AACT Course Catalog
School Year 2024-2025

Courses in this catalog are subject to change and represent our best projection of course offerings for 2024-2025. ***The Academy of Arts, Careers and Technology is committed to creating a school-wide community where students pursue career pathways and develop necessary skills that lead to postsecondary career and/or educational opportunities. We believe our students are prepared for a successful transition to postsecondary schooling and careers when:***

- **We integrate rigorous classroom instruction with real-world experiences that inspire and empower them.**
- **They are academically successful and have demonstrated a mastery of career technical education and workplace readiness skills.**
- **They actively engage in community service as a critical component of global citizenship and success in the 21st century workplace.**

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/.

THE 24-25 SCHOOL YEAR CALENDAR

School begins for high school students on August 12, 2024 (Incline High School: August 19, 2024). For all other important dates, please refer to the calendars posted on the District website at: https://www.washoeschools.net/Page/19060

THE HIGH SCHOOL COURSE OF STUDY

Nevada Revised Statute (NRS) 389.018 describes the course of study in 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 who receive an exemption for cause may take a minimum 2/3 of the academic load (rounding up to the nearest whole class). 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. Students who are not able to complete the required work for a course or who are unable to take the final exam may receive an "INC" (incomplete) provided there has been contact/approval by the student's counselor or administration. Incompletes must be made up within six 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:
Note: Standard Diploma requirements subject to change pending State Board of Education approval.

Course Title	WCSD Standard (2023 - 2027)	WCSD Standard (2028-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	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	-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	6.0	6.0	6.0	6.0	4.0	4.0
Flex Credit	1.0**	2.0**	2.0**	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, or Physics
* 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 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 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 the state seals 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 and pass standards-aligned courses. 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 22.5 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 and the civics examination 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 the Washoe 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 http://cteae.nv.gov/ (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) or Advanced Placement (AP) course, producing the weighted overall GPA. All Dual Credit College Courses also add to the weighted GPA with the equivalent to an AP bump (.050).

FINAL EXAMINATIONS

Students will be required to complete a final examination in all courses which award one-half (.5) credit or more. End of semester exams are cumulative and may consist of skill or performance assessments as well as oral or written examinations, depending upon the objectives of the course and the nature of the class. A student may receive a failing grade and no credit for a course if they do not complete course requirements or for poor performance in the course. Final exams are given during prescribed testing windows only. Students absent on the day of the final exam may be issued a grade of Incomplete (INC) and allowed the opportunity to make-up the exam within a specified timeframe. Semester exams will not be curved, and raw scores will be reported in the gradebook. The grade weight of the semester exam 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 weight of the final exam is not to exceed 20% for any course 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: 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 deadline dates for the 24-25 school year are November 1 and April 4. (Incline High School: November 4 and April 25 / TMCC High School: October 24 and April 4)

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. 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, 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.

WORK STUDY CREDIT

WCSD high school students may apply to earn elective high school credit for working at a paid job. 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 ungraded 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):

- Fee: $50
- 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 (0.5 credit):

- Fee: $75
- Semester course: application and course completion must occur within the dates of each semester and/or summer.
- 60 hours; S/U grade
- Check the Extended Studies website for a list of approved fitness facilities.

Students must 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. Students may count up to 2 hours per day. A maximum of two PE credits may be earned through this course. This course may not be used to raise a passing grade in PE, but it may be used to replace a failing grade in PE. Hours completed prior to the completion of registration are not counted.

Supervised Curriculum PE (SCPE) (0.5 credit):

- Fee: $75
- Semester course: application and completion must occur within the dates of each semester and/or summer.
- 60 hours; S/U grade.

This PE course is designed for those students participating in a sport at the pre-professional level at the national or regional level of competition. An agreement form signed by the student, parent, and coach must be completed. Hours and a progress report completed by the coach must be submitted to Extended Studies monthly. A maximum of two PE credits may be earned through this course. This course may not be used to raise a passing grade in PE, but it may be used to replace a failing grade in PE. Hours earned prior to the completion of registration are not counted.

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 $97 per exam. 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. 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://www.wnc.edu/cte-college-credit/

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 community college or university (such as TMCC, WNC, GBC, UNR, or Sierra Nevada University). 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). In some cases, there may be opportunities for students to participate in a dual credit college course on their high school campus.

