Debbie Smith CTE Academy

Disclaimer: This document contains references to Board Policies and other documents pertaining to the rules and regulations of the Washoe County School District (WCSD). The District reserves the right to revise any of these documents during the school year. For the current version of any of these documents, please check the District's website at https://www.wcsdpolicy.net/.

***Some of these courses in this catalog are offered at Debbie Smith CTE Academy**

THE 25-26 SCHOOL YEAR CALENDAR

School begins for high school students on August 11, 2025 (Incline High School: August 18, 2025). For all other important dates, please refer to the calendars posted on the District website at: https://www.washoeschools.net/Page/20025

THE HIGH SCHOOL COURSE OF STUDY

Nevada Revised Statute (NRS) 389.018 describes the course of study which all students will automatically be enrolled in:

- 4 units of English language arts
- 4 units of mathematics, including algebra 1 and geometry
- 3 units of science, including two laboratory courses and
- 3 units of social studies, including .5 American government, .5 Economics, 1 American history and 1 world history or geography.

Exceptions: Per NRS 389.018 and Board Policy 6600, students may be granted exceptions on a limited, case-by-case basis. Exceptions may be granted under the following conditions:

1. A special education student exempted via the IEP process.
2. A student who has transferred into a WCSD high school as a junior or senior and cannot earn the 4th mathematics or 3rd science credit during the school year in their remaining school years before graduation. Determination of whether a student can earn the 4th mathematics and/or 3rd science credit will be made jointly in a conference with the student, parent, counselor, and principal or assistant principal within 10 days of enrollment.
3. If the student, the parent or legal guardian of the student and an administrator or a counselor at the school in which the student is enrolled mutually agree to a modified course of study for the student and that modified course of study satisfies at least the requirements for a standard high school diploma or an adjusted diploma, as applicable.

REQUIRED NUMBER OF CLASSES

With the high school course of study, all students are automatically enrolled in a full academic load. Part-time enrollment is not allowed. Only seniors who are on track for an Advanced Diploma and receive an exemption for merit or for cause may take a minimum 2/3 of the academic load (rounding up to the nearest whole class). Check your school's bell schedule to determine the number of classes you must take. All students are encouraged to take advantage of the numerous educational opportunities available to them during high school.

CREDITS

Most classes award one-half (.5) credit for One semester's work. The school year is divided into two semesters. Credit is awarded at the end of each semester to students who have a passing grade. Students who withdraw from a class after the 11th week of the semester will receive an "F" regardless of what the actual grade was at the time of withdrawal. The 11th week ends on October 30, 2025, in the fall and April 3, 2026, in the spring (Incline High School: November 7, 2025, and April 24, 2026). Students who are not able to complete the required work for a course or who are unable to take the final assessment may receive an "INC" (incomplete) provided there has been contact/approval by the student's counselor or administration. Incompletes must be made up within three (3) weeks after the beginning of the next semester or the incomplete becomes an "F", and no credit is awarded. It is the student's responsibility to contact the teacher to arrange to complete the necessary work.

REQUIRED COURSES/CREDITS FOR GRADUATION

The credit requirements for each diploma type are listed below:

Course Title	WCSD Standard (2025-2028)	WCSD Standard (2029-beyond)	Alternative ^ (2023-beyond)	State Advanced	College and Career Ready with Endorsement	WCSD Honors	WCSD Honors/ College & Career Ready
English	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Math (Must include Algebra 1, Geometry & Algebra 2 or equivalent)	3.0	3.0	3.0	4.0	4.0	4.0$^{\Delta}$	4.0$^{\Delta}$
Science	2.0	2.0	2.0	3.0	3.0	3.0†	3.0†
American Government	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Economics and Personal Finance	0.5	0.5	0.5	0.5	0.5	0.5	0.5
U.S. History	1.0	1.0	1.0	1.0	1.0	1.0	1.0
World History/World Geography	1.0	1.0	1.0	1.0	1.0	1.0	1.0
PE	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Arts/Humanities/CTE	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Computer Literacy	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Health	0.5	0.5	0.5	0.5	0.5	0.5	0.5
World Language	-0-	-0-	-0-	-0-	-0-	2.0*	2.0*
Electives	6.0	5.0	6.0	6.0	6.0	4.0	4.0
Flex Credit	1.0**	2.0**	1.0**	0	0	0	0
TOTALS	**23.0**	**23.0**	**23.0**	**24.0**	**24.0**	**24.0**	**24.0**
# of Honors Credits						8	8
Required Cumulative GPA				3.25 on a 4.0 scale (no rounding)	3.25 on a 4.0 scale (no rounding)	3.40 on a 4.0 scale (no rounding)	3.40 on a 4.0 scale (no rounding)

Δ Algebra 1; Geometry; Algebra 2 (or their equivalents); plus 1 or more math classes beyond Algebra 2

† Two credits must be in Biology, Chemistry, Physics, Human Anatomy & Physiology, AP Environmental Science, Zoology, Microbiology, or science credit within an AG Science CTE Program of study.

* Two credits in the same world language

** Flex credit must be one full credit of the same course of any one of the following: Level II or above CTE course in one program of study provided the prerequisite course was passed, a 4th year of mathematics Algebra 2 or higher, a 3rd or 4th year of science or a 4th year of social studies

+ This diploma also requires additional coursework and either a college or career endorsement to earn the diploma (see page 3).

^ Student must have taken the NAA assessment in grade 11 to be eligible for the alternative diploma.

NEVADA ASSESSMENTS REQUIRED FOR GRADUATION

Students must participate in the Nevada high school assessments prescribed by law as a diploma requirement for their respective graduating class. High performance on the college and career readiness and/or civics assessments may be used toward meeting requirements for state seals or endorsements awarded with a diploma.

To graduate from a Nevada high school with a Standard, Advanced, College and Career Ready, Honors or Honors/College and Career Ready diploma, students must participate in a College and Career Readiness assessment selected by the Nevada State Board of Education pursuant to Nevada Revised Statutes 390.600 and 390.610. Students will take this assessment during their junior/11th grade year.

Pursuant to Nevada Revised Statutes 390.600, to graduate from a Nevada high school with an Alternative diploma a student must participate in the Nevada Alternate assessment during their junior/11th grade year.

All students must participate in a civics examination pursuant to Nevada Revised Statute 389.009. Most students will take the required civics examination as part of the Government or Economics course.

TYPES OF DIPLOMAS OFFERED TO WCSD STUDENTS

WCSD Standard Diploma: This student will have completed a minimum of 23 credits with all requirements met and will have taken the College and Career Readiness assessment and the civics examination prescribed by the State as a diploma requirement for their respective graduating class.

Advanced Diploma: This student will have completed a minimum of 24 credits, including all requirements for a standard diploma plus one additional credit of science (total 3 credits) and one additional credit of math (total 4 credits and must include Algebra 2) with a minimum of 3.25 cumulative GPA, weighted or unweighted (no rounding) including all credits applicable toward graduation, and will have taken the College and Career Readiness assessment and the civics examination prescribed by the State as a diploma requirement for their respective graduating class.

College & Career Ready Diploma: This student will have completed a minimum of 24 credits for an Advanced Diploma and demonstrated the following:

1. Proficiency in speaking not less than 2 languages or have earned not less than two credits in one or more of the areas below:
    a. Advanced Placement courses; or
    b. International Baccalaureate courses; or
    c. Dual credit courses; or
    d. Career and Technical Education courses; or
    e. Work-based Learning or Internship courses; or
    f. World Language courses
2. Taken the College and Career Ready assessment as prescribed by the State as a diploma requirement for their respective graduating class and earned one or both endorsements:
    a. College Ready Endorsement – This endorsement will be awarded to graduates who successfully complete the college readiness assessment prescribed by the Board of Regents of the University of Nevada and receive not less than the minimum scores for initial placement into college-level English and mathematics courses prescribed by the Board of Regents of the University of Nevada.
    b. Career Ready Endorsement – This endorsement will be awarded to graduates who successfully complete a career readiness assessment, complete a CTE program of study and the Nevada Skills Certificate or obtain an industry recognized credential.
3. Taken the civics examination prescribed by the State as a diploma requirement for their respective graduating class.

WCSD Honors Diploma: This student will have:

1. Completed a minimum of 24 credits (20 required and 4 elective) including at least eight (8) qualified honors or AP/IB level classes, Algebra 2, at least two credits earned in high school in biology, physics and/or chemistry and two (2) credits in the same world language.
2. Earned a minimum 3.40 cumulative GPA, weighted (no rounding), with no course failures during the last two years, unless the course is repeated to remove the "F" from the transcript.
3. Taken the College and Career Readiness assessment and the civics examination prescribed by the State as a diploma requirement for their respective graduating class.

This diploma is designed to reward students who take and succeed in the most challenging academic program that the high school has to offer. NOTE: Students who earn an Honors Diploma automatically qualify for an Advanced Diploma.

WCSD Honors/College & Career Ready Diploma: This student will have:

1. Completed a minimum of 24 credits (20 required and 4 elective) including at least eight (8) qualified honors or AP/IB level classes, Algebra 2, at least two credits earned in high school in biology, physics and/or chemistry and two (2) credits in the same world language.
2. Earned a minimum 3.40 cumulative GPA, weighted (no rounding), with no course failures during the last two years, unless the course is repeated to remove the "F" from the transcript.
3. Taken the College and Career Ready assessment as prescribed by the State as a diploma requirement for their respective graduating class and earned one or both endorsements:
    a. College Ready Endorsement – This endorsement will be awarded to graduates who successfully complete the college readiness assessment prescribed by the Board of Regents of the University of Nevada and receive not less than the minimum scores for initial placement into college-level English and mathematics courses prescribed by the Board of Regents of the University of Nevada.
    b. Career Ready Endorsement – This endorsement will be awarded to graduates who successfully complete a career readiness assessment, complete a CTE program of study and the Nevada Skills Certificate or obtain an industry recognized credential.
4. Taken the civics examination prescribed by the State as a diploma requirement for their respective graduating class.

This diploma is designed to reward students who take and succeed in the most challenging academic program that the high school has to offer. NOTE: Students who earn an Honors/College & Career Ready Diploma automatically qualify for an Advanced Diploma.

Alternative Diploma: The Alternative Diploma is available to students with disabilities who are assessed on the Nevada Alternate Assessment (NAA). Nevada's requirements for the Alternative Diploma align to the academic coursework and the College and Career Readiness assessment (ACT) requirements for students working to achieve a standard diploma. High school students who pursue the Alternative Diploma must complete the required number of credits, pass standards-aligned courses, have taken the Nevada Alternate assessment during grade 11 and have taken the civics examination prescribed by the State or have received a waiver for the exam in accordance with their individualized education program. Students who achieve an Alternative Diploma will be able to remain in school until their 22nd birthday and those who choose to do so will continue to receive services under IDEA.

Adjusted Diploma: This student must be certified as a Special Education student. The student must have completed a minimum of 23 credits but may not have completed all the requirements for a Standard Diploma and/or may not have taken the College and Career Readiness exam prescribed by the State as a diploma requirement for their respective graduating class. The student's IEP will specify the conditions under which they will receive an Adjusted Diploma. A student who accepts an Adjusted Diploma may work toward a Standard Diploma until their 22nd birthday.

High School Equivalency or Adult Diploma: This high school does not issue an equivalency or adult diploma. For information about these programs, contact RISE Academy for Adult Achievement at 775-337-9939.

TYPES OF SEALS AND ENDORSEMENTS OFFERED TO WCSD STUDENTS

Recognition of each Seal/Endorsement earned will be affixed to the high school diploma and appear on the student's official transcript.

Nevada Career & Technical Education Endorsement/Seal: A student who satisfies the requirements for graduation from high school and successfully completes an approved sequence of courses leading to a completion course in a career and technical education program area must be awarded a high school diploma with a CTE endorsement on the front (NAC 389.815, 389.800) if the pupil has maintained a 3.0 grade point average in all classes applicable to the course of study and passed the end-of-program assessments prescribed by the Nevada Department of Education. See https://doe.nv.gov/offices/craleo/cte (Scroll down and click on Program Resources, then Course Catalog) for the current courses that comprise a course of study in each approved program area.

Nevada State Seal of Biliteracy: The Nevada State Seal of Biliteracy is an award given to high school graduates who have demonstrated proficiency in English and one or more world language(s). Students can demonstrate world language proficiency by taking one of the various language assessments offered by the WCSD.

Nevada State Seal of STEM: The Nevada State Seal of STEM (Science, Technology, Engineering and Mathematics) is an award given to high school graduates who have earned a 3.25 grade point average on a 4.0 scale or a 3.85 weighted grade point average, earned at least four credits in science, at least four credits in mathematics, and at least one credit in computer science, engineering, manufacturing, electronics, or a career and technical education program of study in information and media technologies or skilled and technical science. In addition, students must demonstrate proficiency in science and mathematics by passing one of the qualifying assessments offered in WCSD.

Nevada State Seal of STEAM: The Nevada State Seal of STEAM (Science, Technology, Engineering, Art, and Mathematics) is an award given to high school graduates who have earned a 3.25 grade point average on a 4.0 scale or a 3.85 weighted grade point average, earned at least three credits in science, at least four credits in mathematics, at least one credit in computer science, engineering, manufacturing, electronics, or a career and technical education program of study in information and media technologies or skilled and technical science and one credit in fine arts. In addition, students must demonstrate proficiency in science and mathematics by passing one of the qualifying assessments offered in WCSD.

Nevada State Seal of Financial Literacy: The Nevada State Seal of Financial Literacy is an award given to high school graduates who have earned a 3.25 grade point average on a 4.0 scale or a 3.85 weighted grade point average, earned at least three credits in a subject area in which instruction on financial literacy is provided; and either a grade of B or higher in a college-level course in which instruction on financial literacy is provided; or earn a score of gold or higher on the ACT National Career Readiness Certificate.

Nevada State Seal of Civics: The Nevada State Seal of Civics is award given to high school graduates who have earned a 3.25 grade point average on a 4.0 scale or a 3.85 weighted grade point average, earned at least three credits in social studies; and a score of at least 90% on the examination for civics required pursuant to NRS 389.009; a satisfactory score in citizenship and completes a service-learning project.

GRADES AND GRADE POINT AVERAGE

Letter grades of A, B, C, D, or F will be assigned in academic classes. Only a few courses are graded on a pass/fail basis and assigned an S (satisfactory) or U (unsatisfactory) grade. S/U grades are not included when computing grade point average (GPA). No credit is awarded for F grades. Grades become part of the permanent record three weeks after report cards are issued. The responsibility for determining a student's grade rests solely with the classroom teacher. GPA is the average of all semester course grades received in high school courses based upon a 4.0 scale. Letter grades will be transposed to the standard 4.0 scale: A = 4.0; B = 3.0; C = 2.0; D = 1.0 and F = 0.

The following formula will be used for calculating weighted GPAs: The unweighted overall GPA will be figured per WCSD Administrative Regulation 5127 using a 4.0 grading scale. For EACH SEMESTER of an honors course that a student passes, .025 will be added to the unweighted overall GPA and .050 will be added to each semester of an

International Baccalaureate (IB), Advanced Placement (AP) or Advanced Dual Credit (ADC) course, producing the weighted overall GPA.

FINAL ASSESSMENTS

Students will be required to complete a final cumulative semester assessment in all courses which award one-half (.5) credit or more. End of semester final assessments are cumulative and may consist of skill or performance activities as well as oral or written essays, depending upon the objectives of the course and the nature of the learning activities of the class. Final assessments are given during prescribed testing windows. Students absent on the day of the final assessment may be issued a grade of Incomplete (INC) and are allowed the opportunity to make up the assessment within a specified time frame. Semester final assessments will not be curved, and raw scores will be reported in the gradebook. The grade weight of the semester final assessment is set at the beginning of the school year or start of a course in accordance with district guidelines and indicated in the course syllabus. The final assessment will carry a weight of 10-20% of the overall grade and will be consistent for all sections of the same course within a school.

REPORTING TO PARENTS/GUARDIANS

Reports notifying parents/guardians of their student's progress in school are issued quarterly (approximately every nine weeks). Grade reports issued at the conclusion of the first nine weeks of each semester are Progress Reports indicating the level of achievement of the student at that time. The academic grade issued at the end of each semester reflects the student's work for the entire semester and is not an average of two nine-week grades. These semester academic grades, along with the credits earned at the end of each semester are posted to the student's permanent record. In addition to these reports which are issued to every student, students whose work has deteriorated significantly or whose performance puts them in jeopardy of failing will receive an Academic Warning Notice halfway between each official report (at both quarter & semester). Report Cards and Progress Reports are distributed to students after the close of the reporting period, except for the final reporting period when Report Cards are mailed home. Check the school calendar for specific dates.

Infinite Campus is the District's online teacher, parent/guardian, and student communication program. Infinite Campus is an easy way to keep up to date by using a secure online system that allows parents/guardians and students to check grades, communicate directly with teachers via e-mail, check on homework assignments, and monitor attendance. Information on how to login can be obtained from the school. To login to the Infinite Campus portal, navigate to: https://washoenv.infinitecampus.org/campus/portal/washoe.jsp. Additionally, there is a smart phone application for students and parents available through the iTunes App Store or Google Play for Android.

Teachers are the best sources of information about student work in a particular class. Parents/guardians who have questions about any of the procedures for monitoring their student's progress in school should call their student's counselor for more information.

AUDITING A COURSE

Auditing a course allows a student to take a class without the benefit of a grade or credit for a course. A student may choose to audit a course provided they receive permission from the high school administrator and the teacher. Advanced Placement (AP) courses may not be audited. Students who are enrolled in a course on an audit basis will not earn credit for the course. To remain in good standing in an audited course, students must complete all assignments and exams and abide by all attendance policies.

A student may be removed from an audited course at the discretion of the high school administration and the teacher. An academic grade of "AU" ("Audit") and a regular A-F citizenship grade will be assigned to students in an audited course. A student may not drop a course to an audit after the 11th week of the semester. Audit is not an option for home school, private school, or charter school students who are accepted to participate in a course at the high school. Whether or not a school allows students to audit courses is a site decision.

WITHDRAWING FROM CLASS

A student withdrawing from a class during the first 11 weeks of the semester will receive no credit. After the 11th week a student withdrawing from a class shall receive a grade of "F" and no credit. The withdraw deadlines for the 25-26 school year are October 30 and April 3. (Incline High School: November 7 and April 24). These deadlines do not apply to dual enrollment or concurrent enrollment courses. Please refer to the college website for those dates.

REPEATING A CLASS

A student may repeat a course provided they receive permission from the high school administration or an identified designee. A student shall not receive additional credit for the repeated course or a "content equivalent" course. The higher grade shall be recorded on the permanent record and the lower grade replaced with the notation "RP" (repeated).

