced Studies

Prerequisite: Completion of Emergency Medical Technician Program of Study

This course is offered to students who have completed all content standards in the Emergency Medical Technician program of study and desire 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.

Industry-Recognized Credential – Emergency Medical Technician

Prerequisite: Completion of Emergency Medical Technician Program of Study

This course is offered to students who have completed all content standards in the Emergency Medical Technician program of study and desire to pursue an Industry-Recognized Credential that aligns with the standards and skills associated with the Emergency Medical Technician Program of Study. This course is designed to expand the students' opportunities to pursue certification aligned with employment standards in the industry aligned with this program of study. The supervising teacher will provide instruction aligned with the certification requirements, monitor progress toward certification, and provide the students with appropriate testing or certification opportunities associated with the intended Industry-Recognized Credential that is the subject of the course. IRC's earned by students must be on the list of industry-recognized credentials identified by the Governor's Office of Workforce Innovation (OWINN). This course may be repeated for additional instruction and credit.

Emergency Telecommunications I

Prerequisite: None

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.

Emergency Telecommunications II

Prerequisite: Emergency Telecommunications I

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 National Academies of Emergency Dispatch (NAED), management of emergency and non-emergency situations, operations of two-way radios, and 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.

Emergency Telecommunications II LAB

Corequisite: Concurrent enrollment in Emergency Telecommunications II

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.

Emergency Telecommunications Advanced Studies

Prerequisite: Completion of Emergency Telecommunications Program of Study

This course is offered to students who have completed all content standards in the Emergency Telecommunications program of study and desire 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.

Industry-Recognized Credential – Emergency Telecommunications

Prerequisite: Completion of Emergency Telecommunications Program of Study

This course is offered to students who have completed all content standards in the Emergency Telecommunications program of study and desire to pursue an Industry-Recognized Credential that aligns with the standards and skills associated with the Emergency Telecommunications Program of Study. This course is designed to expand the students' opportunities to pursue certification aligned with employment standards in the industry aligned with this program of study. The supervising teacher will provide instruction aligned with the certification requirements, monitor progress toward certification, and provide the students with appropriate testing or certification opportunities associated with the intended Industry-Recognized Credential that is the subject of the course. IRC's earned by students must be on the list of industry-recognized credentials identified by the Governor's Office of Workforce Innovation (OWINN). This course may be repeated for additional instruction and credit.

Fire Science I

Prerequisite: None

Schools must be approved by the governing State Agency in order to offer this course

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 firefighter safety, fire behavior, personal protective equipment, building construction, service equipment, and organizational rules that define guidelines that govern emergency fire management. Students will compare career fields 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.

Fire Science II

Prerequisite: Fire Science I

Schools must be approved by the governing State Agency in order to offer this course

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, suppression, ventilation, water supply, loss control, medical care, and awareness of 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.

Fire Science Advanced Studies

Prerequisite: Completion of Fire Science Program of Study

This course is offered to students who have completed all content standards in the Fire Science program of study and desire 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.

Industry-Recognized Credential – Fire Science

Prerequisite: Completion of Fire Science Program of Study

This course is offered to students who have completed all content standards in the Fire Science program of study and desire to pursue an Industry-Recognized Credential that aligns with the standards and skills associated with the Fire Science Program of Study. This course is designed to expand the students' opportunities to pursue certification aligned with employment standards in the industry aligned with this program of study. The supervising teacher will provide instruction aligned with the certification requirements, monitor progress toward certification, and provide the students with appropriate testing or certification opportunities associated with the intended Industry-Recognized Credential that is the subject of the course. IRC's earned by students must be on the list of industry-recognized credentials identified by the Governor's Office of Workforce Innovation (OWINN). This course may be repeated for additional instruction and credit.

Forensic Science I

Prerequisite: None

This course introduces the principles and procedures employed in criminal and civil investigations. Areas of study include history of forensic science, types of evidence, careers, legal and ethical issues, and exploring crime scenes. Emphasis will be put on gathering information that is used to collect evidence, practice unbiased testimony, crime scene photography, and crime scene procedures. The appropriate use of technology and industry-standards equipment is an integral part of this course.

Forensic Science II

Prerequisite: Forensic Science I

This course is a continuation of Forensic Science I. This course allows students interested in the forensic science field to develop their knowledge and skills in principles and procedures related to laboratory fundamentals and forensic disciplines. Areas of study include biological and chemical hazards, utilization of lab equipment, lab accreditation, examination of evidence, and fingerprinting processes. The appropriate use of technology and industry-standards equipment is an integral part of this course.

Forensic Science Advanced Studies

Prerequisite: Completion of Forensic Science Program of Study

This course is offered to students who have completed all content standards in the Forensic Science program of study and desire 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.