Registration: Students can register for dual credit 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 credit 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 credit 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. In some cases, there may be scholarship funding to offset these costs. *This is not guaranteed.*

Earning College and High School Credit: A dual credit course may be applied for either elective or academic high school credit provided it is on the approved list.

- Academic credit refers to those courses which have been approved to meet core course requirements by the WCSD Board of Trustees and the State Board of Education.
- Elective credit refers to those courses which have been approved to be offered as elective credit by the WCSD Board of Trustees and the State Board of Education.

High School Credit for College Courses: A 3, 4, or 5 credit, one-semester college course that is successfully completed by the student will be counted as one (1) high school credit. Grades earned in college courses become part of the student's GPA at both institutions.

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.

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**

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.

English 1-2 (H) **Course #1203-1204**

Full Year = 1 credit (Honors)

Prerequisite: Admission into English 1-2 (H) will be based on the student's previous performance in both reading and writing. Teacher recommendation, current reading level, writing samples, and standardized test scores may be considered; however, a student's motivation and desire to participate in upper-level English courses should be the primary consideration.

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**

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.

English 3-4 (H) **Course #1213-1214**

Full Year = 1 credit (Honors)

Prerequisite: Admission into English 3-4 (H) will be based on the student's previous performance in high school English. Teacher recommendation, current reading level, writing samples, and standardized test scores may be considered; however, a student's motivation and desire to participate in upper-level English courses should be the primary consideration.

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**

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.

English 7-8 **Course #1251-1252**

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.

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 senior 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 will need the approval of the instructor or the recommendation of the previous teacher to enroll in Advanced Placement Literature and Composition. 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 one 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 must have either permission of the AP instructor or the recommendation of the previous English instructor to enroll in this course. Students are required to take the AP Exam in May. All AP exams have a cost associated with them.

Writing through Film (H) **Course #1501-1512**

Full Year = 1 credit (Honors)

This 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. Through close reading of a variety of grade-appropriate, high-quality contemporary works, classical literature, and literary nonfiction, students learn to understand and appreciate films as literature, while the course stresses visual as well as verbal literacy. Students will gain literary and cultural knowledge and 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 analysis – as well as using writing to comprehend text. 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 should 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.