If a student earns an "F" in a course, any course which meets the same requirement for graduation may be taken to meet that requirement. The "F" remains on the permanent record unless the repeated course is the same course as the one in which the student received an "F" grade. To replace an "F," the "same course" may include a modified title such as "OLE," or "Correspondence," etc. A regular course may not be used to repeat an Honors or Advanced Placement course to raise a grade when both courses can be taken for credit.

STANDALONE INTERNSHIP FOR ACADEMIC CREDIT

Work-based learning is governed by regulations and policies as administered by the Nevada Department of Education and is a continuum of experiences defined as Career Exploration, Career Preparation and Career Training. Recommended for 11th and 12th graders, these experiences can include job shadows, school-based enterprises, standalone internships which result in academic credit, and noncredit-bearing internships which are integrated into another course.

As a component of its work-based learning framework, WCSD offers two types of standalone internships for academic credit, suggested for students in grades 11 and 12. These opportunities are most frequently offered through the District, but may also be offered at the school site.

Standalone internships for academic credit are work-based learning experiences that place students in a real workplace environment to develop and practice career-related knowledge and skills for a specific career field related to students' career interests, abilities, and goals. They are connected to classroom learning and are accompanied by structured reflection activities. Students participating in these experiences are guided by a formal, written Training Plan and Training Agreement that defines specific academic and workplace skills to be mastered. As a course, standalone internships for academic credit require 60 hours of coursework resulting in .5 elective credit.

Please note:

- Students may enroll in a standalone internship course (group or individual) on a semester basis.
- Students may apply one or more credits toward the total number of credits required for graduation (per NRS 389.167).
- Students earn a letter grade which will be applied to the GPA.
- To earn a passing grade, students must complete all requirements for credit by five school days prior to the end of the final grading period of the semester.

Group:

Group internships are structured more as classes and organized by career field, facilitated by a teacher with knowledge of the industry. Groups of 8-24 students engage in visits to a variety of industry sites, engage in projects associated with the career field, and gain an understanding of the knowledge, skills and education needed for specific pathways within the field. To earn credit, students must attend orientation, all scheduled classes, meet specific learning outcomes, complete assignments, and participate in a final project presentation. Group internships start the second week of each semester and end the week prior to finals.

Individual:

Individual internships are structured to meet a specific career interest. Students are assigned to and supervised by an internship teacher or other staff member, attend scheduled classes throughout the semester, and complete internship

hours at a work site as scheduled by an employer host. To earn credit, students must complete all requirements. Individual internships start the second week of each semester and end the week prior to finals.

Internship Request & Enrollment Requirements:

- Students must complete an enrollment process by deadlines as published by the Department of Signature Academies and Career Technical Education (SACTE) or the school sites.
- These experiences are recommended for students in grades 11 and 12.
- Health insurance coverage is recommended, but not required.
- Students must attend all class sessions and perform service at job sites as scheduled.
- It is important to have reliable transportation to and from work sites.
- Most standalone internship hours will be served outside the school day. With documented school and parent/guardian permission, students may complete internship hours during the school day.

FOR MORE INFORMATION: Contact your high school counselor, CTE teacher or visit the Career and Technical Education website at http://www.washoeschools.net/sacte.

CTE WORK EXPERIENCE

Students may take a course in CTE Work Experience. This is a paid position where the student is working in a job related to a CTE program of study. Technical and employability skills learned in the classroom are incorporated into the student's learning plan and applied on the job. A training plan and a signed training agreement are required. CTE work experience should be a minimum of hours worked equal to the number of hours required for any other course of that same credit, usually 60 hours per half credit. CTE students must be enrolled in or have completed at least two years of a CTE program and be 16 years old (NAC 389.564-389.566).

WORK STUDY CREDIT

WCSD high school students may apply to earn elective high school credit for working at a paid job in which they receive a pay stub with hours worked and applicable state and federal deductions listed. Each student is responsible for obtaining their own job. Credit may be earned at one-half (.5) credit for 180 hours of active work participation per semester or summer. Students earn a grade of S/U and it is not calculated in their grade point average. Students can earn a maximum of four work study credits.

FOR MORE INFORMATION: Contact your high school counselor.

CREDIT BY EXAM

High school students who wish to challenge certain high school courses may take a Credit by Exam (CBE). There is a fee for the exams. A passing score will earn the student an ungraded (S/U) high school credit.

College Level Examination Program (CLEP) exams may also be used for credit by exam. A score of 50 is passing and passing scores are eligible for 1.0 high school credit.

FOR MORE INFORMATION: Contact your high school counselor.

EXTENDED STUDIES PROGRAMS

Full program and registration information is available at http://washoeschools.net/Domain/78. All grades issued by Extended Studies are posted to the student transcript in Infinite Campus at the end of each semester/summer. All programs are scheduled in accordance with the WCSD Balanced Calendar.

Community Service (0.5 credit):

- Semester course: application and course completion must occur within the dates of each semester and/or summer.
- 60 hours of volunteering experience; S/U grade

The proposed community service must be approved by Extended Studies three (3) weeks prior to registration. A supervisor for the organization benefiting from the community service must also provide his/her approval and phone number. The supervisor is responsible for verifying all volunteer hours. Volunteering at your church, home, or for relatives does not qualify for community service credit. Hours earned prior to the completion of registration are not counted.

PE Options (.5 credit PE exemption):

- By participating in the PE Options program, students will earn an exemption from earning .5 PE credits in high school. This means students will still need to earn the same number of credits for a diploma, but of those credits, .5 credit of PE will not be a requirement.
- The application and course completion must occur within the dates of each semester and/or summer.
- Students must complete 60 hours to earn the exemption. There is no grade given.
- A maximum of four PE exemptions may be earned through this course. This course may not be used to raise a passing grade or replace a failing grade in PE.
- Hours completed prior to the completion of registration are not counted.

There are two options for students who wish to earn a PE exemption through Extended Studies:

1. Enroll in a gym/sports center where group classes are taught by an instructor certified in the activity being offered. Only gyms/centers approved by Extended Studies are available for students wanting to participate in this option. The gym/center documents and monthly attendance reports are submitted by the student to Extended Studies. Please refer to the Extended Studies website for a list of approved facilities.
2. Designed for those students participating in a sport at the pre-professional (e.g. club, travel, competitive etc.) level at the national or regional level of competition. An agreement form signed by the student, parent, and coach must be completed. Please refer to the Extended Studies website for a list of approved sports.

Police Explorer Program (.5 credit per semester)

The Washoe County School Police Jr. Cadet Class is open to all high school students registered in Washoe County School District. Students in the class will learn about law enforcement and earn high school credit at the same time. The class meets in the evenings at a location to be determined. Topics include history of law enforcement, case law, traffic stops, building searches, radio traffic, and drug laws. Students will also have to complete 10 hours of community service each semester while enrolled in the course. The community service will originate from School Police events. This course is a great opportunity for students to earn credits, learn about becoming a police officer and develop interpersonal and leadership skills that will help students with their personal and professional life.

The course is available by application only. For more information, visit the School Police webpage: https://www.washoeschools.net/Page/2148

COLLEGE OPPORTUNITIES FOR HIGH SCHOOL STUDENTS

The following paragraphs will briefly describe some of the opportunities which are available to students through which they can get a head start on college by earning placement in, waiver of, and/or credit for college courses while still in high school. It is important for students to check with their intended post-secondary institution and, if applicable, the NCAA, to determine if that school/program will accept the courses.

Advanced Placement

Advanced Placement (AP) is one of many programs sponsored by the College Board. AP classes are college-level courses offered to high school students at their high school by their own high school teachers. In May of each year, students in AP classes take a three-hour comprehensive exam that is written and scored by the College Board. The exams are scored on a scale of 1 to 5. An exam score of 3 is generally considered "qualifying" and many colleges will give college credit for the course to students who earn 3, 4, or 5 on the exam. Some colleges only give credit for a 4 or 5 score; some waive a college requirement but do not award credit; some allow students with high exam scores to be eligible to take the college's own placement exams and thus earn credit or waivers. Because each college has its own AP policy, it is important for students to contact the admissions office at their post-secondary institution of choice to

determine what type of credit/waiver will be available. To check a college's AP policy, go to https://apstudent.collegeboard.org/creditandplacement/search-credit-policies

WCSD course titles which include the notation "AP" or Advanced Placement are year-long courses and all requirements must be met before the "AP" designation is awarded. Students register for AP courses during regular high school pre-registration each spring. Exams are given on a predetermined schedule in May of each year at an approximate cost of $99 per exam. For the 2025-2026 school year, the Washoe County School District will pay this fee. Students do not have to be enrolled in an AP course to take an AP Exam, but students in WCSD who are enrolled in a course with "AP" in the title are **required to take the exam in that course per Administrative Regulation 6501.** Exam results are available to students and colleges in July following the exam.

International Baccalaureate (Wooster HS only)
The International Baccalaureate (IB) offers students the opportunity to take internationally developed college level coursework at their high school taught by their teachers. Students enrolled in the IB programs, offered at Wooster High School, take end of course examinations each May. These examinations are written and scored by external IB examiners. Exams are scored on a 1(lowest) to 7 (highest) scale. Because each college (and often each department within a college or university) has its own IB policy, it is important for students to contact the admissions office at their post-secondary institution of choice to determine what type of credit/waiver will be available.

Exams are given on a predetermined schedule in May of each year at an approximate cost of $120 per exam. For the 2025-2026 school year, the Washoe County School District will pay this fee. Students in WCSD who are enrolled in a course with "IB" in the title are **required to take the exam in that course per Administrative Regulation 6501.** Exam results are available to students and colleges in July following the exam. For more information, visit the website at www.woostercolts.com or call Wooster HS at 775-321-3160.

CTE College Credit
CTE College Credit is free college credit that can be earned by completing a Career & Technical Education (CTE) program of study (2 - or 3-year program). Most CTE programs of study are aligned with college courses, offering the opportunity to earn between 3 and 18 college credits.

Registration: Students can register for CTE courses through their high school counselor. CTE programs of study are offered at every high school in WCSD and are taught on the high school campus.

Participation Requirements: Any student may participate in a CTE program of study at the entry level (Level 1). Continuation to the intermediate (Level 2), and advanced (Level 3)/or complimentary course (CC) classes require completing all prior levels. CTE programs of study can be 2- or 3-year programs of study.

Fees/Costs: CTE College Credits are FREE to students. They do not require any additional time or work beyond that of the high school course. To determine how many college credits are available for a specific program of study, please check the individual college websites:

Truckee Meadows Community College: http://www.tmcc.edu/cte-college-credit/

Western Nevada College: https://wnc.edu/advising/high-school-programs/cte-college-credit/index.php

Great Basin College: http://gbcnv.edu/cte/

College of Southern Nevada: https://www.csn.edu/cte

Earning College Credit: To earn CTE College Credit, a student must:

1. Be enrolled in a CTE program of study through the completion year (2 - or 3-years)
2. Earn a B average in the CTE program of study courses (4 or 6 semesters)
3. Achieve a passing score on two assessments: Technical Skills and Employability Skills

When students successfully complete the CTE program of study requirements (above), CTE College Credit may be awarded. Once accepted, these credits are added to the student's transcript through the Nevada community college from which the student chooses to accept the credit and can be transferred to other 2- and 4-year postsecondary institutions.

Not all colleges accept courses earned through the CTE College Credit program. It is important to check with the admissions office at your intended college/university.

FOR MORE INFORMATION: Contact your high school counselor, visit the Nevada Department of Education website at https://doe.nv.gov/CTE/College_Credit/ Career and Technical Education website at http://www.washoeschools.net/sacte, or call the Signatures & CTE Department at 775-327-3945.

College Dual Credit

Dual credit is an opportunity for high school students to attend college courses and earn college credits while still in high school. Dual credit college courses are those offered by a Nevada community college or university (such as TMCC, WNC, GBC, UNR, and UNLV). There are two kinds of dual credit programs offered to our students: Dual Enrollment and Concurrent Enrollment. All dual credit courses must be on the District's approved list and will count as either academic or elective credit depending on the course.

Successful completion of a college course will result in the following credit on the high school transcript. Grades earned in a college course become part of the student's GPA at both institutions.

- 1-2 credit college course = .5 high school credit
- 3-5 credit college course = 1 high school credit

Important Note: Not all colleges accept courses taken through dual credit programs. It is important to check with the admissions office at your intended college/university.

Dual Enrollment:

These are courses taught by college/university instructors. In most cases, high school students will attend class on the college campus, in a web-based format or as a hybrid (combination of face-to-face and web-based).

- Registration: Students can register for dual enrollment college courses through their high school counselor. To receive credit at both the high school and college, students must complete a specific **Application for Dual Credit** prior to registering for a dual enrollment class and submit it to the high school. This is in addition to completing and submitting a college admission application as a non-degree student.

- Participation Requirements: High school students participating in dual enrollment courses must meet the required pre-requisites for specific classes, meet the minimum high school GPA, attend an orientation session, as well as other college requirements for participation.

- Fees/Costs: Students are responsible for the application, tuition, and class fees. For the 2025-2056 school year, the fees for Nevada institutions are as follows: Universities: $150 per credit and Community Colleges: $87.50 per credit. There are additional fees required for some classes. In some cases, there may be scholarship funding to offset these costs. *This is not guaranteed.*

- Drop Dates: These dates are set by the college. Please refer to the specific college for applicable dates as they differ from the WCSD dates.

Concurrent Enrollment:

These are college courses taught by high school instructors. In most cases, high school students will attend class on the high school campus, in a web-based format or as a hybrid (combination of face-to-face and web-based).

- Registration: Students can register for dual enrollment college courses through their high school counselor. To receive credit at both the high school and college, students must complete a specific **Application for Dual Credit** prior to registering for a dual enrollment class and submit it to the high school. This is in addition to completing and submitting a college admission application as a non-degree student.

- Participation Requirements: High school students participating in dual enrollment courses must meet the required pre-requisites for specific classes, meet the minimum high school GPA, maintain consistent attendance, attend an orientation session, as well as other college requirements for participation.

- Fees/Costs: For the 2025-2026 school year, the District will pay the tuition for these classes.

- Drop Dates: These dates are set by the college. Please refer to the specific college for applicable dates as they differ from the WCSD dates.

FOR MORE INFORMATION: Contact your high school counselor.

GOVERNOR GUINN MILLENNIUM SCHOLARSHIP

In 1999, Governor Kenny Guinn's Millennium Scholarship initiative was enacted into law by the Nevada Legislature. Section 396.911 of the Nevada Revised Statutes created the Millennium Scholarship Trust Fund to be administered by the State Treasurer. Later that year, the Nevada System of Higher Education's Board of Regents adopted policy and procedure guidelines for the administration of the scholarship. Through the successful completion of a rigorous program of study at Nevada high schools, our state has seen a significant, positive impact – more than double the numbers of students are attending our colleges and universities since the program began. Please visit: http://www.nevadatreasurer.gov/GGMS/GGMS_Home/ for specific information regarding GPA and course requirements as well as NSHE Policies and Procedures.

TITLE IX

Title IX guarantees equal access to courses and programs for both male and female students. Title IX further states that an institution may not provide any course or otherwise carry out any of its educational programs or activities separately based on sex or require or refuse participation therein by any of its students on such a basis, including health, physical education, industrial, business, vocational, technical, home economics, music, and adult education courses.

NOTICE OF NON-DISCRIMINATION

The Washoe County School District is committed to nondiscrimination on the basis of race, color, national origin or ethnic group identification, marital status, ancestry, sex, sexual orientation, gender identity or expression, genetic information, religion, age, mental or physical disability, military or veteran's status in educational programs or activities, and employment as required by applicable federal and state laws and regulations. No District employee, including, without limitation, administrators, faculty, or other staff members, nor students shall engage in acts of bullying, harassment, or discrimination on the premises of any public school, school-sponsored event, or school bus in the District. Prohibited behaviors include cyber-bullying, sexual harassment, hazing, intimidation, and retaliation.

ENGLISH

English 1-2 **Course #1201-1202**
Foundations in English 1-2 ** **Course #7751-7752**
Full year = 1 credit
This one-year course will provide the fundamentals of communication skills – reading, writing, speaking, and listening-- using the Nevada Academic Content Standards (NVACS) to guide and focus instruction. Through the reading of a variety of high-quality contemporary works, classical literature, and literary nonfiction, students will continue to develop the reading comprehension skills and reading strategies required to be highly literate individuals. Students will engage in both short and long-term writing assignments in three main genres--argument, informative/explanatory, and narrative--as well as use writing to comprehend text. Language instruction will focus on the balance between rules and manipulating language for the purpose of craft. Research and technology will be embedded throughout the course. The course will be taught using a variety of teaching techniques from direct instruction to small group work with a focus on meaningful student discussion. ** The Foundations in English course is designed for high school students receiving special education services.

English 1-2 (H) **Course #1203-1204**
Full year = 1 credit (Honors)
This one-year course, designed for the highly motivated student, has strong compositional and critical thinking demands. The course will focus on reading for greater comprehension and pleasure, writing clearly and concisely for different purposes, refining grammar and fluency skills, and developing formal vocabulary. Basic skills in grammar and composition are assumed. Emphasis will also be placed on demonstrating presentation, research, and problem-solving skills through unit projects. Literature will include short text from a variety of sources as well as novels. The class stresses the writing process: writing for different purposes and audiences; grammar and sentence structure as tools for individual writing skills development; language usage; literary terms and genres; library research; vocabulary improvement; encouragement of creativity; and the development of critical thinking. Students are expected to demonstrate an above average maturity level, demonstrate a positive attitude toward education and work tasks, and be cooperative in group learning situations.

English 3-4 **Course #1211-1212**
Foundations in English 3-4 ** **Course #7755-7756**
Full year = 1 credit
This one-year course will continue to develop the fundamentals of communication skills – reading, writing, speaking, and listening—using the Nevada Academic Content Standards (NVACS) to guide and focus instruction. Through close reading of a variety of grade-appropriate, high-quality contemporary works, classical literature, and literary nonfiction, students will continue to develop the reading comprehension skills and reading strategies required to be highly literate individuals. Students will engage in both short and long-term writing assignments in three main genres--argument, informative/explanatory, and narrative--as well as use writing to comprehend text. Language instruction will focus on the balance between rules and manipulating language for the purpose of craft as well as building an extensive vocabulary. Research and technology will be embedded throughout the course. The course will be taught using a variety of teaching techniques from direct instruction to small group work with a focus on meaningful student discussion. ** The Foundations in English course is designed for high school students receiving special education services.

English 3-4 (H) **Course #1213-1214**
Full year = 1 credit (Honors)
This one-year course, designed for the highly motivated student, focuses on skills and strategies in reading, writing, speaking, listening, research, vocabulary, grammar, and usage. Students will read at least five literary forms: short story, autobiography, novel, drama, and poetry. Student writing will be varied, including personal narrative, literary analysis, creative writing, poetry, and research. The course will include a variety of teaching techniques from direct instruction to small group work.