Industry-Recognized Credential – Forensic Science

Prerequisite: Completion of Forensic Science Program of Study

This course is offered to students who have completed all content standards in the Forensic Science program of study and desire to pursue an Industry-Recognized Credential that aligns with the standards and skills associated with the Forensic Science Program of Study. This course is designed to expand the students' opportunities to pursue certification aligned with employment standards in the industry aligned with this program of study. The supervising teacher will provide instruction aligned with the certification requirements, monitor progress toward certification, and provide the students with appropriate testing or certification opportunities associated with the intended Industry-Recognized Credential that is the subject of the course. IRC's earned by students must be on the list of industry-recognized credentials identified by the Governor's Office of Workforce Innovation (OWINN). This course may be repeated for additional instruction and credit.

Law Enforcement I

Prerequisite: None

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 health and wellness. The appropriate use of technology and industry-standard equipment is an integral part of this course.

Law Enforcement II

Prerequisite: Law Enforcement I

This course is a continuation of Law Enforcement I. 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, crisis intervention, investigations, interrogations, and introduction to the criminal justice system. 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.

Law Enforcement Advanced Studies

Prerequisite: Completion of Law Enforcement Program of Study

This course is offered to students who have completed all content standards in the Law Enforcement program of study and desire 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.

Industry-Recognized Credential – Law Enforcement

Prerequisite: Completion of Law Enforcement Program of Study

This course is offered to students who have completed all content standards in the Law Enforcement program of study and desire to pursue an Industry-Recognized Credential that aligns with the standards and skills associated with the Law Enforcement Program of Study. This course is designed to expand the students' opportunities to pursue certification aligned with employment standards in the industry aligned with this program of study. The supervising teacher will provide instruction aligned with the certification requirements, monitor progress toward certification, and provide the students with appropriate testing or certification opportunities associated with the intended Industry-Recognized Credential that is the subject of the course. IRC's earned by students must be on the list of industry-recognized credentials identified by the Governor's Office of Workforce Innovation (OWINN). This course may be repeated for additional instruction and credit.

Military Science I

Prerequisite: None

This course introduces students to the fundamentals of Military Science. Areas of emphasis include introduction to JROTC, foundation of leadership, citizenship, wellness, physical fitness, and first aid. Students will also gain experience in specific branch topics related to their program (Air Force/Space Force, Army, Marine Corps, or Navy).

Military Science II

Prerequisite: Military Science I

This course is a continuation of Military Science I. This course provides military science students with the ability to further their skills and knowledge levels. Areas of emphasis include personal growth, basic leadership, military careers, military branch core values, and communications. Students will also gain experience in specific branch topics related to their program (Air Force/Space Force, Army, Marine Corps, Navy). The appropriate use of technology and industry-standard equipment is an integral part of this course.

Military Science III

Prerequisite: Military Science II

This course is the continuation of Military Science II. This course provides an in-depth experience that applies the processes, concepts, and principles as described in the classroom instruction. Areas of emphasis include intermediate leadership and financial planning. Students will also gain experience in specific branch topics related to their program (Air Force/Space Force, Army, Marine Corps, or Navy). The appropriate use of technology and industry-standard equipment is an integral part of this course.

Military Science Advanced Studies

Prerequisite: Completion of Military Science Program of Study

This course is a continuation of Military Science III. This course provides advanced military science students with the ability to further their skills and knowledge levels. Areas of emphasis include advanced leadership, management, and specific branch topics. 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.

CTE Work Experience – Public Service and Safety

Prerequisite: Completion of Level 2 course in the qualifying program of study

This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth CTE 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.

Course Data Information - Public Service and Safety

Emergency Medical Technician

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
R	Principles of Health Science	PRN HEALTH SCI	51.0000	N	14	002	G	1.00	12	14002G1.0012
R	Emergency Medical Technician	EMER MED TECH	51.0904	N	14	055	G	1.00	22	14055G1.0022
C**	Emergency Medical Technician LAB	EMER MED TECH L	51.0904	N	14	055	E	1.00	22	14055E1.0022
C	Emergency Medical Technician Advanced Studies	EMER MED TECH AS	51.0904	N	14	055	E	1.00	11	14055E1.0011
C	Industry-Recognized Credential-Emergency Medical Technician	IRC EMER MED TECH	51.0904	N	14	999	E	1.00	11	14999E1.0011

Notes:

Principles of Health Science matched with: SCED 14002 Health Care Occupations—Comprehensive

Emergency Medical Technician matched with: SCED 14055 Emergency Medical Technology

Industry-Recognized Credential-Emergency Medical Technician matched with: SCED 14999 Health Care Sciences-Other

**Lab courses are to be taught concurrently with the associated level course (i.e., level two course with the level two lab course)

Emergency Telecommunications

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
R	Emergency Telecommunications I	EMER TELECOMM I	43.0399	F	15	104	G	1.00	12	15104G1.0012
R	Emergency Telecommunications II	EMER TELECOMM II	43.0399	F	15	104	G	1.00	22	15104G1.0022
C	Emergency Telecommunications Advanced Studies	EMER TELECOMM AS	43.0399	F	15	104	E	1.00	11	15104E1.0011
C	Industry-Recognized Credential-Emergency Telecommunications	IRC EMER TELECOMM	43.0399	F	15	999	E	1.00	11	15999E1.0011

Notes:

Emergency Telecommunications matched with: SCED 15104 Public Safety Telecommunications