Dual Credit English 101 **Course #14151/14152**

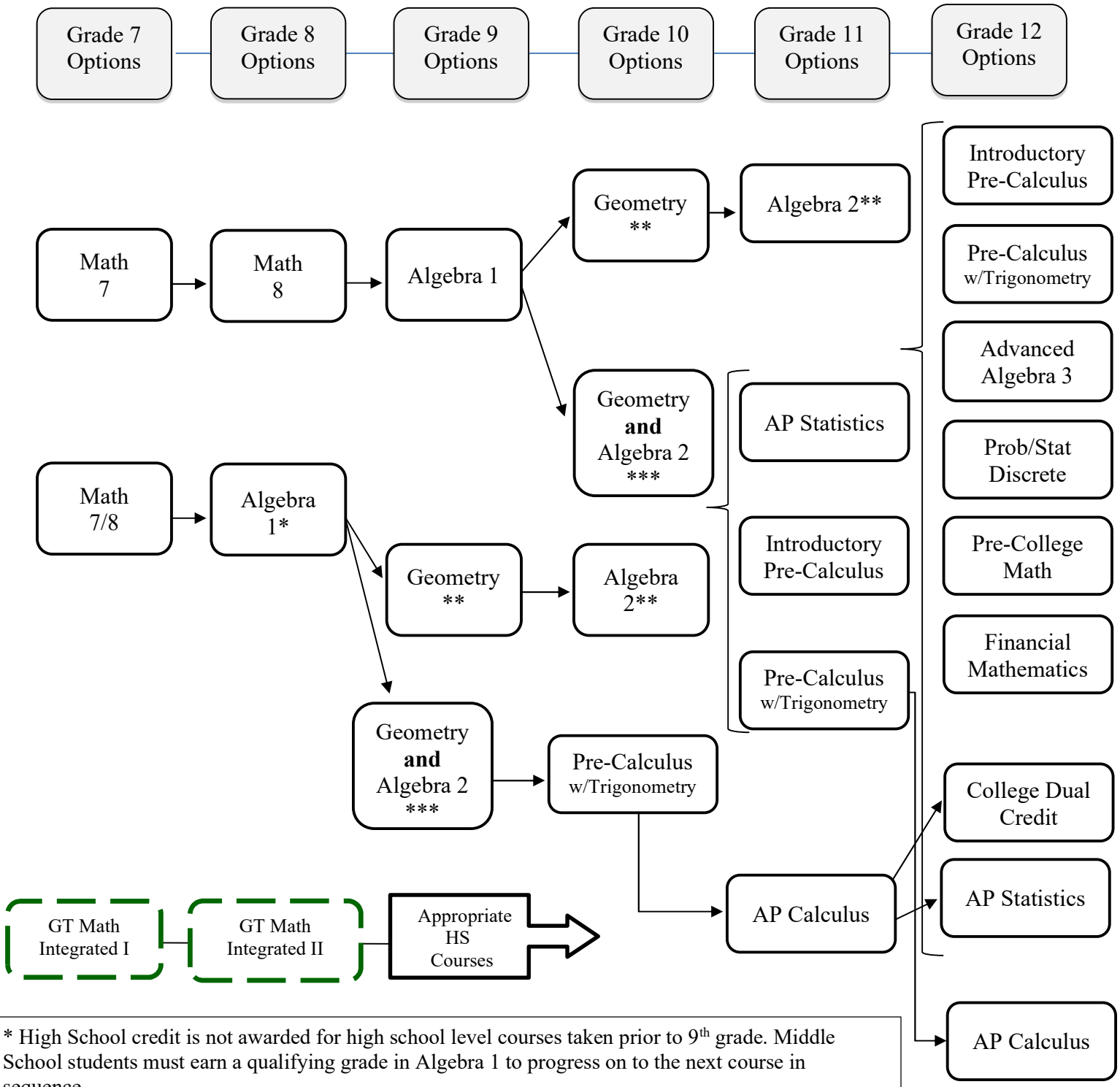
Full Year= 1 credit; 3 college credits

Prerequisite= completion of honors 3-4 and/or teacher recommendation

In 101, be prepared to explore rhetorical processes, emphasizing audience, purpose and occasion of writing. You will learn how to adapt your writing in different genres for different audiences. You will also receive an extensive background in strategies of planning, drafting and revising.

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 the next course in sequence.

** 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).

MATHEMATICS

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 include 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.

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 realistic problems, and use technology when possible.

Formal Geometry **Course #2215-2216**
Full Year = 1 credit (Honors)
Prerequisite: Successful completion of all semesters of Algebra 1. Admission into Formal Geometry will be based on the student's previous performance in addition to teacher recommendation, student's desire to learn and work ethic.
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 (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 realistic problems. 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.

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. Admission into Algebra 2 (H) will be based on the student's previous performance, student's desire to learn and work ethic in addition to teacher recommendation.

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.

Precalculus with Trigonometry **Course #2231-2232**

Full year = 1 credit (Honors)

Prerequisite: Successful completion of all semesters of Algebra 1, Geometry or Formal Geometry and Algebra 2 of Algebra 2 (H). Admission into Precalculus w/Trigonometry will be based on the student's previous performance, student's desire to learn and work ethic in addition to teacher recommendation.

This is a one-year course designed to teach the fundamentals of pre-calculus with trigonometry. The course begins with a review of the basics of functions, polynomial functions and equations, radical and rational functions and equations and exponential and logarithmic functions. Trigonometry topics are trigonometric functions; applications of trigonometric functions, trigonometric identities, polar coordinates, graphs of polar equations, complex numbers, powers and roots. Additional topics are vectors, sequences and series, conics, inverse and composition of functions, and limits. 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.

Probability, Statistics and Discrete Mathematics **Course #2243-2244**

Full Year = 1 credit

Prerequisite: Successful completion of all semesters of Algebra 1, Geometry and Algebra 2.