English 5-6 **Course #1231-1232**
Foundations in English 5-6 ** **Course #7729-7730**
Full year = 1 credit
This Nevada Academic Content Standards (NVACS) aligned, one-year course will strengthen and expand students' skills in reading, writing, speaking, and listening necessary for college and career readiness in a twenty-first century, globally competitive society. Through reading of a variety of grade-appropriate, high-quality contemporary works, seminal U.S. documents, the classics of American literature, and literary nonfiction, students will gain the capacity to challenge complex texts in all subjects. Students will engage in both short and long-term writing assignments in three main genres--argument, informative/explanatory, and narrative--as well as use writing to comprehend text. Language instruction will focus on the balance between rules and manipulating language for the purpose of craft; and students will continue to build an extensive vocabulary. Research and technology will be embedded throughout the course. The course will be taught using a variety of teaching techniques from direct instruction to small group work with a focus on meaningful student discussion. ** The Foundations in English course is designed for high school students receiving special education services.

English 7-8 **Course #1251-1252**
Foundations in English 7-8 ** **Course #7787-7788**
Full year = 1 credit
This Nevada Academic Content Standards (NVACS) aligned, one-year course will reflect the culmination of skills in reading, writing, speaking and listening necessary for college and career readiness in a twenty-first century, globally competitive society, and reflects the integration of the Nevada Academic Content Standards and student learning outcomes from Early College English. The course will focus on both short and long-term writing assignments in three main genres--argument, informative/explanatory, and narrative—necessary to prepare students for college-level writing. Additionally, writing will be generated from the critical reading of a variety of grade-appropriate, high-quality contemporary works, classical literature, and literary nonfiction primarily focused on British and world authors. Students will continue to gain literary and cultural knowledge and the capacity to challenge complex texts in all subjects. Students at this level should have mastered the conventions of Standard English and language instruction should focus on manipulating language for the purpose of craft. Students will continue to build an extensive vocabulary. Research and technology will be embedded throughout the course. The course will be taught using a variety of teaching techniques from direct instruction to small group work with a focus on meaningful student discussion. ** The Foundations in English course is designed for high school students receiving special education services.

AP English Literature **Course #1263-1264**
Full year = 1 credit (Advanced Placement)
Advanced Placement Literature and Composition is an intensive course for the highly motivated student designed to parallel introductory literature and composition courses on the university level. The course focuses on skills and strategies in reading, writing, speaking, listening, research, vocabulary, and usage. AP English is a survey of British literature—an examination of tragedy, short fiction, novel, and poetry—from the Old English period to the 20th century. The writing assignments focus on, but are not limited to, literary analysis. The two primary goals of AP English Literature are to prepare students for the Advanced Placement examination and for the academic rigors of university life. Students are required to take the AP exam in May. All AP exams have a cost associated with them.

AP English Language **Course #1243-1244**
Full year = 1 credit (Advanced Placement)
This advanced placement, college-level course centers on the study of the craft of writing. Students will analyze the rhetoric and style of a variety of texts, including novels, memoirs, literary essays, contemporary articles, speeches, drama, and historical, political, and philosophical texts. The course emphasizes argumentative, expository, and analytical writing as well as personal and reflective writing. The primary goals of the course are to prepare students for the AP Language and Composition Exam and the rigors of college writing across the curriculum. A passing score on the exam may qualify the student for up to Full year of credit or advanced placement in college composition classes. This rigorous course assumes a high level of competence and confidence in reading and writing skills and is designed

for the highly motivated student. Students are required to take the AP Exam in May. All AP exams have a cost associated with them.

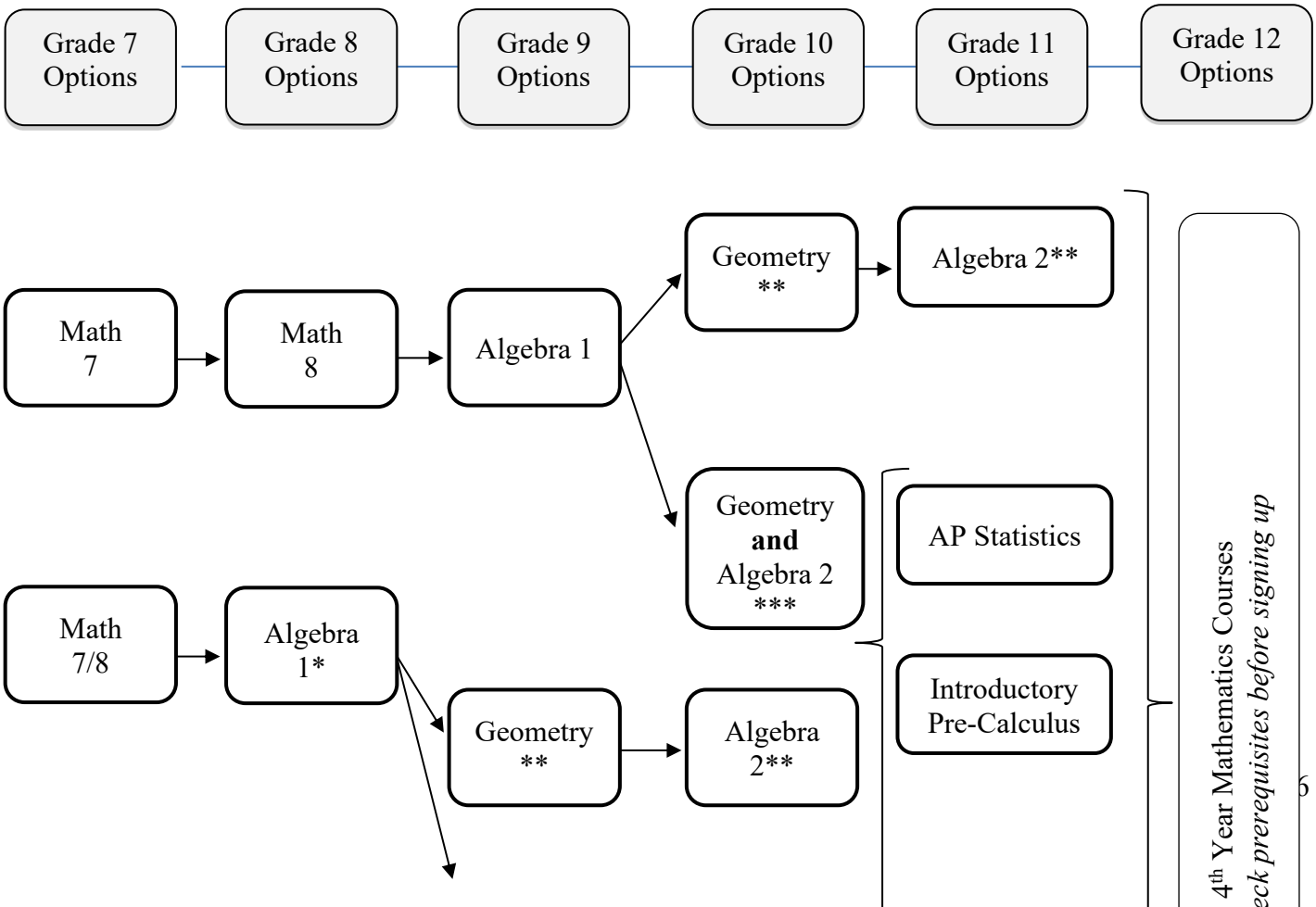
College Concurrent Enrollment Courses

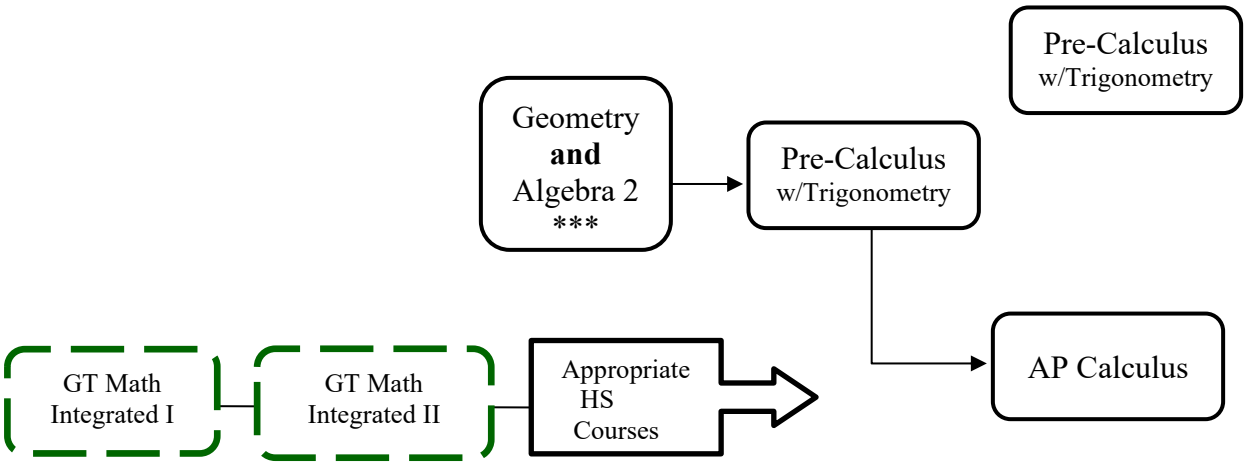
Concurrent Enrollment - English 101 – Composition I
Full year = 1 credit (Advanced Dual Credit) **Course #14151-14152**
One semester = 1 credit (Advanced Dual Credit) **Course #14169**
This college course is a writing intensive course designed to strengthen college level writing skills, with particular attention to persuasion, analysis, synthesis, and an introduction to research methodologies. Focus on process through drafting, revising, and editing is emphasized. Conventions of standard English are reviewed. Additionally, critical reading strategies of college level texts are developed. Expectations for this course are determined by the partner University/College. To be enrolled in the class, students must maintain consistent attendance.

Concurrent Enrollment - English 102 – Composition II
Full year = 1 credit (Advanced Dual Credit) **Course #14159-14160**
One semester = 1 credit (Advanced Dual Credit) **Course #14170**
Prerequisite: Successful completion of English 101
This college course is a continuation and extension of English 101 with an exploration of essay forms with particular attention to interpretation, analysis, and synthesis, while emphasizing analytical reading and writing, critical thinking, and research methodologies. Expectations for this course are determined by the partner University/College. To be enrolled in the class, students must maintain consistent attendance.

MATHEMATICS COURSE SEQUENCE

This indicates the most common pathways and is not exhaustive





* High School credit is not awarded for high school level courses taken prior to 9th grade. Middle School students must earn a qualifying grade in Algebra 1 to progress on to Geometry

** Students choose from two class options to fulfill this requirement – Geometry or Formal Geometry (H) and Algebra 2 or Honors Algebra 2 (H)

***Students can concurrently enroll in Formal Geometry and Honors Algebra 2 for acceleration.

All students must earn credits in Algebra 1, Geometry and Algebra 2 before enrolling in any of the senior level courses. Some senior level courses have other pre-requisites (see the Course Descriptions).

Algebra 1 **Course #2201-2202**
Foundations in Algebra 1** **Course #7769-7770**
Full year = 1 credit
This is a one-year course designed to teach the fundamentals of elementary algebra. This course lays the foundation of knowledge and skills to meet the Nevada Academic Content Standards in Mathematics (NVACS) for high school students. A strong foundation in algebra is needed for subsequent mathematics courses. The NVACS studied includes all 5 Domains: Relationships between Quantities and Reasoning with Equations, Linear and Exponential Relationships, Descriptive Statistics, Expressions and Equations and Quadratic Functions and Modeling. Throughout the year, students will be expected to develop the ability to reason and communicate mathematically, apply learned concepts to new problem-solving situations and exhibit increased confidence in their ability to solve mathematical problems. ** The Foundations in Algebra 1 course is designed for high school students receiving special education services.

Geometry **Course #2211-2212**
Foundations in Geometry** **Course #7771-7772**
Full year = 1 credit
Prerequisite: Successful completion of all semesters of Algebra 1 (or all semesters of the 2-year course).
This is a one-year course that will cover the following topics through emphasis on basic geometric proofs, axioms, postulates and theorems, plane geometric figures, right triangles with trigonometry, constructions, congruence and similarity, circles, coordinate and transformational geometry, inductive and deductive reasoning, three-dimensional geometry, and probability. Emphasis is on the development of deductive reasoning skills. Students will also review algebraic techniques, work on real-world math applications, and use technology when possible. ** The Foundations in Geometry course is designed for high school students receiving special education services.

Formal Geometry (H) **Course #2215-2216**

Full year = 1 credit (Honors)

Prerequisite: Successful completion of all semesters of Algebra 1.

This is a one-year course that will cover the following topics through emphasis on basic geometric proofs, axioms, postulates and theorems, plane geometric figures, right triangles with trigonometry including Law of Sine and Cosine, constructions, congruence and similarity, circles, coordinate and transformational geometry, inductive and deductive reasoning, three-dimensional geometry, and probability. Emphasis is on the development of deductive reasoning skills. Students will also review algebraic techniques, and work on real-world math applications. An ability to think abstractly is critical for successful completion of this course.

Algebra 2 **Course #2221-2222**

Foundations in Algebra 2** **Course #7779-7780**

Full year = 1 credit

Prerequisite: Successful completion of all semesters of Algebra 1 and Geometry or Formal Geometry.

This is a one-year course, which strengthens and expands on the techniques and concepts learned in Algebra 1. This course will reinforce the student's problem solving and algebraic skills in preparation for advanced mathematics courses. The major topics of study are relations and functions, domain and range of parent functions systems of nonlinear equations, polynomials and polynomial functions, complex numbers, quadratic equations, rational and radical functions, exponential and logarithmic functions, statistics, and matrices. Throughout the year, students will continue to develop the ability to reason and communicate mathematically, apply learned concepts to new problem-solving situations, and exhibit increased confidence in their ability to solve mathematical problems. ** The Foundations in Algebra 2 course is designed for high school students receiving special education services.

Algebra 2 (H) **Course #2227-2228**

Full year = 1 credit (Honors)

Prerequisite: Successful completion of all semesters of Algebra 1 and Geometry or Formal Geometry.

This is a one-year course, designed for students with a strong understanding of the concepts learned in Algebra 1 and Geometry. This course will build upon the student's problem solving and algebraic skills in preparation for advanced mathematics courses through a course that addresses the rigor expected of an honors level course. The major topics of study are relations and functions, domain and range of parent functions, systems of nonlinear equations, polynomials and polynomial functions, complex numbers, quadratic equations, rational and radical functions, exponential and logarithmic functions, statistics, and matrices. Throughout the year, students will continue to develop the ability to reason and communicate mathematically, apply learned concepts to new problem-solving situations, and exhibit increased confidence in their ability to solve challenging mathematical problems.

Introductory Precalculus **Course #2049-2050**

Full year = 1.0 credit

Prerequisite: Seniors with successful completion of Algebra 2 in both semesters.

This is a one-year course designed to follow Algebra 2. The major topics of semester one of study are polynomials and rational functions, exponential and logarithmic functions, domain and range of advanced functions, the use of notation in set, interval and inequality, composition of functions, complex numbers, powers and roots, polynomial equations and inequalities, rational equations and inequalities. The major topics of semester two are matrix operations and applications, system of linear equations in two and three variables, conic sections, sequences and series, probability, and limits.

AP Precalculus **Course #2233-2234**

Full year = 1 credit (Advanced Placement)

Prerequisite: Successful completion of all semesters of Algebra 1, Geometry or Formal Geometry and Algebra 2 of Algebra 2 (H).

This is a one-year Advanced Placement level course. The course framework includes two essential components: Mathematical Practices and Course Content. Throughout this course, students develop and refine symbolic manipulation skills, including solving equations and manipulating expressions, for the many function types. Students also learn that functions and their compositions, inverses, and transformations are understood through graphical, numerical, analytical, and verbal representations, which reveal different attributes of the functions and are useful for

solving problems in mathematical and applied contexts. The skills learned in this course are widely applicable to situations that involve quantitative reasoning.

Explorations in Data Science **Course #2235-2236**
Full Year = 1 credit
Prerequisite: Successful completion of all semesters of Algebra 1, Geometry and Algebra 2.
This class will introduce students to the main ideas in data science through tools such as Excel spreadsheets, Python, Data Commons and Tableau. Students will learn to be data explorers in project-based units, through which they will develop their understanding of data analysis, sampling, correlation/causation, bias and uncertainty, probability, modeling with data, making and evaluating data-based arguments, the power of data in society, and more. At the end of the course students will have a portfolio of their data science work to showcase their newly developed abilities.

AP Calculus AB **Course #2255-2256**
Full year = 1 math credit (Advanced Placement)
Prerequisite: Successful completion of all semesters of Pre-Calculus with Trigonometry.
Advanced Placement Calculus AB is a one-year course designed for those students wishing to study mathematics on the collegiate level. The major topics of study are functions, limits and continuity, derivatives and applications of the derivative, integrals, techniques of integration, and applications of the integral, and inverse functions. This is for students who have completed the equivalent of four years of college preparatory mathematics. Students apply skills and information acquired in previous math courses. Students are required to take the AP exam in May. All AP exams have a cost associated with them.

AP Calculus BC **Course #2257-2258**
Full year = 1 credit (Advanced Placement)
Prerequisite: Successful completion of all semesters of Pre-Calculus with Trigonometry.
Advanced Placement Calculus BC is a one-year course designed for those students who have completed the equivalent of four years of college preparatory mathematics and have working knowledge of functions: linear, polynomial, rational, exponential, logarithmic, trigonometric, inverse trigonometric and piecewise-defined. The major topics of study are functions, graphs and limits including parametric, polar and vectors, derivatives and applications of derivatives, integrals, applications of integrals, and fundamental Theorem of Calculus, anti-differentiation and applications of anti-differentiation, and polynomial approximations and series. Students are required to take the AP exam in May. All AP exams have a cost associated with them.

College Concurrent Enrollment Courses

Concurrent Enrollment - Math 126 – Pre-Calculus I
One semester = 1 credit (Advanced Dual Credit) **Course #14226**
Full year = 1 credit (Advanced Dual Credit) **Course #14251/14252**
Prerequisite: Successful completion of all semesters of Algebra 2
This college course focuses on the study of functions, their properties, their graphs, and applications including polynomial, radical, rational, exponential, and logarithmic functions. The course also covers the solving of equations, systems of equations, and inequalities. Expectations for this course are determined by the partner University/College. To be enrolled in the class, students must maintain consistent attendance.