Industry-Recognized Credential-Emergency Telecommunications matched with: SCED 15999 Public, Protective, and Government Service-Other

Fire Science

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
R	Fire Science I	FIRE SCI I	43.0203	F	15	151	G	1.00	12	15151G1.0012
R	Fire Science II	FIRE SCI II	43.0203	F	15	151	G	1.00	22	15151G1.0022
C	Fire Science Advanced Studies	FIRE SCI AS	43.0203	F	15	151	E	1.00	11	15151E1.0011
C	Industry-Recognized Credential-Fire Science	IRC FIRE SCI	43.0203	F	15	999	E	1.00	11	15999E1.0011

Notes:

Fire Science matched with: SCED 15151 Fire Science

Industry-Recognized Credential-Fire Science matched with: SCED 15999 Public, Protective, and Government Service-Other

Nevada Career and Technical Education Course Catalog 2026-27

Forensic Science

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
R	Forensic Science I	FORENSIC SCI I	43.0406	N	15	055	G	1.00	12	15055G1.0012
R	Forensic Science II	FORENSIC SCI II	43.0406	N	15	055	G	1.00	22	15055G1.0022
C	Forensic Science Advanced Studies	FORENSIC SCI AS	43.0406	N	15	055	E	1.00	11	15055E1.0011
C	Industry-Recognized Credential-Forensic Science	IRC FORENSIC SCI	43.0406	N	15	999	E	1.00	11	15999E1.0011

Notes:

Forensic Science matched with: SCED 15055 Forensic Science

Industry-Recognized Credential-Forensic Science matched with: SCED 15999 Public, Protective, and Government Service-Other

Law Enforcement

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
R	Law Enforcement I	LAW ENFORCE I	43.0107	F	15	054	G	1.00	12	15054G1.0012
R	Law Enforcement II	LAW ENFORCE II	43.0107	F	15	054	G	1.00	22	15054G1.0022
C	Law Enforcement AS	LAW ENFORCE AS	43.0107	F	15	054	E	1.00	11	15054G1.0011
C	Industry-Recognized Credential-Law Enforcement	IRC LAW ENFORCE	43.0107	F	15	999	E	1.00	11	15999E1.0011

Notes:

Law Enforcement matched with: SCED 15054 Law Enforcement

Industry-Recognized Credential-Forensic Science matched with: SCED 15999 Public, Protective, and Government Service-Other

Military Science

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
R	Military Science I	MIL SCI I	28.0503	F	09	002	G	1.00	13	09002G1.0013
R	Military Science II	MIL SCI II	28.0503	F	09	002	G	1.00	23	09002G1.0023
R	Military Science III	MIL SCI III	28.0503	F	09	002	G	1.00	33	09002G1.0033
C	Military Science AS	MIL SCI AS	28.0503	F	09	002	E	1.00	11	09002E1.0011

Notes:

Military Science matched with: SCED 09002 Military Jr. ROTC—unspecified branch

CTE Work Experience – Public Service and Safety

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
C	CTE Work Experience – Public Service and Safety	WORK EXPER PUB SERV SAFE	**99.0033**	F	15	998	G	1.00	11	15998G1.0011

Notes:

Work Experience - Public Service and Safety matched with: SCED 15998 Public, Protective, and Government Service—Workplace Experience

Program Alignment for
Supply Chain and Transportation

The Supply Chain and Transportation Career Cluster encompasses the transfer, coordination, and management of goods from production to consumption, ensuring efficient movement across various modes of transportation including air, ground, and water, as well as maintenance of the respective transport modes. This Cluster integrates logistics and distribution networks to facilitate the seamless flow of materials and products, playing a crucial role in global commerce, economic development, and community health.

- Automotive Technology
- Aviation Maintenance Technician
- Aviation Technology
- Diesel Technology
- Logistics Management

Program Descriptions
Supply Chain and Transportation

Automotive Technology (formerly in Transportation, Distribution, and Logistics)

The Automotive Technology program provides students with instruction in the operational and scientific nature of the automotive component systems including fuel, intake, exhaust, ignition, lubrication, braking, heating and cooling, electrical, and suspension systems. This program is aligned with the NATEF Maintenance and Light Repair (MLR) program standards.

Aviation Maintenance Technician (formerly in Transportation, Distribution, and Logistics)

The Aviation Maintenance Technician program will introduce students to the operational and scientific nature of the aviation maintenance industry. This program will introduce students to safe working habits, components of a reciprocating engine, aircraft control systems, and avionics systems.

Aviation Technology (formerly in Transportation, Distribution, and Logistics)

The Aviation Technology program introduces students to the principles of flight, the aircraft flight environment, aircraft performance standards, flight controls, metrology, radio communications, flight planning, Federal Aviation Administration (FAA) regulations, navigation, the human body in flight, airman decision-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.

Diesel Technology (formerly in Transportation, Distribution, and Logistics)

The Diesel Technology program provides students with fundamental diesel systems theory, service, and repair. It will introduce the operational and scientific nature of diesel systems. It will provide students with a basic knowledge of diesel systems and operating principles. Areas of study include engines, steering and suspension, preventative maintenance, hydraulics, electrical systems, and braking systems.