This is a one-year course designed to provide students with opportunities to explore concrete concepts, probability, statistics and discrete mathematics. The first semester consists of studying set theory, probability, statistics, experimental design, sampling techniques, distributions, measures of center, spread and position. Students are provided with opportunities to collect and analyze data relevant to students and draw conclusions based on this analysis. The second semester will involve hypothesis testing, confidence intervals, correlation, and linear regression, finance, and number representations. Throughout the course, emphasis will be given to providing students with numerous opportunities to model problem situations using hands-on materials, graphing calculators, and computers. Students need to have completed the first semester of Probability, Statistics and Discrete Mathematics in order to continue into the second semester.

Financial Mathematics **Course #2423-2424**

Full Year = 1 credit

Prerequisite: Successful completion of all semesters of Algebra 2.

This one-year course connects practical mathematical concepts to personal and business settings. This course offers informative and highly useful lessons that challenge students to gain a deeper understanding of financial math. Relevant, project-based learning activities cover stimulating topics such as personal financial planning, budgeting and wise spending, banking, paying taxes, the importance of insurance, long-term investing, buying a house, consumer loans, economic principles, traveling abroad, starting a business, and analyzing business data. Offered as a two-semester course for high school students, this course encourages mastery of math skill sets, including percentages, proportions, data analysis, linear systems, and exponential functions. The primary instructional material for this class is the Edgenuity online platform.

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 Readiness Classes

Pre-College Math **Course #2229-2230**

Full year = 1 credit

Prerequisite: Students who enroll in Pre-College should have their credits in Algebra 1 and Geometry. This course is for Juniors or Seniors that need additional time in developing their fundamental skills in math before moving on to upper-level mathematics courses.

This is a two-semester mathematics course designed for students to learn more mathematics before taking Pre-Calculus w/Trigonometry or for seniors that do not qualify for Math 095. Topics covered include the fundamental operations on real numbers, linear equations and inequalities, systems, linear programming, rational exponents, polynomials, rational expressions, roots and radicals, and quadratics. Students will use MathXL and should have access to a computer to participate in this class. At this time this course is not endorsed by the NCAA, if you have questions about this please contact your school counselor.

Algebraic Precalculus **Course #2008**

One semester = 0.5 credit

Prerequisite: Seniors with successful completion of Algebra 2 in both semesters and meet the criteria set by UNR in the Memorandum of Understanding.

This is a one-semester course designed to follow Math 096 to help students place into a credit bearing math course in college. The major topics of this semester of study are exponential and logarithmic functions, and complex numbers, powers and roots, sequences and series, domain and range of advanced functions, notation: set, interval and inequality, composition of functions, polynomial equations and inequalities, rational equations and inequalities, matrix operations and applications, and system of linear equations in three variables. At this time this course is not endorsed by the NCAA, if you have questions about this please contact your school counselor.

Math 126 Precalculus I Dual Credit **Course #14226**

This course satisfies the University of Nevada, Reno Core Mathematics requirement

One semester= 1 credit; 3 college credits

Prerequisite: Algebra 2 with a "B" or better both semesters and teacher recommendation

Course Description: Fundamentals of algebra; polynomial, rational, exponential, and logarithmic functions, their graphs, and applications; complex numbers; absolute value and quadratic inequalities; systems of equations, matrices, determinants.

Math 127 Precalculus II Dual Credit **Course #14227**

This course satisfies the University of Nevada, Reno Core Mathematics requirement

One semester= 1 credit; 3 college credits

Prerequisite: Math 126 with a "C" or better and teacher recommendation

Course Description: Trigonometric functions, identities and equations; conic sections; complex numbers; polar coordinates, vectors; systems of equations, Matrix algebra and more.

SCIENCE COURSE SEQUENCE

Not all science classes are offered at every school

Course Title	Course #
9th Grade *	
Biology	3141/3142
Biology (H)	3143/3144
10th Grade	
Chemistry	3201/3202
Chemistry (H)	3203/3204
Physical Science	3101/3102
Earth Science	3131/3132
11th Grade/12th Grade	
Environmental Science	3111/3112
Forensic Science	3231/3232
Human Anatomy & Physiology (H)	3261/3262
Conceptual Physics	3235/3236
Physics (H)	3241/3242
Microbiology (H)	3171/3172
Astronomy	3267/3268
Zoology 1-2	3163/3164
Earth Science (H)	3133/3134
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

* 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.

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.