Concurrent Enrollment - Math 127 – Pre-Calculus II **Course #14227**
One semester = 1 credit (Advanced Dual Credit)
Prerequisite: Successful completion of Math 126 or Pre-Calculus with Trigonometry with a C or better.
This college course is a continuation of Math 126. It includes the study of circular functions, their graphs and applications, analytic trigonometry, the coordinate geometry of lines and conics and elementary vector algebra. Computer use and a graphing calculator may be required. Expectations for this course are determined by the partner University/College. To be enrolled in the class, students must maintain consistent attendance.

polynomial functions; rational functions; function operations, inverses & radical equations; exponents & logarithms; systems; statistical data; and trig functions. In addition to the Algebra 2 concepts, this course will cover angles and radian measure; trig functions; vectors; laws and graphs of trig functions; polar coordinates and their graphs; and trig identities and equations. This course will strengthen the student's problem solving and algebraic skills in preparation for advanced mathematics courses. Throughout the year, students will be expected to continue to develop the ability to reason and communicate mathematically, applying learned concepts to new problems.

Mathematics-Based Elective Courses

Math Support **Course #2023-2024**

Full year = 1 credit

Math Support is a targeted intervention course designed to help students strengthen their foundational math skills and build confidence in their ability to succeed in mathematics. This course provides additional instruction, guided practice, and individualized support to reinforce concepts being taught in students' core math classes. The focus is on enhancing understanding in key areas such as arithmetic, algebra, geometry, and problem-solving strategies.

Algebra 1 Support **Course #7059-7060**

Full year = 1 credit

Algebra 1 Support is a supplemental course designed to assist students in mastering the concepts and skills essential for success in Algebra I and beyond. This course provides targeted instruction and support to help students build a solid foundation in algebraic principles, including equations, inequalities, functions, and graphing. Emphasis is placed on both understanding the underlying concepts and developing problem-solving strategies.

Geometry Support **Course #2025-2056**

Full year = 1 credit

Geometry Support is a targeted intervention course designed to help students strengthen their understanding of geometric concepts and improve their problem-solving skills in geometry. This course provides additional support to reinforce essential topics such as properties of shapes, theorems, proofs, congruence, similarity, trigonometry, and measurement.

Algebra 2 Support **Course #2031-2032**

Full year = 1 credit

Algebra 2 Support is a specialized course designed to provide students with the additional help and resources needed to succeed in Algebra 2. This course focuses on reinforcing and deepening students' understanding of algebraic concepts such as polynomials, rational expressions, complex numbers, functions, logarithms, and systems of equations. Emphasis will be placed on developing strong problem-solving skills and enhancing mathematical reasoning.

SCIENCE COURSE SEQUENCE

Not all science classes are offered at every school

Course Title	Course #
9th Grade *	
Biology	3141/3142
Biology (H)	3143/3144
* Students who have successfully completed HS Honors Biology as part of the GATE MS Magnet program may start high school in Chemistry or Chemistry (H) with teacher recommendation. In addition to Chemistry, with permission from the school, students may choose to enroll in an additional science course if their schedule permits and the school offers the course. Please note that HS Honors Biology taken in 8th grade will not count as one of the required science courses for graduation or the honors diploma.	
10th - 11th - 12th Grade - *(please review the course prerequisites before choosing a course)*	
Chemistry	3201/3202
Chemistry (H)	3203/3204
Physical Science	3101/3102
Environmental Science	3111/3112
Earth Science	3131/3132
Earth Science (H)	3133/3134
Forensic Science	3231/3232
Human Anatomy & Physiology (H)	3261/3262
Astronomy	3267/3268
Zoology 1-2	3163/3164
Oceanography	3165/3166
Urban Farming	3135/3136
Conceptual Physics	3235/3236
Physics (H)	3241/3242
Microbiology (H)	3171/3172
Advanced Placement Science Classes: Curriculum for AP classes is regulated by College Board. AP courses can be taken after successfully meeting the prerequisite(s) as stated in the course catalog.	
AP Biology	3149/3150
AP Chemistry	3211/3212
AP Environmental Science	3115/3116
AP Physics 1	3263/3264
AP Physics 2	3265/3266
AP Physics C: Mechanics	3247/3248
AP Physics C: Electricity & Magnetism	3259/3260
Concurrent Enrollment Courses: These are college courses taught by a high school instructor	
Chemistry 121	14269/14270
Environmental Science 101	14255/14256
Geography 121	14265
Geology 100	14266
Wooster High School Only: International Baccalaureate Courses: Curriculum for IB classes is regulated by the International Baccalaureate Program.	
IB Biology SL	3153/3154
IB Biology HL	3155-3156
IB Chemistry SL	3213/3214
IB Chemistry HL	3215/3216
IB Physics SL	3253/3254

SCIENCE

Biology 1-2 **Course #3141–3142**

Full year = 1 credit

This one-year laboratory science course is intended to develop an understanding of the fundamental concepts of biological science. This course meets the Nevada Academic Content Standards for Science. The course is organized into five main topics*: 1) Interdependent Relationships in Ecosystems; 2) Matter and Energy in Organisms and Ecosystems; 3) Structure and Function; 4) Inheritance and Variation of Traits; 5) Natural Selection and Evolution.* The performance expectations for high school life science blend Disciplinary Core Ideas with both Science and Engineering Practices and Crosscutting Concepts to support students in developing an understanding of life science. In this course, students will use basic mathematical computations and read and write critically to analyze biological investigations.

Biology 1-2 (H) **Course # 3143-3144**

Full year = 1 credit (Honors)

This one-year laboratory science course is intended to build a deeper understanding of the fundamental concepts of biological science. Emphasis is placed on developing critical-thinking skills through greater analysis, more complete explanations, using multiple sources when engaging in argument from evidence, and planning and carrying out advanced laboratory investigations. This course meets the Nevada Academic Content Standards for Science. The course is organized into five main topics*: 1) Interdependent Relationships in Ecosystems; 2) Matter and Energy in Organisms and Ecosystems; 3) Structure and Function; 4) Inheritance and Variation of Traits; 5) Natural Selection and Evolution.* The performance expectations for high school life science blend Disciplinary Core Ideas with both Science and Engineering Practices and Crosscutting Concepts to support students in developing an understanding of life science. Students will use advanced mathematical computations, critically read, and analyze biological text, and learn from complex biological investigations. To be successful in this rigorous and challenging course, students should be able to work independently on activities and projects as well as read advanced text.

Chemistry 1-2 **Course #3201-3202**

Full year = 1 credit

Prerequisite: Successful completion of Biology 1-2 and Algebra 1.

Requisite: Concurrent enrollment in Geometry or higher.

This one-year laboratory science course is intended to develop an understanding of the fundamental concepts of chemical science. This course meets the Nevada Academic Content Standards for Science. The Disciplinary Core Ideas are*: 1) Structure and Properties of Matter; 2) Chemical Reactions; and 3) Energy in Chemical Processes*. The performance expectations for high school chemical science blend Disciplinary Core Ideas with both Science and Engineering Practices and Crosscutting Concepts to support students in developing an understanding of chemistry. Students will use mathematical computations, read scientific text, and write critically to analyze data in chemical investigations. To be successful in this rigorous and challenging course, students should be able to work independently on activities and projects as well as read advanced text.

Chemistry 1-2 (H) **Course # 3203-3204**

Full year = 1 credit (Honors)

Prerequisite: Successful completion of Biology 1-2 and Algebra 1.

Requisite: Concurrent enrollment in Geometry or higher.

This one-year honors laboratory science course is intended to build a deeper understanding of the concepts of chemical science and prepare students for AP Chemistry. Emphasis is placed on developing critical-thinking skills by solving more complex problems and participating in advanced laboratory investigations. This course meets the Nevada Academic Content Standards for Science. The disciplinary core ideas are: *1) Structure and Properties of Matter; 2) Chemical Reactions; and 3) Energy in Chemical Process.* The performance expectations for high school chemistry blend Disciplinary Core Ideas with both Science and Engineering Practices and Crosscutting Concepts to support students in developing an understanding of chemistry. Students will use advanced mathematical computations,

critically read scientific text, analyze chemical data, and prepare formal written laboratory reports following investigations.

Environmental Science 1-2 **Course #3111-3112**

Full year = 1 credit

Prerequisite: Successful completion of one year of science and Algebra 1.

This one-year laboratory science course is intended to develop an understanding of the fundamental concepts of environmental science. This course meets the Nevada Academic Content Standards for Science. The disciplinary core ideas are*: 1) Ecosystems: Interactions, Energy and Dynamics; 2) Biological Evolution: Unity and Diversity; 3) Energy; 4) Earth's Place in the Universe; 5) Earth's Systems; and 6) Earth and Human Activity*. Performance expectations for this course blend the Disciplinary Core Ideas with Science and Engineering Practices and Crosscutting Concepts to support students in developing a deeper understanding of how humans interact with the environment. Students will understand the complex and significant interdependencies between humans and the rest of Earth's systems by reading scientific text and writing critically to analyze data.

Physics 1-2 (H) **Course #3241-3242**

Full year = 1 credit (Honors)

Prerequisite: Successful completion of two years of science, Algebra 1, and Geometry.

Requisite: Concurrent enrollment in Algebra 2 or higher.

This one-year laboratory science course is intended as a third-year science course which covers the study of motion and energy as well as time and space. The course includes concepts in kinematics, dynamics, energy, static, electricity, wave theory and modern physics. Upon successful completion of Physics, students will: 1) develop curiosity and involvement with phenomena in their natural environment; 2) develop appreciation for the contribution of science to daily living; 3) understand and utilize the close relationship between mathematics and physics; and 4) deepen their scientific and mathematical thinking.

This course is designed to emphasis critical thinking and problem-solving using math skills which include algebra, geometry, and trigonometry. Students will participate in a wide range of activities including discussions, demonstrations, and laboratory investigations. This course will require advanced skills in reading comprehension, mathematics, and problem-solving techniques.

Human Anatomy and Physiology 1-2 (H) **Course #3261-3262**

Full year = 1 credit (Honors)

Prerequisite: Successful completion of Biology 1-2 and Chemistry 1-2 and successful completion of Algebra 1 and Geometry.

This one-year advanced level laboratory science course will cover an introduction to the structural and functional aspects of the human body. This course is for students interested in medical fields or biological science. The course is designed to cover the structure and function of cells, tissues, organs, and an in-depth look at body systems. Demonstrations and laboratory investigations, including dissections, are an integral part of the teaching of this course.

Upon successful completion of Human Anatomy and Physiology, students will develop: 1) an understanding of the methods and techniques used to study the human body; 2) knowledge of the structure of all systems in the body; 3) an understanding of the functions of all the systems of the human body; 4) an understanding of the role of each body system in maintaining the homeostatic balance of the human body; 5) an awareness of relevant pathologies associated with human body systems; and 6) an awareness of the professional opportunities and requirements in the health sciences and related fields.

Urban Farming **Course #3135-3136**

Full year = 1 credit

This course provides students with a comprehensive exploration of horticulture techniques in an urban setting. This course is designed for students interested in gardening, local food systems, nutrition, and the hands-on application of

environmental science. This includes an in-depth study on growing seasons, soil composition, nutrients, vermiculture, permaculture, aquaponics, hydroponics, mushroom cultivation and business models through whole class projects, small group work and individual projects tailored to student interests. In the off-season, students will focus on the environmental impact of our food systems, food preservation techniques and food nutrition education.

Forensic Science 1-2 **Course #3231-3233**
Full year = 1 credit
Prerequisite: Successful completion of two years of science.
In this one-year laboratory science course, students will learn and practice evidence gathering and analysis techniques. Topics include the study refractive index of glass, soil chemistry, DNA analysis, arson, ballistics, fingerprinting, chemical analysis, toxicology, and chromatography among many other topics.

AP Biology **Course #3149-3150**
Full year = 1 credit (Advanced Placement)
Prerequisite: Successful completion of Biology 1-2 and completion/concurrent enrollment in Chemistry 1-2.
This one-year laboratory science course is designed to be the equivalent of a college introductory course usually taken by biology majors during their first year. AP Biology builds upon the introductory high school biology course by using a college level textbook, increasing the depth and range of topics covered, and presenting advanced laboratory investigations all of which require additional time and effort from students. Successfully completing the AP Biology exam may allow students to receive advanced placement, college credit, or both, upon entering college. Students are required to take the AP exam in May. All AP exams have a cost associated with them.

College Concurrent Enrollment Courses

Concurrent Enrollment - Environmental Science 101 **Course #14255-14256**
Introduction to Environmental Science
Full year = 1 credit (Advanced Dual Credit)
Prerequisite: Successful completion of two years of science and mathematics through Algebra 2
This college course explores the fundamental components and interactions of earth's natural systems, the relationships between humans and the environment, and solutions to current and potential environmental problems. Expectations for this course are determined by the partner University/College. To be enrolled in the class, students must maintain consistent attendance.

SOCIAL STUDIES

World History/World Geography Options
1 credit required

World History 1-2 **Course #4101-4102**
Full year = 1 World History/World Geography credit
This course focuses on World History from approximately the mid-1300s to the modern day. Students will examine important concepts in geography, history, and culture pertaining to regions around the globe. Students will analyze significant events, individuals, developments and processes across the world from the perspective of multiple and varied voices for a vivid and complex picture of history. This course is global in nature, with a multicultural, rather than Eurocentric, approach. Students will engage in historical thinking, robust academic discussions, and informational and argumentative writing. Some of the topics of study will include, but are not limited to, the following: the Middle Ages, the Renaissance and Reformation, global expansion, empires and kingdoms of the world, the Enlightenment and revolutions, the rise of nation states, imperialism, industrialization, WWI, 20th Century revolutions, global depression, WWII, decolonization, the Cold War, globalization, and modern issues.

AP World History: Modern **Course #4111-4112**

Full year = 1 World History/World Geography credit (Advanced Placement)

This course is designed to be the equivalent of a two-semester introductory college or university world history course. In AP World History students investigate the cultural, economic, political, and social developments that have shaped the world from approximately 1200 CE to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical comparisons; and utilizing reasoning about contextualization, causation, and continuity and change over time. The course provides nine thematic units that students explore throughout the course in order to make connections among historical developments in different times and places: the Global Tapestry, Networks of Exchange, Land-Based Empires, Transoceanic Interconnections, Revolutions, Consequences of Industrialization, Global Conflict, Cold War and Decolonization, and Globalization. Students are required to take the AP exam in May. All AP exams have a cost associated with them.

US History Options

1 credit required

US History 1-2 **Course #4131-4132**

Full year = 1 US History credit

This course focuses on the history of the United States from the turn of the century to the present day. American founding documents and democratic principles will provide for the foundation referenced throughout this course while maintaining focus on the multicultural history, economics, civics, and geography of the modern era. This course includes multiple and varied voices and perspectives for a vivid and complex picture of U.S. History. Students in the course will engage in historical thinking, robust academic discussions, and informational and argumentative writing. Some of the topics of study will include, but are not limited to, the following: Nativism/Populism, Imperialism, the Gilded Age/Industrial Revolution, Progressivism, WWI, the 1920s, the Great Depression, WWII, the Civil Rights Movement, the Cold War, the rights movements of the 1970s, globalism, terrorism, and modern issues.

AP US History **Course #4145-4146**

Full year = 1 US History credit (Advanced Placement)

This course is aligned to a two-semester introductory college U.S. history survey course. In AP U.S. History, students investigate significant events, individuals, developments, and processes in nine historical periods from approximately 1491 to the present. Students develop and use the same skills, practices, and methods employed by historians. The course framework organizes U.S. history into nine periods and presents key conceptual understandings that students should explore in that period. The framework also organizes U.S. history into eight themes, or large-scale topics of historical inquiry that students explore throughout the course, including: American and National Identity; Politics and Power; Work, Exchange, and Technology; American Regional Culture; Social Structures; Migration and Settlement; Geography and the Environment; and America in the World. These themes help students connect the historical content they study to broad trends and processes that have emerged over centuries. Students are required to take the AP exam in May. All AP exams have a cost associated with them.

American Government/Economics and Personal Finance Options

.5 credit American Government / .5 credit Economics and Personal Finance required.

American Government **Course #4161**

One semester = 0.5 American Government credit

Productive civic engagement requires knowledge of the historical foundations and principles of American democracy, understanding the unique processes of local, state, and national institutions, and the skills necessary to apply civic dispositions and democratic principles. In this semester long course, students will analyze the powers and civic responsibilities of citizens and examine the origins, functions, and structure of the U.S. government. Content will include multiple historical eras and the various changing perspectives in America's past, as well as connections between historical events. Some of the topics of study will include, but are not limited to, the following: founding documents, the federal system, the legislative process, the judicial system, the executive branch, elections, political

parties, interest groups, rights and responsibilities of citizens, international relations, public policy, economic policies, media literacy, and contemporary issues.

Economics and Personal Finance **Course #4205**

One semester = 0.5 Economics and Personal Finance credit

The Economics and Financial Literacy course is grounded in knowledge about how people access and choose to use resources. Economic decision making involves setting goals and identifying the resources available to achieving those goals. Students will examine concepts and tools necessary to foster an economic way of thinking to better understand the interaction of buyers and sellers in markets, workings of the national economy, and interactions within the global marketplace. Some of the topics of study will include, but are not limited to, the following: supply and demand, financial institutions, labor markets, globalization, standard of living, economic indicators and policy, financial decision-making, saving and spending, credit and debt, and college and career preparedness.