Logistics Management (formerly in Business Management and Administration)

Careers in the Logistics Management pathway involve the planning, management, and control of the physical distribution of materials, products, and people. Often, more than one mode of transportation is used as distribution efforts can be complex, even national, or global. These people are responsible for the plans which will ensure that cargo arrives at the right location, on time, and in the safest, most economical manner.

Program Course Sequences
Supply Chain and Transportation

Program Name	Course Sequence	State Skill Standards*
Automotive Technology	**Core Course Sequence** Automotive Technology I Automotive Technology II **Concurrent Course(s)** Automotive Technology II LAB ** **Complementary Course(s)** Automotive Technology Advanced Studies Intermediate Automotive Technology CTE Work Experience – Supply Chain and Transportation Industry-Recognized Credential – Automotive Technology	Automotive Technology Program of Study with Complementary Course Standards
Aviation Maintenance Technician	Core Course Sequence Aviation Maintenance Technician I Aviation Maintenance Technician II **Complementary Course(s)** Aviation Maintenance Technician Advanced Studies CTE Work Experience – Supply Chain and Transportation Industry-Recognized Credential – Aviation Maintenance Technician	Aviation Maintenance Technician Standards
Aviation Technology	**Core Course Sequence** Aviation Technology I Aviation Technology II **Complementary Course(s)** Aviation Technology Advanced Studies Pilot Preparation CTE Work Experience – Supply Chain and Transportation Industry-Recognized Credential – Aviation Technology	Aviation Technology Program of Study with Complementary Course Standards
Diesel Technology	**Core Course Sequence** Diesel Technology I Diesel Technology II **Concurrent Course(s)** Diesel Technology II LAB ** **Complementary Course(s)** Diesel Technology Advanced Studies Diesel Applied Concepts CTE Work Experience – Supply Chain and Transportation Industry-Recognized Credential – Diesel Technology	Diesel Technology Program of Study with Complementary Course Standards
Logistics Management	**Core Course Sequence** Principles of Office and Logistics Management Logistics Management **Complementary Course(s)** Logistics Management Advanced Studies CTE Work Experience – Supply Chain and Transportation Industry-Recognized Credential – Logistics Management	Logistics Management Standards

* 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 course – see individual course descriptions for requirements and corequisites.

Course Descriptions
Supply Chain and Transportation

Automotive Technology I

Prerequisite: None

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.

Automotive Technology II

Prerequisite: Automotive Technology I

This course is a continuation of Automotive 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. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.

Automotive Technology II LAB

Corequisite: Concurrent enrollment in Automotive Technology II

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.

Automotive Technology Advanced Studies

Prerequisite: Completion of Automotive Technology Program of Study

This course is offered to students who have completed all content standards in the Automotive Technology program of study and desire 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.

Intermediate Automotive Technology

Prerequisite: Completion of Automotive Technology Program of Study

This course is offered to students who have completed all content standards in the Automotive Technology program of study. 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 by providing additional instruction in the ASE standard areas. 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 received advanced level skills to move into employment or continue in postsecondary education.

Industry-Recognized Credential – Automotive Technology

Prerequisite: Completion of Automotive Technology Program of Study

This course is offered to students who have completed all content standards in the Automotive Technology program of study and desire to pursue an Industry-Recognized Credential that aligns with the standards and skills associated with the Automotive Technology Program of Study. This course is designed to expand the students' opportunities to pursue certification aligned with employment standards in the industry aligned with this program of study. The supervising teacher will provide instruction aligned with the certification requirements, monitor progress toward certification, and provide the students with appropriate testing or certification opportunities associated with the intended Industry-Recognized Credential that is the subject of the course. IRC's earned by students must be on the list of industry-recognized credentials identified by the Governor's Office of Workforce Innovation (OWINN). This course may be repeated for additional instruction and credit.

Aviation Maintenance Technician I

Prerequisite: None

This course will introduce students to the operational nature of the aviation maintenance industry. This course will introduce students to the practical application of safe work habits and the correct use of tools and precision test instruments. Students will practice safe working habits and learn the components of a reciprocating engine, aircraft control systems, and avionics systems. The course will include aircraft service requirements, ground operation procedures, and calculating the cost associated with aircraft preventative maintenance. The appropriate use of technology and industry-standard equipment is an integral part of this course.

Aviation Maintenance Technician II

Prerequisite: Aviation Maintenance Technician I

This course is a continuation of Aviation Maintenance Technician I. This course provides intermediate aviation maintenance technician students with instruction in general aeronautics. It includes the study of physical mathematics, common and special tools and measuring devices, fluid lines, hardware, aircraft servicing, and documentation (Part 65). The appropriate use of technology and industry-standard equipment is an integral part of this course.

Aviation Maintenance Technician Advanced Studies

Prerequisite: Completion of Aviation Maintenance Technician Program of Study

This course is offered to students who have completed all content standards in the Aviation Maintenance Technician program of study and desire 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.