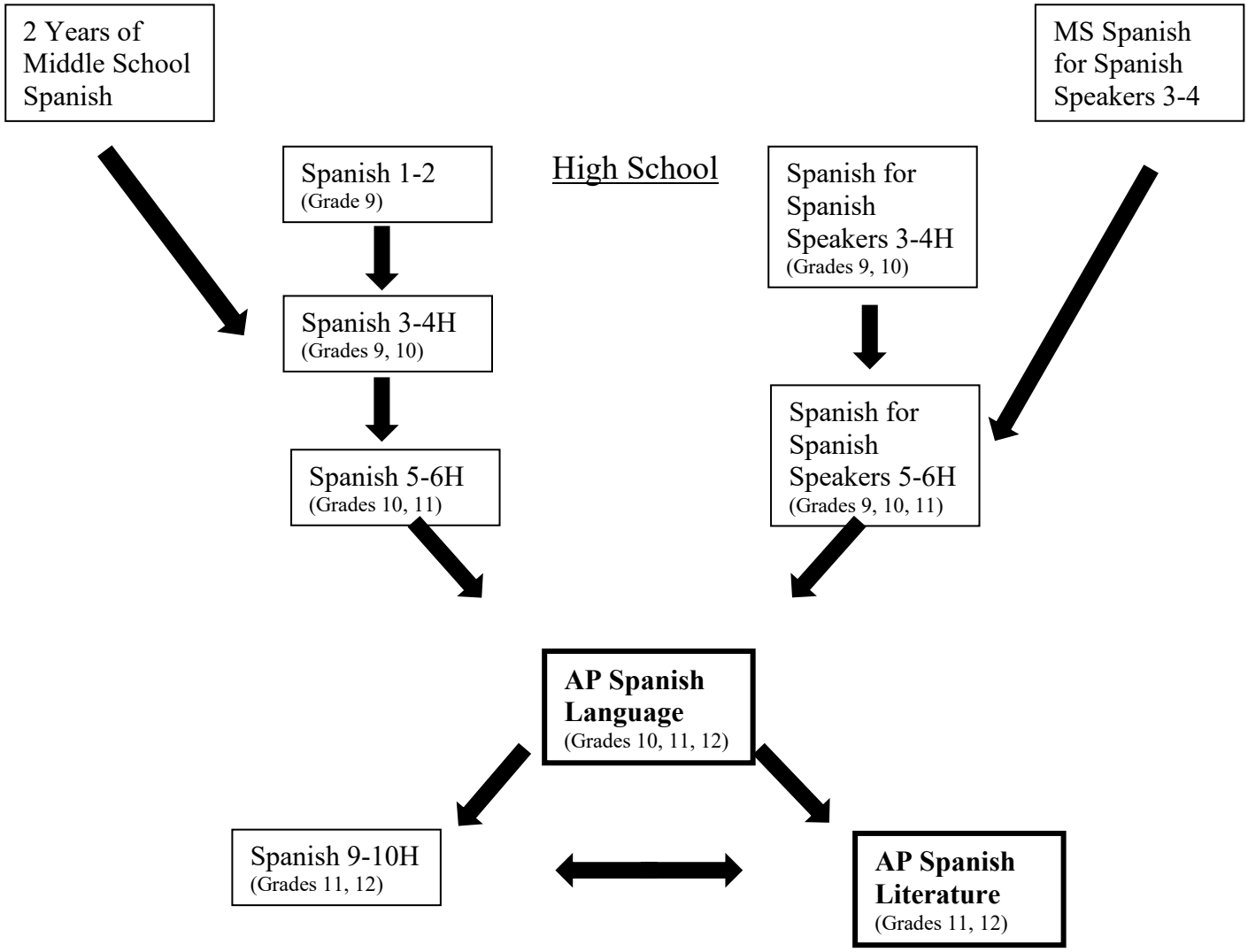
AP US Government & Politics **Course #4171-4172**

Full year = 1 American Government/Economics and Personal Finance credit (Advanced Placement)

This class satisfies both the American Government and Economics requirements.

This course provides a college-level, nonpartisan introduction to key political concepts, ideas, institutions, policies, interactions, roles, and behaviors that characterize the constitutional system and political culture of the United States. Students will study U.S. foundational documents, Supreme Court decisions, and other texts and visuals to gain an understanding of the relationships and interactions among political institutions, processes, and behavior. They will also engage in disciplinary practices that require them to read and interpret data, make comparisons and applications, and develop evidence-based arguments. In addition, they will complete a political science research or applied civics project. The AP U.S. Government and Politics course is organized around five units, which focus on major topics in U.S. government and politics. The units are Foundations of American Democracy, Interaction Among Branches of Government, Civil Liberties and Civil Rights, American Political Ideologies and Beliefs, and Political Participation. Students are required to take the AP exam in May. All AP exams have a cost associated with them.

SPANISH PATHWAYS



WORLD LANGUAGE

All WCSD World Language courses are performance-based in three modes of communication: interpretive, interpersonal, and presentational. Learners accomplish real-world communicative tasks in culturally appropriate ways as they gain familiarity with products, practices, perspectives, and interactions of and within the target culture(s).

World Language Level 1-2 Courses
Full year = 1 credit

French 1-2 – Course #4551-4552
Spanish 1-2 – Course #4611-4612
German 1-2 – Course #4681-4682
Chinese 1-2 – Course #4711-4712
Arabic 1-2 – Course #4585-4586

Introduction to the World Language: This introductory course is designed for students beginning their journey in a new language. Through engaging activities, students develop foundational skills in speaking, listening, reading, and writing. Emphasis is placed on everyday vocabulary, basic grammar structures, and simple conversations. Cultural exploration is integrated, providing students with an understanding of the cultural contexts of the language they are studying. By the end of Level 1-2, students will be able to engage in basic exchanges and demonstrate cultural awareness.

World Language Level 3-4 Courses (H)
Full year = 1 credit (Honors)

French 3-4 (H) – Course #4553-4554
Spanish 3-4 (H)– Course #4613-4614
German 3-4 (H) – Course # 4683-4684
Chinese 3-4 (H) – Course # 4713-4714
Arabic 3-4 (H) – Course #4587-4588

Building Proficiency in the World Language: In Level 3-4, students expand on their foundational skills, gaining greater confidence in using the language in real-life situations. This course introduces more complex vocabulary and grammar, allowing students to discuss topics related to personal interests and daily life. Reading and listening skills are further developed through authentic materials, while writing tasks encourage students to express themselves in short paragraphs. Cultural themes deepen, as students explore traditions, values, and perspectives of the language's communities.

World Language Level 5-6 Courses (H)
Full year = 1 credit (Honors)

French 5-6 (H) – Course #4555-4556
Spanish 5-6 (H) – Course #4615-4616
German 5-6 (H) – Course #4685-4686
Chinese 5-6 (H) – Course #4715-4716
Arabic 5-6 (H) – Course #4589-4590

Intermediate Communication in the World Language: Level 5-6 focuses on enhancing students' ability to communicate effectively in various social and academic contexts. Students work on refining their speaking, listening, reading, and writing skills through interactive and collaborative projects. They learn to describe events, express opinions, and discuss abstract topics using more nuanced vocabulary and grammar. Cultural studies are integrated into the curriculum, fostering greater appreciation for global perspectives. By the end of the course, students will be able to hold conversations on a variety of topics with increased accuracy and fluency.

World Language Level 9-10 Courses (H)
Full year = 1 credit (Honors)

French 9-10 (H) – Course #4559-4560
Spanish 9-10 (H) – Course #4619-4620

Advanced Proficiency in the World Language In this advanced course, students strive for proficiency as they explore complex themes and sophisticated language structures. Emphasis is placed on critical thinking, cultural analysis, and in-depth discussions, as students read authentic texts and engage in detailed conversations. Writing assignments challenge students to articulate well-organized arguments and narratives. Through immersive activities, students gain insights into the cultural, historical, and societal contexts of the language. By the end of Level 9-10, students will be able to communicate with increased precision and participate confidently in discussions on diverse topics.

AP Spanish Language & Culture **Course #4641-4642**
Full year = 1 credit (Advanced Placement)
AP Spanish Literature and Culture is an advanced course designed for students who wish to deepen their understanding and appreciation of literary works written in Spanish. Through the exploration of canonical texts from Spain, Latin America, and the U.S., students will analyze themes, historical contexts, and cultural movements that have shaped the Spanish-speaking world. This course emphasizes critical reading, analytical writing, and meaningful discussion, fostering connections between literature and the broader cultural and societal issues it reflects. Students will engage with poetry, prose, drama, and essays spanning from the medieval period to the present, developing interpretive skills and cultural awareness.

College Concurrent Enrollment Courses

Concurrent Enrollment – Spanish 211 **Course #14239-14240**
Second Year Spanish I
Full year = 1 credit (Advanced Dual Credit)
This college course includes study at the intermediate level of Spanish language structures and culture with continued emphasis on proficiency in the four skills of listening, speaking, reading, and writing. Expectations for this course are determined by the partner University/College. To be enrolled in the class, students must maintain consistent attendance.

Concurrent Enrollment – Spanish 212 **Course #14243-14244**
Second Year Spanish II
Full year = 1 credit (Advanced Dual Credit)
Prerequisite: Successful completion of Spanish 211
This college course includes study at the intermediate level of Spanish structures with an emphasis on writing, reading, and conversation. Expectations for this course are determined by the partner University/College. To be enrolled in the class, students must maintain consistent attendance.

PHYSICAL EDUCATION

PE **Course #5101-5102**
Full year = 1 credit **Course #5103-5104**
This course is designed for all grade levels in which students are introduced to a variety of sports in three to five-week units. These sports are divided into three categories: lifetime, team, and individual. Activities may include aerobics, badminton, basketball, flag football, jogging, pickle ball, soccer, softball, tennis, track, volleyball, and weight training. Emphasis is on the teaching of rules, skills, and strategies in the instructional sports as well as the recreational aspects

of team sports. There are daily warm-up activities, which include cardiovascular runs and calisthenics. Students are expected to dress out in the required PE uniform daily.

Life Sports **Course #5131-5132**
Full year = 1 credit **Course #5133 (semester)**
This course is designed for students at all grade levels. Students are exposed to lifetime, team, and individual activities. Each semester will begin and end with individual activities while students undergo fitness testing. During fitness testing, students will give their best attempt at various activities typically including the mile run, "Beep" fitness test, sit ups, and push-ups. Daily classes will begin with various activities to warm up students while increasing strength, flexibility, and endurance to improve general health and ultimately to improve fitness testing results. Each semester students are introduced to a variety of team sports in three to five-week units. First semester activities typically include soccer, volleyball, floor hockey, and basketball. Second semester activities typically include lacrosse, badminton, tennis, and kickball. Student grades will be based on daily participation, proper dress, the final exam, and completion of all fitness tests.

Team Sports **Course #5171-5172**
Full year = 1 credit **Course #5173 (semester)**
Team Sports is designed for students/athletes to increase skills in their respective sport and/or fitness levels. Our mission is to help direct student athletes to focus on their individual sports goals, improve intrinsic motivation, and to pursue a healthy and active lifestyle. Lastly, our goal is to give our students the knowledge and experience to make informed decisions about proper nutrition and exercise outside the school walls.

Fitness/Weight Training **Course #5213-5214**
Full year = 1 credit
This course is designed to condition both male and female interscholastic athletes who have a desire to condition every day through weight training, aerobics, cardiovascular workouts, and a variety of activities that will enhance each individual's fitness level and also meet personal and team training goals. The course is designed to increase the student's strength, flexibility, endurance, and overall muscular toning.

COMPUTER LITERACY

Computer Science & Applications **Course #8344 or 8345**

One semester = 0.5 credit

This course is an introduction to computer science and applications intended to "prepare young learners to become computational thinkers who understand how today's digital tools can help solve tomorrow's problems." (ISTE, 2018). CS & A will include at least 50% computer science principles and computational thinking. The balance of the course will integrate skills in digital and media literacy and digital citizenship.

HEALTH

Health **Course #5311**

One semester = 0.5 credit

This course is a One semester course which covers the following topics: body function; physical and emotional development; drugs, alcohol, and tobacco; disease and disorders; fitness and exercise; nutrition; consumer health, safety, first aid, and emergency care; family health, growth and development; environmental health and related fields; community health; health careers; human sexuality and HIV/AIDS. **Topics related to human sexuality and HIV/AIDS education are provided through the Sexuality, Health and Responsibility Education (S.H.A.R.E.) program - parent permission required.

VISUAL AND PERFORMING ARTS

Unless otherwise noted these fine arts courses fulfill the
"Arts" requirement as part of "Arts/Humanities/CTE"

Visual and Performing Arts: Visual Arts

Art 1-2 **Course # 6111-6112**

Full year = 1 credit

Art is an introductory class designed to give students a background for both understanding and producing quality visual art. This class follows a rigorous, comprehensive curriculum, as mandated by the Nevada Department of Education Standards for visual arts. Units in drawing on the right side of the brain, elements and principles of design, color theory, painting and multi-media may be explored. In Art 2 technical skills will be refined by working from observation, judging proportion using sighting and referencing. Artwork will incorporate basic composition and perspective. Students will demonstrate the use of the elements and principles of design, study the historical context of art, and develop their critiquing skills. Various drawing and painting materials and techniques will be used.

Art 3-4 **Course # 6113-6114**

Full year = 1 credit

Prerequisite: Successful completion of Art 1-2

In this second-year art course students will further develop their skills and techniques to create works with depth and volume. Various media will be incorporated to further student's knowledge in developing individual expression and ideas. The human figure will be explored through various media including the area of three-dimensional drawings. Students will examine the human form, learn proportion and mass of the figure. Self-expression and creative interpretation will be a focus. Art history will also be a key component in the curriculum.

Art 5-6 (H) **Course # 6113-6114**

Full year = 1 credit (Honors)

Prerequisite: Successful completion of Art 3-4

This third-year art course is for the advanced student seeking further enrichment through personal expression and self-evaluation. A focus on community awareness in the visual arts will be stressed. Students will be asked to demonstrate a personal theme and will develop a higher level of ability through self-motivation and direction. Students will be able to display their work within their school environment through personal or group shows. The culmination of the semester will have students submitting a portfolio and artist statements. Students will also submit artwork to the national Scholastic Arts competition.

Drawing 1-2 **Course # 6141-6142**

Full year = 1 credit

Prerequisite: Successful completion of Art 1-2 and/or recommendation of the instructor

Drawing 1-2 is an introductory course designed for high school students interested in exploring the fundamentals of visual art through the medium of drawing. This course emphasizes the development of technical skills, creative expression, and an understanding of artistic concepts and techniques. Students will learn to observe and depict the world around them using a variety of materials, including pencil, charcoal, ink, and pastels. The curriculum focuses on essential drawing techniques such as line, shape, value, texture, perspective, and composition. Through guided practice, students will create works that demonstrate their understanding of proportion, spatial relationships, and light and shadow.

Photo 1-2 **Course # 6121-6122**

Full year = 1 credit

Photo 1-2 is an introductory course designed for high school students interested in exploring the art and techniques of photography. This course emphasizes the fundamentals of photographic composition, camera operation, and creative expression through the lens. Students will learn essential photography skills, including understanding camera settings

(aperture, shutter speed, ISO), framing, lighting, and capturing dynamic images. The curriculum covers the principles of composition, color theory, and storytelling to create visually compelling photographs. Students will work with both digital cameras and smartphone cameras, gaining hands-on experience with editing software to enhance and refine their images. Projects will include portraiture, landscape, still life, and experimental photography, allowing students to explore their personal style and creative ideas. Students should have access to a Single Lens Reflex camera with adjustable controls and an internal metering system.

Visual and Performing Arts: Music

Music Appreciation **Course #6599-6600**
Full year = 0.5 credit /One Semester
This course offers an exciting survey of the traditions of music from the Middle Ages to the present, from Medieval music to Twenty-first Century Pop. Study topics will include how music relates to social, economic, cultural, and political developments of each era in the development of music. The class will show how major events in music affected our society and how major events in society shaped music, as we know it. Other aspects of music to be studied will cover: the art of listening, the fundamental elements of music, world music, musical instruments, and the future of music.

Digital Music **Course #6622**
One semester = 0.5 credit/One Semester
This class is an introduction to digital recording concepts. We will cover the basics of sound adjusting, acoustics, frequency measurement, digital file management and DAW workstation basics. Through this course we will also cover general music theory and composition.

In alignment with the Nevada State Standards for Music Technology, students may be required to participate in co-curricular rehearsals and performances beyond the school day to receive credit for this class.

College Concurrent Enrollment Courses

Concurrent Enrollment - Music 121 **Course #14267**
Music Appreciation
One semester = 1 credit (Advanced Dual Credit)
Historical and cultural background of music. A general course in music appreciation open to all students. Representative works presented and analyzed. Expectations for this course are determined by the partner University/College. To be enrolled in the class, students must maintain consistent attendance.

Concurrent Enrollment - Music 122 **Course #14268**
Survey of Jazz
One semester = 1 credit (Advanced Dual Credit)
This college class is a chronological study of jazz music and musicians with emphasis on directed listening. Expectations for this course are determined by the partner University/College. To be enrolled in the class, students must maintain consistent attendance.

Visual and Performing Arts: Music/Instrumental

Symphonic Orchestra **Course #6681-6881**
Full year = 1 credit (repeatable)
Honors credit available for students who complete additional requirements
Students will perform a variety of large ensemble orchestral literature of diverse genres and instrumentation. Students will also be expected to prepare solo études, orchestral excerpts, and to study music history components of music

literature from varied time periods. Students will be required to perform in concerts during and/or after school wearing the ensemble's designated attire. Out-of-school rehearsals may be required. Other events such as honor ensembles, Solo & Ensemble Festival, and All-State Band and Orchestra may be required per teacher's directive. For an annual rental fee, school instruments are available for students who qualify. Other instruments may join with the instructor's approval. This course is offered concurrently with Symphony Orchestra: Symphonic Winds and Percussion.

Jazz Band **Course #6707-6708**

Full year = 1 credit

This group is for students who wish to further their musical knowledge and skill through the study of Jazz. Membership in this ensemble may be by audition. The focus of the Jazz Band will be on the performance of various jazz styles, articulation, and improvisation. The Jazz Band performs at various concerts as well as festivals and competitions in and around the Reno/Sparks area.

Visual and Performing Arts: Music/Choir

Chorale **Course #6813-6814**

Full year = 1 credit

This course is open to beginning choir/general music students interested in learning to sing, read music, and explore musical concepts through traditional, jazz, and rock styles. Students may be required to participate in co-curricular rehearsals and performances beyond the school day to receive class credit. Class performances may include but are not limited to Fall, Winter, Spring, and Festival

ELECTIVES

Student Leadership **Course #7201-7202**

Full year = 1 credit (repeatable) **Course #7013**

Student Leadership is designed for students who want to develop and refine their leadership skills while making a positive impact within the school and local community. This course focuses on personal growth, team building, and the practical application of leadership principles in various settings. Students will be responsible for planning, organizing, and running all student planned school activities including spirit weeks, assemblies, dance, community service, and other activities that arise.

Student Store **Course #8711-8712**

Full year = 1 credit (repeatable)

This course provides students with a hands-on opportunity to operate and manage the school's student store. This course teaches fundamental business skills, including inventory management, customer service, marketing, cash handling, and sales techniques. Students will also learn the basics of entrepreneurship, teamwork, and leadership as they take on roles within the store, such as cashier, stock manager, and marketing coordinator.

Yearbook **Course #1403-1404**

Full year = 1 credit (repeatable)

This full-year course is designed for the student who is interested in the development of the school yearbook. Students enrolled in this course will be required to learn and take an active part in design, photography, business management, advertisement sales, and computer techniques. Skills include planning, organizing, producing page layouts, writing copy, meeting deadlines, using the computer for yearbook design, and a willingness to work after school and some weekends in order to meet deadlines.

Robotics Engineering **Course #7115-7116**

Full year = 1 credit

Explore the exciting world of robotics in this hands-on high school course! Dive into the basics of building and programming robots while understanding the principles of mechanics and electronics. From assembling your first

robot to coding its movements, this class provides a solid foundation in robotics. Get ready to unleash your creativity, problem-solving skills, and teamwork as you embark on thrilling robotic challenges. No prior experience required – just a curiosity for technology and a passion for innovation!

HERC Rover **Course #8455-8456**

Full year = 1 credit (repeatable)

The NASA Human Exploration Rover Challenge (HERC) is a rigorous and continuously evolving activity which engages students in hands-on engineering design related to NASA's missions. HERC aims to meet established educational objectives and provide continuous program improvement that satisfy the needs of its participants. Through participating in HERC, students will develop a deeper understanding of content and enhance their communication, collaboration, inquiry, problem-solving, and flexibility skills that will benefit them throughout their academic and professional lives.