Industry-Recognized Credential – Aviation Maintenance Technician

Prerequisite: Completion of Aviation Maintenance Technician Program of Study

This course is offered to students who have completed all content standards in the Aviation Maintenance Technician program of study and desire to pursue an Industry-Recognized Credential that aligns with the standards and skills associated with the Aviation Maintenance Technician Program of Study. This course is designed to expand the students' opportunities to pursue certification aligned with employment standards in the industry aligned with this program of study. The supervising teacher will provide instruction aligned with the certification requirements, monitor progress toward certification, and provide the students with appropriate testing or certification opportunities associated with the intended Industry-Recognized Credential that is the subject of the course. IRC's earned by students must be on the list of industry-recognized credentials identified by the Governor's Office of Workforce Innovation (OWINN). This course may be repeated for additional instruction and credit.

Aviation Technology I

Prerequisite: None

This course is designed as an introduction to general aeronautics. It includes the study of the impact of aviation on society, physical mathematics, common and special tools and measuring devices, physics of flight, aerodynamics of flight, and analyzing aeronautical charts. It provides basic information on the principles, fundamentals, and technical procedures in the areas of aircraft, aerospace, and aviation professions. Students will learn the principles of flight and navigation, and the flight environment of an aerospace vehicle. The appropriate use of technology and industry-standard equipment is an integral part of this course.

Aviation Technology II

Prerequisite: Aviation Technology I

This course is a continuation of Aviation Technology I. This course provides intermediate aviation technology students with an in-depth knowledge about the systems and structures found on today's aircraft. Students will become familiar with aircraft structural materials, coverings, electrical systems, hydraulics, computer systems, environmental systems, safety equipment, control systems, power plants, and avionics. Through the knowledge gained in studying aircraft systems and structures, students will learn 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.

Aviation Technology Advanced Studies

Prerequisite: Completion of Aviation Technology Program of Study

This course is offered to students who have completed all content standards in the Aviation Technology program of study and desire 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.

Pilot Preparation

Prerequisite: Completion of Aviation Technology Program of Study

This course is offered to students who have completed all content standards in the Aviation Technology program of study. This course provides advanced aviation technology students with instruction in techniques and processes and will prepare students to successfully take the Federal Aviation Administration (FAA) Part 61.105b Private Pilot Knowledge Test. This course introduces students to 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 decision-making, accident prevention, Airman Information Manual (AIM), 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. The appropriate use of technology and industry-standard equipment is an integral part of this course.

Industry-Recognized Credential – Aviation Technology

Prerequisite: Completion of Aviation Technology Program of Study

This course is offered to students who have completed all content standards in the Aviation Technology program of study and desire to pursue an Industry-Recognized Credential that aligns with the standards and skills associated with the Aviation Technology Program of Study. This course is designed to expand the students' opportunities to pursue certification aligned with employment standards in the industry aligned with this program of study. The supervising teacher will provide instruction aligned with the certification requirements, monitor progress toward certification, and provide the students with appropriate testing or certification opportunities associated with the intended Industry-Recognized Credential that is the subject of the course. IRC's earned by students must be on the list of industry-recognized credentials identified by the Governor's Office of Workforce Innovation (OWINN). This course may be repeated for additional instruction and credit.

Diesel Technology I

Prerequisite: None

This course provides students with fundamental diesel systems theory, service, and repair. It will introduce the operational and scientific nature of diesel systems. It will provide students with a basic knowledge of diesel systems such as fuel systems, air induction, exhaust and engine break cooling systems and lubrication requirements and procedures. It also includes fundamental concepts of drivetrains, general electrical systems and fundamentals of tires, wheels, steering, and suspension. The students will study the technological nature of diesel-powered equipment. The proper and safe use of tools and precision test equipment will be emphasized throughout the course.

Diesel Technology II

Prerequisite: Diesel Technology I

This course is a continuation of Diesel Technology I. This course is designed to provide intermediate students with knowledge of diesel systems operating principles and the applications of diesel power. Areas of study may include diesel engine repair such as cylinder head and valve train service evaluation and repair, fundamental concepts of hydraulics and hydraulic systems, general electronic systems hydraulic brake system, wheel bearing service and repair and steering systems. In addition, preventative maintenance inspection and service concepts will be practiced. 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.

Diesel Technology II LAB

Corequisite: Concurrent enrollment in Diesel Technology II

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.

Diesel Technology Advanced Studies

Prerequisite: Completion of Diesel Technology Program of Study

This course is offered to students who have completed all content standards in the Diesel Technology program of study and desire 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.

Diesel Applied Concepts

Prerequisite: Completion of Diesel Technology Program of Study

This course is offered to students who have completed all content standards in the Diesel Technology program of study. This course provides diesel technology students with in-depth study and skill development as applied to diesel engines. It includes lubrication systems, cooling systems service and repair, air induction and exhaust systems, fuel supply systems, and an introduction to diesel emissions. In addition, applications in drive train repair, electric and electronic systems, brake systems and suspension, steering and chassis service, hydraulic systems, and heating, ventilation and air conditioning (HVAC) systems are developed. 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 received advanced level skills to move into employment or continue in postsecondary education.