Intro to Metalworking **Course #8507-8508**

Full year = 1 credit

Intro to Metals provides students with hands-on experience and foundational knowledge in metalworking. This course explores basic metalworking techniques, safety protocols, and the use of various tools and equipment. Students will learn about different types of metals, their properties, and how they are used in industry and artistic projects. Through guided projects, students will practice skills such as cutting, shaping, welding, and finishing metals. Emphasis is placed on creativity, precision, and safety in a workshop environment.

Intro to Woodworking **Course #8473-8474**

This course provides students with foundational knowledge and hands-on experience in woodworking. Students will learn essential skills such as measuring, cutting, shaping, assembling, and finishing wood projects using a variety of tools and techniques. Emphasis will be placed on safety, tool maintenance, and proper workshop procedures. Through practical projects, students will develop problem-solving skills, creativity, and craftsmanship. By the end of the course, students will have the ability to design and build their own woodworking projects while understanding the principles of material selection and construction techniques.

SSTS **Course #7845-7846**

Full year = 1 credit (repeatable)

To be enrolled in a SSTS class, a student must be receiving special education services and requires specialized instruction beyond what can be reasonably provided in the general education setting in one or more of the following areas: math, reading, writing, transition skills, self-advocacy, social/emotional skills, executive functioning skills, and task completion.

Peer Tutor **See options below**

Full year = 1 credit
One semester = 0.5 credit

Peer Tutor – Course #8161-8162
EL Peer Tutor – Course #7655-7656
Math Peer Tutor – Course #2411-2412
Science Peer Tutor – Course #3033-3034
Writing Peer Tutor – Course #1109-1110

The Peer Tutor course provides students with an opportunity to support their classmates in academic learning while developing their own tutoring and leadership skills. As peer tutors, students will work one-on-one or in small groups with fellow students who may be struggling in various subjects. This course fosters a collaborative learning environment and emphasizes the importance of mentorship, communication, and empathy.

Student Aide **Course #8171-8172**
Teacher Aide **Course #8115-8116**

Full year = 0.5 credit

One semester = 0.25 credit
The Teacher Aide/Student Aide course offers students the opportunity to gain valuable experience in an educational setting while providing support to teachers and fellow students.

Department Aide **Course #8111-8112**
Full year = 1 credit
One semester = 0.5 credit
The Department Aide course offers students the opportunity to gain valuable experience in an educational setting while providing support to teachers and fellow students.

Student Assistant **See options below**
Full year = 1 credit
One semester = 0.5 credit

CIS Assstant – Course #8065-8066
Counseling Assistant – Course #8081-8082
Library Assistant – Course #8095-8096
Computer Assistant - Course #8071-8072

The Student Assistant course provides students with a unique opportunity to gain practical experience in educational settings while assisting with various educational activities.

Office Experience **See options below**
Full year = 1 credit
One semester = 0.5 credit

Office Experience – Administration – Course #8131-8132
Office Experience – Attendance – Course #8141-8142
Office Experience – Clinic – Course #8155-8156
Office Experience – Counseling – Course #8125-8126
Office Experience – Career Center – Course #8135-8136
Office Experience – Discipline Office – Course #8151-8152
Office Experience – Main Office – Course #8145-8146
Office Experience – General – Course #8122-8123

The Office Experience course provides high school students with practical skills and insights into the administrative and operational functions of an office environment.

World Cuisines **Course #8431-8432**
One Semester = 0.5 credit
Prerequisite: None
Lab Fee: $25/year
World Cuisine is an elective exploration into the wonderful world of food. Students will be exposed to various cultures, beliefs and geography that shape the various cuisines around the world. Topics will include basic sanitation, history of food, food preparation techniques. Students will be exposed to a variety of countries and cultures around the world. Each semester the class will focus on a geographical region. In this class we will experience the Hindi-Ottoman styles as they relate to the culture, natural foods, lifestyles of the peoples of the Deacon Plateau, the Himalaya, Aravalli range Indo-Gangetic plains, and the northwestern Anatolian region of Bithynia, and the Byzantine frontier into an empire spanning the Balkans, Anatolia, Middle East and North Africa to the banks of the Ganges. Our focus is the regions of the Mediterranean Sea to the border of China and is the second most populated area in the world with almost 3 billion people. Many of the cultural and cuisine styles have their roots in this region. As we travel the "silk road" these traditions are reflected in the popular food styles of the Mediterranean, European, African, and Americas.

College Concurrent Enrollment Courses

Concurrent Enrollment – Nursing 140 **Course #14277**
Medical Terminology
One semester = 1 credit (Advanced Dual Credit)
This college course emphasizes the development of basic medical vocabulary used to describe the body's anatomical systems with emphasis on the definition, use, spelling and pronunciation of terms. Attention will be focused on disease, normal body structure and function and pharmacology terminology. Expectations for this course are determined by the partner University/College. To be enrolled in the class, students must maintain consistent attendance.

Concurrent Enrollment - Education 201 **Course #14245**
Introduction to Teaching (PK-8)
One semester = 1 credit (Advanced Dual Credit)
This college course emphasizes the characteristics of effective teachers in contemporary classrooms. Expectations for this course are determined by the partner University/College. To be enrolled in the class, students must maintain consistent attendance.

Concurrent Enrollment - Education 203 **Course #14248**
Introduction to Special Education
One semester = 1 credit (Advanced Dual Credit)
This college course has a focus on foundations and characteristics of effective instruction of students with various disabilities, in general education classrooms. Expectations for this course are determined by the partner University/College. To be enrolled in the class, students must maintain consistent attendance.

Concurrent Enrollment - Cooperative Education 198 **Course #14231**
Special Topics in Cooperative Education
One semester = .5 or 1 credit dependent on the corresponding college course credits (Advanced Dual Credit)
This college course is usually connected to a CTE program of study and is a culmination of that program. Expectations for this course are determined by the partner University/College. To be enrolled in the class, students must maintain consistent attendance.

Concurrent Enrollment – Agricultural Science 100 **Course #14261-14262**
Elements of Livestock Production
Full year = 1 credit (Advanced Dual Credit)
This college course includes fundamental concepts in care, management and economics of food producing animals. Includes contributions of the Nevada and U.S. animal industrious in providing food on an international basis. Expectations for this course are determined by the partner University/College. To be enrolled in the class, students must maintain consistent attendance.

Concurrent Enrollment - Engineering 100 **Course #14263**
Introduction to Engineering Design
One semester = 1 credit (Advanced Dual Credit)
This college course introduces engineering design, professional ethics, project planning, prototype fabrication, engineering creativity, and an overview of engineering disciplines. Expectations for this course are determined by the partner University/College. To be enrolled in the class, students must maintain consistent attendance.

Concurrent Enrollment – Cooperative Education 201 **Course #14280**
Workplace Readiness
One semester = 1 credit (Advanced Dual Credit)
This college course prepares students with critical skills to secure and maintain employment. Students will learn to communicate in multiple modes to address workplace needs, solve problems using critical thinking, understand work-related systems, maintain safe and healthful working conditions, practice ethical and legal behavior consistent with workplace standards, and enhance work outcomes through leadership, self-management, and teamwork. Expectations

for this course are determined by the partner University/College. To be enrolled in the class, students must maintain consistent attendance.

Concurrent Enrollment – Human Development and Family Studies 201 Course #14281
Lifespan Human Development
One semester = 1 credit (Advanced Dual Credit)
This college course is the study of human growth and development from conception through death. All domains of development are studied including physical, cognitive, and social/emotional aspects of development. Expectations for this course are determined by the partner University/College. To be enrolled in the class, students must maintain consistent attendance.

INTERNSHIP COURSES

Internship Prep Course #7113-7114
Full year = 1 Elective credit (repeatable)
The preparatory internship course is for students to learn life and job skills through scenarios, real world research, and potential internship placements. Students will learn the importance of workplace skills, customer service, management, and goal planning. Students may be placed with community mentors in interest driven opportunities that inform and prepare students for semester-based internships. This course may have a community element included.

CTE Internship Course #7108-7109
Full year = 1 Elective credit (repeatable)
CTE internship is a work-based learning experience that places the student in a real workplace environment to develop and practice career-related knowledge and skills for a specific career field related to the student's career interests, abilities, and goals. Students are connected to classroom learning and accompanied by structured reflection activities. Students participating in internships are guided by a formal, written training plan that defines specific academic and workplace skills to be mastered. Internships taken for course credit must meet 60 hours per semester credit. This is most appropriate for third- and fourth-year students.

Note: This course requires additional documents as approved by the Nevada Department of Education and WCSD.

Internship Course #7106-7107
Full year = 1 Elective credit (repeatable)
Internship is a work-based learning experience that places the student in a real workplace environment to develop and practice career-related knowledge and skills for a specific career field related to the student's career interests, abilities, and goals. This course is designed to expand the students' understanding of career fields, the associated work environment, and accompanied by structured reflection activities. Students participating in internships are guided by a formal, written training plan that defines specific academic and workplace skills to be mastered. Internships taken for course credit must meet 60 hours per semester credit. This is most appropriate for 11th and 12th grade students.

Note: This course requires additional documents as approved by the Nevada Department of Education and WCSD.

CAREER AND TECHNICAL EDUCATION

The course titles, course numbers, and descriptions listed below are approved by the Nevada Department of Education and are to be used exactly as written in this catalog. This is especially important since it is those course numbers that will populate the System for Accountability Information in Nevada (SAIN). Each school site is allowed to add to the course description, but you must use the below description as part of the write-up in your catalog. Courses approved by the Nevada Department of Education can be found at http://www.doe.nv.gov/CTE/Program_Resources_Documents_Page/.

Courses that Qualify as CTE: Only courses that are approved by the Nevada Department of Education and are offered as part of a program of study are eligible to use the CTE course numbers (a 10000 or 30000 series number). In several cases, there is a non-CTE course number (an 8000 number) available for schools that are offering individual courses outside of the scope of a CTE program of study.

Honors Credit: As of the 2019-20 school year, all Level 2 courses and Level 3 courses receive honors (H) credit. These are all courses designated as "**L2**" or "**L3**". Labs, Advanced Studies and Work Experiences courses are not eligible for honors credit. Complimentary courses will be determined on an individual basis.

Common Semester Finals: In cases where a level 1 or level 2 course are taught at more than one school, a year-by-year curriculum map and common semester finals are developed by the program instructors to ensure that students have access to the same curriculum content throughout the district.

End of Program Assessments: The Nevada Department of Education requires that all students completing a program of study (level 2C & 3C) sit for the state Technical Skills and Employability Assessments. These assessments are considered "high-stakes" and must follow all testing protocols. These assessments are given electronically and must be proctored by someone other than the CTE teacher. Test administration training is required for a school administrator and the CTE Department Chair.

CTE Work Experience: Students may take a course in CTE Work Experience. This is a paid position where the student is working in a job related to a CTE program of study. Technical and employability skills learned in the classroom are incorporated into the student's learning plan and applied on the job. A training plan and signed training agreement are required. CTE work experience should be a minimum of hours worked equal to the number of hours required for any other course of that same credit, usually 60 hours per half credit. CTE Work Experience course descriptions and naming conventions are outlined in the Nevada Career and Technical Education Course Catalog.

If there is a course in the Nevada CTE Catalog that you need and it is not in this document or you have any questions, please contact the WCSD CTE Office.

Note: Courses highlighted in gray are being phased out by the NDE.

AGRICULTURE, FOOD, AND NATURAL RESOURCES

This Career Cluster® is focused on the production, processing, marketing, distribution, financing, and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture, and other plant and animal products or resources.

Program Name	Course Sequence
Agricultural Welding, Power, and Structure Technology	**Core Course Sequence** Agricultural Welding, Power, and Structure Technology I Agricultural Welding, Power, and Structure Technology II **Complementary Course(s)** Agricultural Welding, Power, and Structure Technology II Lab ** Agricultural Welding, Power, and Structure Technology Advanced Studies CTE Work Experience – Agriculture, Food, and Natural Resources Industry-Recognized Credential – Agricultural Welding, Power, and Structure Technology
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, Food, and Natural Resources Industry-Recognized Credential – Animal Systems
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, Food, and Natural Resources Industry-Recognized Credential – Plant Systems

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

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

AGRICULTURAL WELDING, POWER, AND STRUCTURE TECHNOLOGY I **Course #31101-31102**
One year = 1 credit Level 1 (L1)
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 (H) Course #31103-31104
One year = 1 credit Level 2 Completer (L2C) State Testing
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 Course #31141-31142
One year = 1 credit Level CC (L2L)
Prerequisite: *Concurrent enrollment in Agricultural Welding, Power, and Structure Technology II (H)*

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
One year = 1 credit Level CC **Course #31121-31122**
Prerequisite: *Completion of Agricultural Welding, Power, and Structure Technology Program of Study*

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.

INDUSTRY-RECOGNIZED CREDENTIAL – AGRICULTURAL WELDING, POWER, AND STRUCTURE TECHNOLOGY Course # 31161-31062
One year = 1 credit Level CC
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 a 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. This course may be repeated for additional instruction and credit.

PRINCIPLES OF AGRICULTURE, FOOD, AND NATURAL RESOURCES Course #31201-31202
One year = 1 credit Level 1 (L1)
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 (H) **Course #31203-31204**

One year = 1 credit Level 2 Completer (L2C) State Testing

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 **Course #31221-31222**

One year = 1 credit Level CC

Prerequisite: *Completion of Animal Systems 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 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. This course may be repeated for additional instruction and credit.

AGRICULTURAL BUSINESS SYSTEMS FOR ANIMAL SYSTEMS **Course #TBA**

One year = 1 credit Level CC

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

One year = 1 credit Level CC **Course #TBA**

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

One year = 1 credit Level CC **Course #TBA**

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 **Course #TBA**
One year = 1 credit Level CC
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 **Course #31225-31226**
One year = 1 credit Level CC
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 **Course #31263-31264**
One year = 1 credit Level CC
Prerequisite: *Completion of Animal Systems 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 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. This course may be repeated for additional instruction and credit.

PLANT SCIENCE (H) **Course #31205-31206**
One year = 1 credit Level 2 Completer (L2C) State Testing
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 **Course #31223-31224**
One year = 1 credit Level CC
Prerequisite: *Completion of Plant Systems 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.

AGRICULTURAL BUSINESS SYSTEMS FOR PLANT SYSTEMS **Course #TBA**
One year = 1 credit Level CC
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
One year = 1 credit Level CC **Course #TBA**
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
One year = 1 credit Level CC **Course #TBA**
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 **Course #TBA**
One year = 1 credit Level CC
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 **Course #31227-31228**
One year = 1 credit Level CC
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 **Course #31261-31262**
One year = 1 credit Level CC
Prerequisite: *Completion of Plant Systems 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 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. This course may be repeated for additional instruction and credit.

CTE WORK EXPERIENCE–AGRICULTURE, FOOD, AND NATURAL RESOURCES Course #31031-31032
One year = 1 credit Level WK
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 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.

ARCHITECTURE AND CONSTRUCTION

This Career Cluster® is focused on careers in designing, planning, managing, building, and maintaining the built environment.

Program Name	Course Sequence
Building Trades in Construction Technology	**Core Course Sequence** Building Trades in Construction Technology I Building Trades in Construction Technology II **Complementary Course(s)** Building Trades in Construction Technology II LAB ** Building Trades in Construction Technology Advanced Studies Construction Technology Furniture and Cabinetmaking CTE Work Experience - Architecture and Construction Industry-Recognized Credential – Building Trades in Construction Technology

Design Drafting	**Core Course Sequence** Design Drafting I Design Drafting II **Complementary Course(s)** Design Drafting II LAB ** Design Drafting Advanced Studies Architecture Design CTE Work Experience - Architecture and Construction Industry-Recognized Credential – Design Drafting

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.

BUILDING TRADES IN CONSTRUCTION TECHNOLOGY I **Course #31601-31602**
One year = 1 credit Level 1 (L1)
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 (H) **Course #31603-31604**
One year = 1 credit Level 2 Completer (L2C) State Testing
Prerequisite: *Building and 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 **Course #31641-31642**
One year = 1 credit Level CC (L2L)
Prerequisite: *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 Course #31621-31622
One year = 1 credit Level CC
Prerequisite: *Completion of Building Trades in Construction Technology 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.

CONSTRUCTION TECHNOLOGY **Course #31643-31644**
One year = 1 credit Level CC
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 **Course #31645/31646**
One year = 1 credit Level CC
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
One year = 1 credit Level CC **Course #31661-31662**
Prerequisite: *Completion of Building Trades in Construction Technology 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 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. This course may be repeated for additional instruction and credit.

DESIGN DRAFTING I **Course #31701-31702**
One year = 1 credit Level 1 (L1)
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, and 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 (H) **Course #31703-31704**
One year = 1 credit Level 2 Completer (L2C) State Testing
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 **Course #31741-31742**
One year = 1 credit Level CC (L2L)
Prerequisite: *Concurrent enrollment in Drafting 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.

DESIGN DRAFTING ADVANCED STUDIES **Course #31721-31722**
One year = 1 credit Level CC
Prerequisite: *Completion of Design Drafting 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.

ARCHITECTURE DESIGN **Course #31741-31742**
One year = 1 credit Level CC
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 post-secondary education.

INDUSTRY-RECOGNIZED CREDENTIAL – DESIGN DRAFTING **Course #31761-31762**
One year = 1 credit Level CC
Prerequisite: *Completion of Design Drafting 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 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. This course may be repeated for additional instruction and credit.

CTE WORK EXPERIENCE - ARCHITECTURE AND CONSTRUCTION **Course #31531-31532**
One year = 1 credit Level WK
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 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.

ARTS, A/V TECHNOLOGY, AND COMMUNICATIONS

This Career Cluster® is focused on designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.

Program Name	Course Sequence
Graphic Design	**Core Course Sequence** Graphic Design I Graphic Design II **Complementary Course(s)** Graphic Design II LAB ** Graphic Design Advanced Studies 2D Animation for Graphic Design CTE Work Experience – Arts, A/V Technology, and Communication Industry-Recognized Credential – Graphic Design
Multimedia Communications	**Core Course Sequence** Multimedia Communications I Multimedia Communications II **Complementary Course(s)** Multimedia Communications II LAB ** Multimedia Communications Advanced Studies 2D Animation for Multimedia Communications CTE Work Experience – Arts, A/V Technology, and Communication Industry-Recognized Credential- Multimedia Communications
Theatre Technology	**Core Course Sequence** Theatre Technology I Theatre Technology II **Complementary Course(s)** Theatre Technology Advanced Studies Set Design CTE Work Experience – Arts, A/V Technology, and Communication Industry-Recognized Credential –Theatre Technology
Video Production	**Core Course Sequence** Video Production I Video Production II **Complementary Course(s)** Video Production II LAB ** Video Production Advanced Studies Filmmaking Podcasting for Video Production CTE Work Experience – Arts, A/V Technology, and Communication Industry-Recognized Credential – Video Production

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

** Lab courses are to be taught concurrently with the associated course – see individual course descriptions for requirements and prerequisites.

GRAPHIC DESIGN I **Course #32101-32102**

One year = 1 credit Level 1 (L1)

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 (H) **Course #32103-32104**
One year = 1 credit Level 2 Completer (L2C) State Testing
Pre*requisite:* *Graphic Drafting 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 **Course #32141-32142**
One year = 1 credit Level CC (L2L)
Prerequisite: *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 **Course #32121-32122**
One year = 1 credit Level CC
Prerequisite: *Completion of Graphic Design 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.

2D ANIMATION FOR GRAPHIC DESIGN **Course #32123-32124**
One year = 1 credit Level CC
Prerequisite: *Completion of Graphic Design Program of Study*

This course is offered to students who have completed all contend 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 **Course #32161-32162**
One year = 1 credit Level CC
Prerequisite: *Completion of Graphic Design 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 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. This course may be repeated for additional instruction and credit.

GRAPHIC DESIGN ADVANCED STUDIES **Course #10643-10644**
One year = 1 credit Level AS

Prerequisite: *Graphic Design III*

This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.

MULTIMEDIA COMMUNICATIONS I **Course #32301-32302**
One year = 1 credit Level 1 (L1)
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 networking, 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 (H) **Course #32303-32304**
One year = 1 credit Level 2 Completer (L2C) State Testing
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 **Course #TBA**
One year = 1 credit Level CC (L2L)
Prerequisite: *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 **Course #32321-32322**
One year = 1 credit Level CC
Prerequisite: *Completion of Multimedia Communications 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 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 **Course #TBA**
One year = 1 credit Level CC
Prerequisite: *Completion of Multimedia Communications Program of Study*

This course is offered to students who have completed all contend 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 Course #TBA
One year = 1 credit Level CC
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. This course may be repeated for additional instruction and credit.

THEATRE TECHNOLOGY I **Course #32501-32502**
One year = 1 credit Level 1 (L1)
Prerequisite: *None*

This course will introduce the student to the craft and technical skills of a 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 (H) **Course #32503-32504**
One year = 1 credit Level 2 Completer (L2C) State Testing
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.
*Note to school: Use of this course must be approved through the WCSD CTE Department and requires that the instructor have a secondary CTE teaching license endorsement in this area. If this does not apply to you, please use course #6469-6470.

THEATRE TECHNOLOGY ADVANCED STUDIES **Course #32521-32522**
One year = 1 credit Level CC
Prerequisite: *Completion of Theatre Technology 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.

SET DESIGN **Course #TBA**
One year = 1 credit Level CC
Prerequisite: *Completion of Theatre Technology Program of Study*

This course is offered to students who have completed all contend standards in the Theater 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 **Course #32561-32562**
One year = 1 credit Level CC
Prerequisite: *Completion of Theatre Technology 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 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. This course may be repeated for additional instruction and credit.

THEATRE TECHNOLOGY AS **Course #10857-10858**
One year = 1 credit Level AS
Prerequisite: *Theatre Technology III*

This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.

VIDEO PRODUCTION I **Course #32601-32602**
One year = 1 credit Level 1 (L1)
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 (H) **Course #32603-32604**
One year = 1 credit Level 2 Completer (L2C) State Testing
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 **Course #32641-32642**
One year = 1 credit Level CC (L2L)
Prerequisite: *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 **Course #32621-32622**
One year = 1 credit Level CC
Prerequisite: *Completion of Video Production 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.

FILMMAKING **Course #TBA**
One year = 1 credit Level CC
Prerequisite: *Completion of Video Production Program of Study*

This course is offered to students who have completed all contend 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 **Course #TBA**
One year = 1 credit Level CC
Prerequisite: *Completion of Video Production Program of Study*

This course is offered to students who have completed all contend 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 **Course #32661-32662**
One year = 1 credit Level CC
Prerequisite: *Completion of Video Production 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 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. This course may be repeated for additional instruction and credit.

CTE WORK EXPERIENCE-ARTS A/V TECHNOLOGY AND COMMUNICATION Course #32031-32032
One year = 1 credit Level WK
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.

BUSINESS AND MARKETING EDUCATION

This Career Cluster® is focused on careers in planning, organizing, directing, and evaluating business function essential to efficient and productive business operations.

Program Name	Course Sequence
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

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

PRINCIPLES OF BUSINESS AND MARKETING **Course #33101-33102**
One year = 1 credit Level 1 (L1)
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 (H) **Course #33103-33104**
One year = 1 credit Level 2 Completer (L2C)
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 **Course #33121-33122**
One year = 1 credit Level CC
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 **Course #32125-32126**
One year = 1 credit Level CC
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 **Course # TBA**
One year = 1 credit Level CC
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. This course may be repeated for additional instruction and credit.

CTE WORK EXPERIENCE - BUSINESS MANAGEMENT AND ADMINISTRATION Course #33031-33032
One year = 1 credit Level WK
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.

EDUCATION AND TRAINING

This Career Cluster® is focused on planning, managing, and providing education and training services, and related learning support services.

Program Name	Course Sequence
Early Childhood Education	**Core Course Sequence** Early Childhood Education I Early Childhood Education II **Complementary Course(s)** Early Childhood Education II LAB ** Early Childhood Education Advanced Studies CTE Work Experience – Education and Training Industry Recognized Credential- Early Childhood Education
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 and Training Industry Recognized Credential- Teaching and Training

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.

EARLY CHILDHOOD EDUCATION I **Course #33601-33602**
One year = 1 credit Level 1 (L1)
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 **Course #33603-33604**
One year = 1 credit Level 2 Completer (L2C) State Testing
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 **Course #TBA**
One year = 1 credit Level CC (L2L)
Prerequisite*: 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 **Course #33621-33622**
One year = 1 credit Level CC
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 Course # TBA
One year = 1 credit Level CC
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. This course may be repeated for additional instruction and credit.

TEACHING AND TRAINING I **Course #33701-33702**
One year = 1 credit Level 1 (L1)
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 (H) **Course #33703-33704**
One year = 1 credit Level 2 Completer (L2C) State Testing
Prerequisite: *Teaching & 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 **Course #33721-33722**
One year = 1 credit Level CC
Prerequisite: *Completion of Teaching and Training 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 – TEACHING AND TRAINING **Course # 33761-33762**
One year = 1 credit Level CC
Prerequisite: *Completion of Teaching and Training 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 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. This course may be repeated for additional instruction and credit.

CTE WORK EXPERIENCE - EDUCATION AND TRAINING **Course #33531-33532**
One year = 1 credit Level WK
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.

ACCOUNTING AND FINANCE

This Career Cluster® is focused on planning, services for financial and investment planning, banking, insurance, and business financial management.

Program Name	Course Sequence
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 – Finance Industry-Recognized Credential – Accounting and Finance

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

ACCOUNTING AND FINANCE I **Course #33801-33802**
One year = 1 credit Level 1 (L1)
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, 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 (H) **Course #33803-33804**
One year = 1 credit Level 2 Completer (L2C) State Testing
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 **Course #33821-33822**
One year = 1 credit Level CC
Prerequisite: *Completion of Accounting and Finance 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 – ACCOUNTING AND FINANCE **Course # 33861-33862**
One year = 1 credit Level CC

Prerequisite: *Completion of Accounting and Finance 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 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. This course may be repeated for additional instruction and credit.

CTE WORK EXPERIENCE - FINANCE **Course #33831-33832**
One year = 1 credit Level WK
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.

GOVERNMENT & PUBLIC ADMINISTRATION

This Career Cluster® is focused on planning and performing government functions at the local, state, and federal levels, including governance, national security, foreign service, planning, revenue and taxation, and regulations.

Program Name	Course Sequence
Military Science	**Core Course Sequence** Military Science I Military Science II Military Science III **Complementary Course(s)** Military Science Advanced Studies CTE Work Experience – Government and Public Administration

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

MILITARY SCIENCE I **Course #33901-33902**
One year = 1 credit Level 1 (L1)
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 (H) **Course #33903-33904**
One year = 1 credit Level 2 (L2)
Prerequisite: *Military Science I*

This course is a continuation of Military Science I. This course provides military science students 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 (H) **Course #33905-33906**
One year = 1 credit Level 3 Completer (L3C) State Testing
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 **Course #33921-33922**
One year = 1 credit Level CC
Prerequisite: *Completion of Military Science Program of Study*

This course is a continuation of Military Science III. This course provides advanced military science students 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 – GOVERMEMT AND PUBLIC ADMINISTRATION Course # 33931-33932
One year = 1 credit Level WK
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.

HEALTH SCIENCE

This Career Cluster® is focused on planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.

Program Name	Course Sequence
Biomedical	**Core Course Sequence** Biomedical I Biomedical II Biomedical III **Complementary Course(s)** Biomedical Advanced Studies CTE Work Experience – Health Science
Community Health Science	**Core Course Sequence** Principles of Health Science Community Health Science **Complementary Course(s)** Community Health Science Advanced Studies Health Information Management for Community Health Science Pharmacy Practice for Community Health Science CTE Work Experience – Health Science Industry-Recognized Credential – Community Health Science

Emergency Medical Technician	**Core Course Sequence** Principles of Health Science Emergency Medical Technician **Complementary Course(s)** Emergency Medical Technician LAB ** Emergency Medical Technician Advanced Studies CTE Work Experience – Health Science Industry-Recognized Credential – Emergency Medical Technician
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 – Health Science Industry-Recognized Credential – Medical Assisting
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 – Health Science Industry-Recognized Credential – Nursing Assistant
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 – Health Science
Sports Medicine	**Core Course Sequence** Principles of Health Science Sports Medicine **Complementary Course(s)** Sports Medicine Advanced Studies CTE Work Experience – Health Science Industry-Recognized Credential – Sports Medicine

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.

BIOMEDICAL I **Course #34101-34102**

One year = 1 credit Level 1 (L1)

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 (H) **Course #34103-34104**
One year = 1 credit Level 2 (L2)
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 (H) **Course #34105-34106**
One year = 1 credit Level 3 Completer (L3C) State Testing
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 **Course #34121-34122**
One year = 1 credit Level CC
Prerequisite: *Completion of Biomedical 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.

PRINCIPLES OF HEALTH SCIENCE **Course #34201-34202**
One year = 1 credit Level 1 (L1)
Prerequisite: *None*

This course will introduce students to human structure and function. Areas of study include anatomy, healthcare delivery systems, medical terminology, emergency management, health information technology, and legal practices. The appropriate use of technology and industry-standard equipment is an integral part of this course.

COMMUNITY HEALTH SCIENCE (H) **Course #34203-34204**
One year = 1 credit Level 2 Completer (L2C) State Testing
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 skill for employment and be prepared for postsecondary education.

COMMUNITY HEALTH SCIENCE ADVANCED STUDIES **Course #34223-34224**
One year = 1 credit Level CC
Prerequisite: *Completion of Community Health Science Program of Study*

This course is offered to students who have achieved 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.

HEALTH INFORMATION MANAGEMENT FOR COMMUNITY HEALTH SCIENCE Course #34229-34230
One year = 1 credit Level CC
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 Course #34231-34232
One year = 1 credit Level CC
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 Course # TBA
One year = 1 credit Level CC
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. This course may be repeated for additional instruction and credit.

EMERGENCY MEDICAL TECHNICIAN (H) Course #34205-34206
One year = 1 credit Level 2 Completer (L2C) State Testing
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 Course #34241-34242
One year = 1 credit Level CC (L2L)
Prerequisite: *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 **Course #34225-34226**
One year = 1 credit Level CC
Prerequisite: *Completion of Emergency Medical Technician 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 – EMERGENCY MEDICAL TECHNICIAN Course # TBA
One year = 1 credit Level CC
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. This course may be repeated for additional instruction and credit.

MEDICAL ASSISTING (H) **Course #34207-34208**
One year = 1 credit Level 2 Completer (L2C) State Testing
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 **Course #34243-34244**
One year = 1 credit Level CC (L2L)
Prerequisite: 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 **Course #34227-34228**
One year = 1 credit Level CC
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 **Course # TBA**
One year = 1 credit Level CC
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 **Course # TBA**
One year = 1 credit Level CC
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 **Course # TBA**
One year = 1 credit Level CC
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. This course may be repeated for additional instruction and credit.

NURSING ASSISTANT (H) **Course # 34209-34210**
One year = 1 credit Level 2 Completer (L2C) State Testing
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 **Course #34245-34246**
One year = 1 credit Level CC (L2L)

Prerequisite: *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 **Course #34045-34046**
One year = 1 credit Level CC
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 **Course #34047-34048**
One year = 1 credit Level CC
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 **Course # TBA**
One year = 1 credit Level CC
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. This course may be repeated for additional instruction and credit.

PRACTICAL NURSING I **Course #34401-34402**
One year = 1 credit Level 1 (L1)
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 (H) **Course #34403-34404**
One year = 1 credit Level 2 Completer (L2C) State Testing
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 **Course #34441-34442**
One year = 1 credit Level CC (L2L)
Prerequisite: *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 **Course #34421-34422**
One year = 1 credit Level CC
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 (H) **Course #34211-34212**
One year = 1 credit Level 2 Completer (L2C) State Testing
Prerequisite: *Principles of Health Science*

This course is designed to introduce students to the field of sports medicine. It will provide students the opportunity to explore athletic training and sports medicine related fields. Students will receive instruction in sports medicine terminology, 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 **Course #34221-32422**
One year = 1 credit Level CC
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 **Course # TBA**
One year = 1 credit Level CC
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. This course may be repeated for additional instruction and credit.

CTE WORK EXPERIENCE - HEALTH SCIENCE **Course #34031-34032**
One year = 1 credit Level WK
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 regulation/s.

HOSPITALITY & TOURISM

This Career Cluster® is focused on management, marketing, and operations of restaurants and other food services, lodging, attractions, recreation events, and travel related services.

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

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.

CULINARY ARTS I **Course #34601-34602**
One year = 1 credit Level 1 (L1)
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 (H) **Course #34603-34604**
One year = 1 credit Level 2 Completer (L2C) State Testing
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 **Course #34641-34642**
One year = 1 credit Level CC (L2L)
Prerequisite: *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 **Course #34621-34622**
One year = 1 credit Level CC
Prerequisite: *Completion of Culinary Arts 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.

BAKING AND PASTRY **Course #34623-34624**
One year = 1 credit Level CC
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 **Course #34625-64626**
One year = 1 credit Level CC
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 **Course # 34661-34662**
One year = 1 credit Level CC
Prerequisite: *Completion of Culinary Arts 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 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. This course may be repeated for additional instruction and credit.

CULINARY ARTS ADVANCED STUDIES **Course #10325-10326**
One year = 1 credit Level AS
Prerequisite: *Culinary Arts III*

This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.

FOODS AND NUTRITION ADVANCED STUDIES **Course #10335-10336**
One year = 1 credit Level AS
Prerequisite: *Foods and Nutrition III*

This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.

HOSPITALITY AND TOURISM I **Course #34701-34702**
One year = 1 credit Level 1 (L1)
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 (H) **Course #34703-34704**
One year = 1 credit Level 2 Completer (L2C) State Testing
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 **Course # TBA**
One year = 1 credit Level CC (L2L)
Prerequisite: *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 **Course #34721-34722**
One year = 1 credit Level CC
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 **Course # TBA**
One year = 1 credit Level CC
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. This course may be repeated for additional instruction and credit.

CTE WORK EXPERIENCE- HOSPITALITY AND TOURISM **Course #34531-34532**
One year = 1 credit Level WK
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.

HUMAN SERVICES

This Career Cluster® is focused on preparing individuals for employment in careers that relate to families and human needs such as counseling and mental health services, family and community services, personal care, and consumer services.

Program Name	Course Sequence
Cosmetology	**Core Course Sequence** Principles of Cosmetology Cosmetology I Cosmetology II **Complementary Course(s)** CTE Work Experience – Human Services Industry-Recognized Credential – Cosmetology
Family and Consumer Sciences	**Core Course Sequence** Family and Consumer Sciences I Family and Consumer Sciences II **Complementary Course(s)**

	Family and Consumer Sciences II LAB ** Family and Consumer Sciences Advanced Studies Nutrition for FACS CTE Work Experience – Human Services Industry-Recognized Credential – Family and Consumer Sciences
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 CTE Work Experience – Human Services Industry-Recognized Credential –Human and Social Services

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

PRINCIPLES OF COSMETOLOGY **Course #TBA**

One year = 1 credit Level 1 (L1)

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 I (H) **Course #TBA**

One year = 1 credit Level 2 (L2)

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.

COSMETOLOGY II (H) **Course #TBA**

One year = 1 credit Level 3 Completer (L3C) State Testing

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 post-secondary education.

INDUSTRY-RECOGNIZED CREDENTIAL- COSMETOLOGY **Course #TBA**

One year = 1 credit Level CC

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. This course may be repeated for additional instruction and credit.

FAMILY AND CONSUMER SCIENCES I **Course #35201-35202**
One year = 1 credit Level 1 (L1)
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 (H) **Course #35203-35204**
One year = 1 credit Level 2 Completer (L2C) State Testing
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 **Course #TBA**
One year = 1 credit Level CC (L2L)
Prerequisite: *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 **Course #35221-35222**
One year = 1 credit Level CC
Prerequisite: *Completion of Family and Consumer Sciences 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.

NUTRITION FOR FACS **Course #35223-35224**
One year = 1 credit Level CC
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 Course #35261-35262
One year = 1 credit Level CC
Prerequisite: *Completion of Family and Consumer Sciences 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 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. This course may be repeated for additional instruction and credit.

HUMAN AND SOCIAL SERVICES I **Course #35301-35302**
One year = 1 credit Level 1 (L1)
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 (H) **Course #35303-35304**
One year = 1 credit Level 2 Completer (L2C) State Testing
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 **Course #35321-35322**
One year = 1 credit Level CC
Prerequisite: *Completion of Human and Social Services Program of Study*

This course is offered to students who have achieved 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 – HUMAN AND SOCIAL SERVICES Course #35361-35362
One year = 1 credit Level CC
Prerequisite: *Completion of Human and Social Services 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 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. This course may be repeated for additional instruction and credit.

CTE WORK EXPERIENCE- HUMAN SERVICES **Course #35031-35032**
One year = 1 credit Level WK
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.

INFORMATION TECHNOLOGY

This Career Cluster® is focused on building linkages in information technology occupations for entry level, technical, and professional careers related to the design, development, support, and management of hardware, software, multimedia, and systems integration services.