Industry-Recognized Credential – Diesel Technology

Prerequisite: Completion of Diesel Technology Program of Study

This course is offered to students who have completed all content standards in the Diesel Technology program of study and desire to pursue an Industry-Recognized Credential that aligns with the standards and skills associated with the Diesel Technology Program of Study. This course is designed to expand the students' opportunities to pursue certification aligned with employment standards in the industry aligned with this program of study. The supervising teacher will provide instruction aligned with the certification requirements, monitor progress toward certification, and provide the students with appropriate testing or certification opportunities associated with the intended Industry-Recognized Credential that is the subject of the course. IRC's earned by students must be on the list of industry-recognized credentials identified by the Governor's Office of Workforce Innovation (OWINN). This course may be repeated for additional instruction and credit.

Principles of Office and Logistics Management

Prerequisite None

This course is for entry-level students in Office and Logistics Management and prepares students for jobs in an office or business setting with an emphasis in either office management or logistics management. Students will gain knowledge and proficiency of advanced web functions, word-processing applications, spreadsheet applications, presentation applications, and database applications as they are used in a business environment. Students will understand and abide by policies for technology.

Logistics Management

Prerequisite: Principles of Office and Logistics Management

This course is a continuation of the Logistics Management program and prepares students for work in an office or business environment. Students will learn occupational skills related to logistics management such as recording business transactions, posting journal and ledger entries, and preparing financial statements. Additionally, an introduction to supply chain components and organizational structures will be covered. The appropriate use of technology and industry-standard equipment is an integral part of this course. Students will learn and apply advanced skills in logistics management technology and software commonly used in today's work environment. Upon successful completion of this program, students will have acquired entry-level skills for employment in this field.

Logistics Management Advanced Studies

Prerequisite: Completion of Logistics Management Program of Study

This course is offered to students who have completed all content standards in the Logistics Management program of study and desire 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.

Industry-Recognized Credential – Logistics Management

Prerequisite: Completion of Logistics Management Program of Study

This course is offered to students who have completed all content standards in the Logistics Management program of study and desire to pursue an Industry-Recognized Credential that aligns with the standards and skills associated with the Logistics Management Program of Study. This course is designed to expand the students' opportunities to pursue certification aligned with employment standards in the industry aligned with this program of study. The supervising teacher will provide instruction aligned with the certification requirements, monitor progress toward certification, and provide the students with appropriate testing or certification opportunities associated with the intended Industry-Recognized Credential that is the subject of the course. IRC's earned by students must be on the list of industry-recognized credentials identified by the Governor's Office of Workforce Innovation (OWINN). This course may be repeated for additional instruction and credit.

CTE Work Experience – Supply Chain and Transportation

Prerequisite: Completion of Level 2 course in the qualifying program of study

This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth CTE 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.

Course Data Information - Supply Chain and Transportation

Automotive Technology

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
R	Automotive Technology I	AUTO TECH I	47.0600	F	20	104	G	1.00	12	20104G1.0012
R	Automotive Technology II	AUTO TECH II	47.0600	F	20	104	G	1.00	22	20104G1.0022
C**	Intermediate Automotive Technology	INT AUTO TECH	47.0600	F	20	104	E	1.00	11	20104E1.0011
C	Automotive Technology Advanced Studies	AUTO TECH AS	47.0600	F	20	104	E	1.00	11	20104E1.0011
C	Automotive Technology II LAB	AUTO TECH II L	47.0600	F	20	104	E	1.00	22	20104E1.0022
C	Industry-Recognized Credential-Automotive Technology	IRC AUTO TECH	47.0600	F	20	999	E	1.00	11	20999E1.0011

Notes:

Automotive Technology matched with: SCED 20104 Automotive Mechanics—Comprehensive

Industry-Recognized Credential-Automotive Technology matched with: SCED 20999 Transportation, Distribution, and Logistics—Other

**Lab courses are to be taught concurrently with the associated level course (i.e., level two course with the level two lab course)

Aviation Maintenance Technician

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
R	Aviation Maintenance Technician I	AVI MAINT TECH I	47.0608	F	20	113	G	1.00	12	20113G1.0012
R	Aviation Maintenance Technician II	AVI MAINT TECH II	47.0608	F	20	113	G	1.00	22	20113G1.0022
C	Aviation Maintenance Technician Advanced Studies	AVI MAINT TECH AS	47.0608	F	20	113	E	1.00	11	20113E1.0011
C	Industry-Recognized Credential – Aviation Maintenance Technician	IRC AVI MAINT TECH	47.0608	F	20	999	E	1.00	11	20999E1.0011

Notes:

Aviation Maintenance matched with: SCED 20113 Aircraft Power Plant

Industry-Recognized Credential – Aviation Maintenance Technician matched with: SCED 20999 Transportation, Distribution, and Logistics—Other

Nevada Career and Technical Education Course Catalog 2026-27

Aviation Technology

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
R	Aviation Technology I	AVIATION TECH I	49.0101	F	20	053	G	1.00	12	20053G1.0012
R	Aviation Technology II	AVIATION TECH II	49.0101	F	20	053	G	1.00	22	20053G1.0022
C	Aviation Technology Advanced Studies	AVIATION TECH AS	49.0101	F	20	053	E	1.00	11	20053E1.0011
C	Pilot Preparation	PILOT PREP	36.0202	F	20	055	E	1.00	11	20055E1.0011
C	Industry-Recognized Credential – Aviation Technology	IRC AVIATION TECH	49.0101	F	20	999	E	1.00	11	20999E1.0011

Notes:

Aviation Technology matched with: SCED 20053 Aviation

Pilot Preparation matched with: SCED 20055 Pilot Training

Industry-Recognized Credential – Aviation Technology matched with: SCED 20999 Transportation, Distribution, and Logistics—Other

Diesel Technology

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
R	Diesel Technology I	DIESEL TECH I	47.0605	F	20	107	G	1.00	12	20107G1.0012
R	Diesel Technology II	DIESEL TECH II	47.0605	F	20	107	G	1.00	22	20107G1.0022
C**	Diesel Technology II LAB	DIESEL TECH II L	47.0605	F	20	107	E	1.00	22	20107E1.0022
C	Diesel Technology Advanced Studies	DIESEL TECH AS	47.0605	F	20	107	E	1.00	11	20107E1.0011
C	Diesel Applied Concepts	DEICEL CONCEPTS	47.0605	F	20	107	E	1.00	11	20107E1.0011
C	Industry-Recognized Credential – Diesel Technology	IRC DIESEL TECH	47.0605	F	20	999	E	1.00	11	20999E1.0011

Notes:

Diesel Technology matched with: SCED 20107 Diesel Mechanics—Comprehensive

Diesel Applied Concepts matched with: SCED 20107 Diesel Mechanics—Comprehensive

IRC Diesel Technology matched with: SCED 20999 Transportation, Distribution, and Logistics—Other

**Lab courses are to be taught concurrently with the associated level course (i.e., level two course with the level two lab course)

Logistics Management

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
R	Principles of Office and Logistics Management	PRNOLM	52.0204	N	12	003	G	1.00	12	12003G1.0012
R	Logistics Management	LOGISTICS MGMT	52.0203	F	12	007	G	1.00	22	12007G1.0022
C	Logistics Management Advanced Studies	LOGISTICS MGMT AS	52.0203	F	12	007	E	1.00	11	12007E1.0011
C	Industry-Recognized Credential-Logistics Management	IRC LOGISTICS MGMT	52.0203	F	12	999	E	1.00	11	12999E1.0011

Notes:

Principles of Office and Logistics Management matched with: SCED 12003 Office and Administrative Technologies
Logistics Management matched with: SCED 12007 Recordkeeping
Industry-Recognized Credential-Logistics Management matched with: SCED 12999 Business and Management—Other

CTE Work Experience – Supply Chain and Transportation

Required Concurrent (C**) Complementary	Course Title	Abbreviated Name	CIP Code	Non-Trad	SCED Subject Area	SCED Course Identifier	SCED Course Level	SCED Unit Credit	SCED Course Sequence	SCED Course Number
C	CTE Work Experience – Supply Chain and Transportation	WORK EXPER TRANS	**99.0034**	F	20	998	G	1.00	11	20998G1.0011

Notes:

Work Experience – Supply Chain and Transportation matched with: SCED 20998 Transportation, Distribution, and Logistics—Workplace Experience

Middle School

Middle School Explore CTE Course Description (introduced 2026-27)

These courses will serve as an introduction to high school CTE pathways in the fourteen Career Clusters introduced by Advance CTE in 2025. They are repeatable courses that introduce students to essential concepts and skills supporting career readiness across various fields. Through hands-on learning and exploration, students will engage with four main pillars: Understanding Careers and the Nature of Work, Safety and Best Practices, Employability Skills, and 4PBL (Phenomenon, Place, Project, Problem). Emphasis is placed on developing critical thinking, collaboration, and real-world application. Each year, students will deepen their knowledge and expand their skill sets with age-appropriate experiences and increasing levels of responsibility. The courses are designed to be taught over a period ranging from nine weeks to three years, at the discretion of each school district.

Middle School Explore CTE Courses by Career Cluster introduced 2026-27

Explore Advanced Manufacturing
Explore Agriculture
Explore Arts, Entertainment, and Design
Explore Construction
Explore Digital Technology
Explore Education
Explore Energy and Natural Resources
Explore Financial Services
Explore Healthcare and Human Services
Explore Hospitality, Events, and Tourism
Explore Management and Entrepreneurship
Explore Marketing and Sales
Explore Public Service and Safety
Explore Supply Chain and Transportation