Program Name	Course Sequence
Advanced Computer Science	**Core Course Sequence** Advanced Computer Science I Advanced Computer Science II or AP Computer Science A **Complementary Course(s)** Advanced Computer Science II LAB ** Advanced Computer Science Advanced Studies Software and App Development for Advanced Computer Science CTE Work Experience – Information Technology Industry-Recognized Credential – Advanced Computer Science
Cybersecurity	**Core Course Sequence** Cybersecurity I Cybersecurity II **Complementary Course(s)** Cybersecurity II LAB ** Cybersecurity Advanced Studies Cryptography CTE Work Experience – Information Technology Industry-Recognized Credential –Cybersecurity
Web Design and Development	**Core Course Sequence** Web Design and Development I Web Design and Development II **Complementary Course(s)** Web Design and Development II LAB ** 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 – Information Technology Industry-Recognized Credential –Web Design and Development

The Employability Skills for Career Readiness Standards must be an integrated component of all CTE course sequences.
** Lab courses are to be taught concurrently with the associated course – see individual course descriptions for requirements and prerequisites.

ADVANCED COMPUTER SCIENCE I **Course #36101-36102**
One year = 1 credit Level 1 (L1)
Prerequisite: *None (successful completion of Computer Science Principles is recommended but not required)*

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) (H) **Course #36103-36104**
One year = 1 credit Level 2 Completer (L2C) State Testing
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) (H) **Course #36105-36106**
One year = 1 credit Level 2 Completer (L2C) State Testing or Level CC
Prerequisite: *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 **Course #36141-36142**
One year = 1 credit Level CC (L2L)
Prerequisite: *Concurrent enrollment in 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 **Course #36121-36122**
One year = 1 credit Level CC
Prerequisite: *Completion of Advanced Computer Science 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.

SOFTWARE AND APP DEVELOPMENT FOR ADVANCED COMPUTER SCIENCE
One year = 1 credit Level CC **Course # TBA**
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 Course # 36161-36162
One year = 1 credit Level CC
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. This course may be repeated for additional instruction and credit.

COMPUTER SCIENCE ADVANCED STUDIES Course #10671-10672
One year = 1 credit Level AS
Prerequisite: *Computer Science III or AP Computer Science Principles*

This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.

CYBERSECURITY I Course #36201-36202
One year = 1 credit Level 1 (L1)
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 (H) Course #36203-36204
One year = 1 credit Level 2 Completer (L2C) State Testing
Prerequisite: *Cybersecurity I*

This course is a continuation of Cybersecurity I. This course provides advance 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 Course #TBA
One year = 1 credit Level CC (L2L)
Prerequisite: *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 **Course #36221-36222**
One year = 1 credit Level CC
Prerequisite: *Completion of Cybersecurity 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.

CRYPTOGRAPHY **Course #TBA**
One year = 1 credit Level CC
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.

INDUSTRY-RECOGNIZED CREDENTIAL – CYBERSECURITY **Course #36261-36262**
One year = 1 credit Level CC
Prerequisite: *Completion of Cybersecurity 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 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. This course may be repeated for additional instruction and credit.

CYBERSECURITY ADVANCED STUDIES **Course #10147-10148**
One year = 1 credit Level AS
Prerequisite: *Cybersecurity III*

This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.

WEB DESIGN AND DEVELOPMENT I **Course #36501-36502**
One year = 1 credit Level 1 (L1)
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 (H) **Course #36503-36504**
One year = 1 credit Level 2 Completer (L2C) State Testing
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 **Course #36541-36542**
One year = 1 credit Level CC (L2L)
Prerequisite: *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 **Course #36521-36522**
One year = 1 credit Level CC
Prerequisite: *Completion of Web Design and Development 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.

2D ANIMATION FOR WEB DESIGN AND DEVELOPMENT **Course #TBA**
One year = 1 credit Level CC
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 Course #TBA
One year = 1 credit Level CC
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.

WEB DESIGN ADVANCED STUDIES **Course #10685-10686**
One year = 1 credit Level AS
Prerequisite: *Web Design and Development III*

This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.

WORK EXPERIENCE - INFORMATION TECHNOLOGY **Course #36031-36032**
One year = 1 credit Level WK
Prerequisite: *Completion of Web Design and Development 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.

LAW, PUBLIC SAFETY, CORRECTIONS AND SECURITY

This Career Cluster® is focused on planning, managing, and providing legal, public safety and protective services and homeland security, including professional and technical support services.

Program Name	Course Sequence
Fire Science	**Core Course Sequence** Fire Science I Fire Science II **Complementary Course(s)** Fire Science Advanced Studies CTE Work Experience – Law, Public Safety, Corrections, and Security Industry-Recognized Credential – Fire Science
Forensic Science	**Core Course Sequence** Forensic Science I Forensic Science II **Complementary Course(s)** Forensic Science Advanced Studies CTE Work Experience – Law, Public Safety, Corrections, and Security Industry-Recognized Credential – Forensic Science
Law Enforcement	**Core Course Sequence** Law Enforcement I Law Enforcement II **Complementary Course(s)** Law Enforcement Advanced Studies CTE Work Experience – Law, Public Safety, Corrections, and Security Industry-Recognized Credential – Law Enforcement

The Employability Skills for Career Readiness Standards must be an integrated component of all CTE course sequences.
** Lab courses are to be taught concurrently with the associated course – see individual course descriptions for requirements and prerequisites.

FIRE SCIENCE I **Course #37201-37202**
One year = 1 credit Level 1 (L1)
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 field and related careers to develop a personal perspective and an institutional professional growth plan to develop team building and leadership skills related to fire science.

FIRE SCIENCE II (H) **Course #37303-37304**
One year = 1 credit Level 2 Completer (L2C) State Testing
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 **Course #37221-37222**
One year = 1 credit Level CC
Prerequisite: *Completion of Fire Science Program of Study*

This course is offered to students who have achieved 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 – FIRE SCIENCE **Course #TBA**
One year = 1 credit Level CC
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. This course may be repeated for additional instruction and credit.

FORENSIC SCIENCE I **Course #37301-37302**
One year = 1 credit Level 1 (L1)
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 (H) **Course #37303-37304**
One year = 1 credit Level 2 Completer (L2C) State Testing

Prerequisite: *Forensic Science I*

This course is a continuation of Forensic Science I. This course allows for 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 **Course #37321-37322**
One year = 1 credit Level CC
Prerequisite: *Completion of Forensic Science Program of Study*

This course is offered to students who have achieved 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 – FORENSIC SCIENCE **Course #TBA**
One year = 1 credit Level CC
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. This course may be repeated for additional instruction and credit.

LAW ENFORCEMENT I **Course #37401-37402**
One year = 1 credit Level 1 (L1)
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 (H) **Course #37403-37404**
One year = 1 credit Level 2 Completer (L2C) State Testing
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 **Course #37421-37422**
One year = 1 credit Level CC

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 **Course #TBA**
One year = 1 credit Level CC
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. This course may be repeated for additional instruction and credit.

CTE WORK EXPERIENCE - LAW, PUBLIC SAFETY, CORRECTIONS, AND SECURITY
One year = 1 credit Level WK **Course #37031-37032**
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.

MANUFACTURING

This Career Cluster® is focused on planning, managing, and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance and manufacturing, and process engineering.

Program Name	Course Sequence
Advanced Manufacturing Technologies	**Core Course Sequence** Advanced Manufacturing Technologies I Advanced Manufacturing Technologies II **Complementary Course(s)** Advanced Manufacturing Technologies II Lab** Advanced Manufacturing Technologies Advanced Studies Advanced Manufacturing Practices CTE Work Experience – Manufacturing Industry-Recognized Credential – Advanced Manufacturing Technologies
Metalworking	**Core Course Sequence** Metalworking I Metalworking II **Complementary Course(s)** Metalworking II LAB ** Metalworking Advanced Studies CTE Work Experience – Manufacturing Industry-Recognized Credential – Metalworking

Welding Technology	**Core Course Sequence** Welding Technology I Welding Technology II **Complementary Course(s)** Welding Technology II LAB ** Welding Technology Advanced Studies Welding Fabrication CTE Work Experience – Manufacturing Industry-Recognized Credential – Welding Technology

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

** Lab courses are to be taught concurrently with the associated course – see individual course descriptions for requirements and prerequisites.

ADVANCED MANUFACTURING TECHNOLOGIES I **Course #38101-38102**
One year = 1 credit Level 1 (L1)
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 (H) **Course #38103-38104**
One year = 1 credit Level 2 Completer (L2C) State Testing
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 **Course #38141-38142**
One year = 1 credit Level CC (L2L)
Prerequisite: *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 **Course #38121-38122**
One year = 1 credit Level CC
Prerequisite: *Completion of Advanced Manufacturing Technologies 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.

ADVANCED MANUFACTURING PRACTICES **Course #TBA**
One year = 1 credit Level CC

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
One year = 1 credit Level CC **Course #38161-38162**
Prerequisite: *Completion of Advanced Manufacturing Technologies 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 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. This course may be repeated for additional instruction and credit.

MANUFACTURING TECHNOLOGIES ADVANCED STUDIES **Course #10923-10924**
One year = 1 credit Level AS
Prerequisite: *Manufacturing Technologies III*

This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.

METALWORKING I **Course #38401-38402**
One year = 1 credit Level 1 (L1)
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 (H) **Course #38403-38404**
One year = 1 credit Level 2 Completer (L2C) State Testing
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 **Course #TBA**
One year = 1 credit Level CC (L2L)

Prerequisite: *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 **Course #38421-38422**
One year = 1 credit Level CC
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 **Course #TBA**
One year = 1 credit Level CC
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. This course may be repeated for additional instruction and credit.

METALWORKING III (H) **Course #10707-10708**
One year = 1 credit Level 3 Completer (L3C) State Testing
Prerequisite: *Metalworking II*

This course is a continuation of Metalworking II. This course is designed to review the elements and processes of metalworking. Students will further develop skills by learning complex metal machining procedures, metallurgy, and industrial production methods and controls. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.

METALWORKING ADVANCED STUDIES **Course #10709-10710**
One year = 1 credit Level AS
Prerequisite: *Metalworking III*

This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.

WELDING TECHNOLOGY I **Course #38501-38502**
One year = 1 credit Level 1 (L1)
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 (H) **Course #38503-38504**
One year = 1 credit Level 2 Completer (L2C) State Testing
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 **Course #38541-38542**
One year = 1 credit Level 2 (L2L)
Prerequisite: *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 **Course #38521-38522**
One year = 1 credit Level CC
Prerequisite: *Completion of Welding Technology 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.

WELDING FABRICATION **Course #TBA**
One year = 1 credit Level CC
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 **Course #38561-38562**
One year = 1 credit Level CC
Prerequisite: *Completion of Welding Technology 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 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. This course may be repeated for additional instruction and credit.

CTE WORK EXPERIENCE - MANUFACTURING **Course #38031-38032**
One year = 1 credit Level WK
Prerequisite: *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.

MARKETING

This Career Cluster® is focused on planning, managing, and performing marketing activities to reach organizational objectives.

Program Name	Course Sequence
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

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

PRINCIPLES OF BUSINESS AND MARKETING **Course #33101-33102**
One year = 1 credit Level 1 (L1)
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 (H) **Course #33105-33106**
One year = 1 credit Level 2 Completer (L2C) State Testing
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 **Course # 33123-33124**
One year = 1 credit Level CC
Prerequisite: *Completion of Marketing 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.

MARKETING ENTREPRENEURSHIP **Course #32127-32128**
One year = 1 credit Level CC
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 **Course #TBA**
One year = 1 credit Level CC
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. This course may be repeated for additional instruction and credit.

CTE WORK EXPERIENCE - MARKETING **Course #33033-33034**
One year = 1 credit Level WK
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.

SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS

This Career Cluster® is focused on planning, managing, and providing scientific research and professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services, and research and development services.

Program Name	Course Sequence
Energy Technologies	**Core Course Sequence** Energy Technologies I Energy Technologies II **Complementary Course(s)** Energy Technologies Advanced Studies Energy Technologies Practices CTE Work Experience – Science, Technology, Engineering, and Mathematics Industry Recognized Credentials- Energy Technologies
Engineering Foundations	**Core Course Sequence** Engineering Foundations I Engineering Foundations II **Complementary Course(s)** Engineering Foundations II LAB ** Engineering Foundations Advanced Studies Aerospace Engineering Architectural and Civil Engineering Electrical Engineering Environmental Engineering Mechanical Engineering CTE Work Experience – Science, Technology, Engineering, and Mathematics Industry Recognized Credential- Engineering Foundations

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

ENERGY TECHNOLOGIES I **Course #38201-38202**
One year = 1 credit Level 1 (L1)
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 (H) **Course #37603-37604**
One year = 1 credit Level 2 Completer (L2C) State Testing
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 **Course #37621-37622**
One year = 1 credit Level CC
Prerequisite: *Completion of Energy Technologies 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.

ENERGY TECHNOLOGIES PRACTICES **Course #37623-37624**
One year = 1 credit Level CC
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 **Course #37661-37662**
One year = 1 credit Level CC
Prerequisite: *Completion of Energy Technologies 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 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. This course may be repeated for additional instruction and credit.

ENGINEERING FOUNDATIONS I **Course #37701-37702**
One year = 1 credit Level 1 (L1)
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 (H) **Course #37703-37704**
One year = 1 credit Level 2 Completer (L2C) State Testing
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 **Course #37741-37742**
One year = 1 credit Level CC (L2L)
Prerequisite: *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 **Course #37721-37722**
One year = 1 credit Level CC

Prerequisite: *Completion of Engineering Foundations 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.

AEROSPACE ENGINEERING **Course #37741-37742**
One year = 1 credit Level CC
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 **Course #37743-37744**
One year = 1 credit Level CC
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 **Course #37745-37746**
One year = 1 credit Level CC
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 **Course #37749-37750**
One year = 1 credit Level CC
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 **Course #37751-37752**
One year = 1 credit Level CC
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 **Course #37761-37762**
One year = 1 credit Level CC
Prerequisite: *Completion of Engineering Foundations 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 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. This course may be repeated for additional instruction and credit.

PLTW – ENGINEERING DESIGN AND DEVELOPMENT **Course #10925-10926**
One year = 1 credit Level AS
Prerequisite: *PLTW-Aerospace Engineering or PLTW-Environmental Sustainability or PLTW-Civil Engineering and Architecture or PLTW-Computer Integrated Manufacturing or PLTW-Digital Electronics*

This course is the capstone course of the Project Lead the Way Pathway to Engineering curriculum. In this capstone course, students work in teams to design and develop an original solution to a valid open-ended technical problem by applying the engineering design process. Students perform research to choose, validate, and justify a technical problem. After carefully defining the problem, teams design, build, and test their solutions while working closely with industry professionals who provide mentoring opportunities. Finally, student teams present and defend their original solution to an outside panel. Upon successful completion of this program, students will be prepared for entry into an Engineering program at the college level.
*Note to school: *Schools must be affiliated with the Project Lead The Way™ program to offer this course.*

CTE WORK EXPERIENCE – SCIENCE, TECHNOLOGY, ENGINEERING, MATHEMATICS
One year = 1 credit Level WK **Course #37531-37532**
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.

TRANSPORTATION, DISTRIBUTION, AND LOGISTICS

This Career Cluster® is focused on planning, management, and movement of people, materials, and goods by road, pipeline, air, rail, and water and related professional support services such as transportation infrastructure planning and management, logistics services, mobile equipment, and facility maintenance.

Program Name	Course Sequence
Automotive Technology	**Core Course Sequence** Automotive Technology I Automotive Technology II **Complementary Course(s)** Automotive Technology II LAB ** Automotive Technology Advanced Studies Intermediate Automotive Technology CTE Work Experience – Transportation, Distribution, and Logistics Industry-Recognized Credential – Automotive Technology

Aviation Technology	**Core Course Sequence** Aviation Technology I Aviation Technology II **Complementary Course(s)** Aviation Technology Advanced Studies Pilot Preparation CTE Work Experience – Transportation, Distribution, and Logistics Industry-Recognized Credential – Aviation Technology
Diesel Technology	**Core Course Sequence** Diesel Technology I Diesel Technology II **Complementary Course(s)** Diesel Technology II LAB ** Diesel Technology Advanced Studies Diesel Applied Concepts CTE Work Experience – Transportation, Distribution, and Logistics Industry-Recognized Credential – Diesel Technology

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

** Lab courses are to be taught concurrently with the associated course – see individual course descriptions for requirements and prerequisites.

AUTOMOTIVE TECHNOLOGY I **Course #39101-39102**

One year = 1 credit Level 1 (L1)

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 (H) **Course #39103-39104**

One year = 1 credit Level 2 Completer (L2C) State Testing

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 **Course #39143-39144**

One year = 1 credit Level CC (L2L)

Prerequisite: *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 **Course #39121-39122**

One year = 1 credit Level CC

Prerequisite: *Completion of Automotive Technology 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.

INTERMEDIATE AUTOMOTIVE TECHNOLOGY **Course #39141-39142**
One year = 1 credit Level CC
Prerequisite: *Completion of Automotive Technology Program of Study*

This course is a continuation of Automotive Technology II. This course provides advanced automotive technology students with in-depth study and skill development in the repair of automotive engines, engine performance, machine operations, steering and suspension service, drive train service, and air conditioning system service 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 **Course #39161-39162**
One year = 1 credit Level CC
Prerequisite: *Completion of Automotive Technology 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 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. This course may be repeated for additional instruction and credit.

AVIATION TECHNOLOGY I **Course #39301-39302**
One year = 1 credit Level 1 (L1)
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 (H) **Course #39303-39304**
One year = 1 credit Level 2 Completer (L2C) State Testing
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 **Course #39321-39322**
One year = 1 credit Level CC

Prerequisite: *Completion of Aviation Technology 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.

PILOT PREPARATION **Course #TBA**
One year = 1 credit Level CC
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 **Course #39361-39362**
One year = 1 credit Level CC
Prerequisite: *Completion of Aviation Technology 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 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. This course may be repeated for additional instruction and credit.

DIESEL TECHNOLOGY I **Course #39401-39402**
One year = 1 credit Level 1 (L1)
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 (H) **Course #39403-39404**
One year = 1 credit Level 2 Completer (L2C) State Testing
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 **Course #39441-39442**
One year = 1 credit Level CC (L2L)
Prerequisite: *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 **Course #39421-39422**
One year = 1 credit Level CC
Prerequisite: *Completion of Diesel Technology 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.

DIESEL APPLIED CONCEPTS **Course #TBA**
One year = 1 credit Level CC
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 **Course #39461-39462**
One year = 1 credit Level CC
Prerequisite: *Completion of Diesel Technology 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 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. This course may be repeated for additional instruction and credit.

DIESEL TECHNOLOGY ADVANCED STUDIES **Course #10769-10770**
One year = 1 credit Level AS
Prerequisite: *Diesel Technology III*

This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.

CTE WORK EXPERIENCE – TRANSPORTATION, DISTRIBUTION, & LOGISTICS

One year = 1 credit Level WK **Course #39031-39032**

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.