Course Data Information
Middle School Explore CTE Courses

COURSE TITLE (CTE Course Catalog Name)	ABBREVIATED NAME	CIP CODE	CREDITS	NON-TRAD	SCED CODE
Explore Advanced Manufacturing	EX ADV MFG	15.0613	.25 to 1.00	F	13001X060811
Explore Agriculture	EX AG	01.0000	.25 to 1.00	N	18001X060811
Explore Arts, Entertainment, and Design	EX ARTS	10.0105	.25 to 1.00	F	11001X060811
Explore Construction	EX CONST	46.0000	.25 to 1.00	F	17001X060811
Explore Digital Technology	EX DIG TECH	11.0103	.25 to 1.00	F	10012X060811
Explore Education	EX ED	13.0101	.25 to 1.00	M	19151X060811
Explore Energy and Natural Resources	EX ENERGY	03.0101	.25 to 1.00	N	03012X060811
Explore Financial Services	EX FINANCE	52.0801	.25 to 1.00	N	12103X060811
Explore Healthcare and Human Services	EX HEALTH HS	51.0000	.25 to 1.00	N	14001X060811
Explore Hospitality, Events, and Tourism	EX HOSP	52.0901	.25 to 1.00	N	16001X060811
Explore Management and Entrepreneurship	EX MGMT	52.0201	.25 to 1.00	F	12051X060811
Explore Marketing and Sales	EX MKTG	52.1401	.25 to 1.00	N	12151X060811
Explore Public Service and Safety	EX PUB SERV	43.9999	.25 to 1.00	N	15001X060811
Explore Supply Chain and Transportation	EX TRANSPORT	52.0203	.25 to 1.00	F	20001X060811

*Note: The SCED and CIP information is currently used for the existing middle and/or high school CTE courses, so proper **Course Title** must be used in the State Defined section of your Course Master (CTE Course Catalog Name) to ensure proper enrollment counts. Credit value can be adjusted at the district level in the Infinite Campus Course Master file (General Course Master Information section) created for each course.*

Middle School Courses introduced 2022-23 by Program Area

Agriculture, Food, and Natural Resources

Ag Ventures

Prerequisite: None

This one-semester course introduces middle school students to the world of agriculture and natural resources. Areas of study will include exploration of plant and animal science, food science, agricultural mechanics, and leadership development through projects and hands-on learning. Career exploration and an introduction to career and technical education programs of study are integral to the course.

Arts, A/V Technology, and Communications

Digital Designers

Prerequisite: None

This one-semester course introduces middle school students to the world of digital media. Areas of study will include exploration in principles of design, photography, video, web design, and leadership development through projects and hands-on learning. Career exploration and an introduction to career and technical education programs of study are integral to the course.

Business Management and Administration

Business Innovators

Prerequisite: None

This one-semester course introduces middle school students to the world of business through projects and hands-on learning. Areas of study include exploration of business terms, marketing concepts, entrepreneurship, and leadership development. Career exploration and an introduction to career and technical education programs of study are integral to the course.

Health Science

Everyday Heroes

Prerequisite: None

This one-semester course introduces middle school students to the world of health care and first responders. Areas of study will include exploration of basic anatomy, public safety, medical concepts, first aid, and leadership through projects and hands-on learning. Career exploration and an introduction to career and technical education programs of study are integral to the course.

Human Services

Teening to Adulting

Prerequisite: None

This one-semester course introduces middle school students to the world of education, hospitality, and human services. Areas of study include the exploration of foods and wellness, family dynamics, design in clothing and housing, education and care of children, and leadership development through projects and hands-on learning. Career exploration and an introduction to career and technical education programs of study are integral to the course.

Science, Technology, Engineering, and Mathematics

Building Engineers I

Prerequisite: None

This one-semester course introduces middle school students to the world of skilled and technical sciences through hands-on projects and interactive learning. Areas of study will include exploration of tools and safety, measurement, design process, robotics, power and energy, and leadership development. Career exploration and an introduction to career and technical education programs of study are integral to the course.

Building Engineers II

Prerequisite: Building Engineers I

This one-semester course introduces middle school students to advanced concepts in skilled and technical sciences through hands-on projects and interactive learning. Areas of study will include exploration of engineering design process, robotics, automation, power and energy, and coding. Career exploration and an introduction to career and technical education programs of study are integral to the course.

Course Data Information
Middle School

COURSE TITLE	ABBREVIATED NAME	CIP CODE	CREDITS	NON-TRAD	SCED CODE
Ag Ventures *(middle school)*	**AG VENTUR**	**01.0000**	**0.50**	**N**	**18001X060811**
Building Engineers I (middle school)	**BUILDING ENG 1**	**15.0000**	**0.50**	**F**	**21052X060812**
Building Engineers II (middle school)	**BUILDING ENG 2**	**15.0000**	**0.50**	**F**	**21052X060822**
Business Innovators (middle school)	**BUSINES INNOV**	**52.0101**	**0.50**	**F**	**12001X060811**
Digital Designers (middle school)	**DIGITAL DESI**	**09.0102**	**0.50**	**N**	**11001X060811**
Everyday Heroes (middle school)	**EVER HEROES**	**51.0000**	**0.50**	**N**	**14001X060811**
Teening to Adulting (middle school)	**TEEN ADULT**	**19.1001**	**0.50**	**N**	**19001X060811**

Please see CTE SCED Directory for additional information on CTE SCED, Levels, and other data elements. Please ensure that your district's SCED sequencing is correctly entered into IC to ensure data pulls are accurate.