Physical Science 1-2 **Course #3101-3102**

Full year = 1 credit

This one-year laboratory course is intended to develop an understanding of fundamental concepts in physical science and is intended as a second-year science course. This course meets the Nevada Academic Content Standards for Science. The Disciplinary Core Ideas to be studied are: *1) Motion and Stability: Forces and Interactions; 2) Waves and Their Applications in Technology for Information Transfer; 3) Earth's Place in the Universe as it Relates to Physics; and 4) Chemistry: Matter and its Interactions.* The performance expectations for high school physical science blend Disciplinary Core Ideas with both Science and Engineering Practices and Crosscutting Concepts to support students in developing an understanding of physical science. In this course, students will use basic mathematical computations and read and write critically to analyze investigations.

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: Two years of science and successful completion of 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.

Requisites: 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.

AP Biology **Course #3149-3150**

Full Year = 1 credit (Advanced Placement)

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

AP Environmental Science **Course #3115-3116**

Full Year = 1 credit (Advanced Placement)

Prerequisite: Successful completion of two years of science; students will be best prepared for the course if they have successfully completed Biology 1-2 and completion of or concurrent enrollment in Chemistry 1-2.

AP Environmental Science is a one-year laboratory science course designed so students use their knowledge of scientific principles and methodologies to understand the interrelationships of the natural world, identify and analyze environmental problems, evaluate the risks associated with current environmental problems, and examine alternative solutions for resolving and/or preventing additional problems. Course goals are focused on environmental issues that have a global impact from the scientific, political and sociological viewpoints. Coursework includes rigorous laboratory and field experiences utilizing the tools of the discipline. Students are required to take the AP exam in May. All AP exams have a cost associated with them.

Environmental Science 101 Dual Credit **Course #12455-14256**

Full Year = 3 UNR Dual Credits

Prerequisite: Completion of Chemistry and/or teacher recommendation

Course Description: This course will provide a survey of basic ecological principles and an examination of selected environmental issues including overpopulation, pollution and energy alternatives.

AP Physics 1 **Course #3263-3264**

Full Year = 1 credit (Advanced Placement)

Prerequisite: Successful completion of Geometry and Algebra 2 or concurrent enrollment in Algebra 2.

This one-year laboratory science course is the equivalent of a first semester college course in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; mechanical waves and sound. It will also introduce electric circuits. Students are required to take the AP exam in May. All AP exams have a cost associated with them.

AP Physics 2 **Course #3265-3266**

Full Year = 1 credit (Advanced Placement)

Prerequisite: Successful completion of Geometry and Algebra 2 or concurrent enrollment in Algebra 2.

This one-year laboratory science course is the equivalent of a second-semester college course in algebra-based physics. The course covers fluid mechanics; thermodynamics; electricity and magnetism; optics; atomic and nuclear physics. Students are required to take the AP exam in May. All AP exams have a cost associated with them.

AP Physics C: Mechanics **Course #3247-3248**

Full Year = 1 credit (Advanced Placement)

Prerequisite: Successful completion of Trigonometry/Pre-Calculus and AP Calculus or concurrent enrollment in AP Calculus.

AP Physics C: Mechanics is a one-year course. The subject matter of the course is mechanics and will include topics such as motion in one or two dimensions, energy, momentum, gravity, and rotational motion. This course is predominantly a problem-solving course. Laboratory experiments will be selected for various purposes, which should

add to the competence, knowledge, and skills of science students. The student will understand that physics is more than a body of knowledge. It is a way of thinking, a highly successful method of solving problems. The course will expose students to a thought process that might well serve the lawyer, the physician, the politician, or anyone else who needs to think through problems. Students are required to take the AP exam in May. All AP exams have a cost associated with them.

AP Physics C: Electricity and Magnetism **Course #3259-3260**
Full Year = 1 credit (Advanced Placement)
Prerequisite: Successful completion of Trigonometry/Pre-Calculus and AP Calculus or concurrent enrollment in AP Calculus.
AP Physics C: Electricity and Magnetism is a one-year, calculus-based, college-level physics course, especially appropriate for students planning to specialize or major in physical science or engineering. The course explores topics such as electrostatics; conductors, capacitors, and dielectrics; electric circuits; magnetic fields; and electromagnetism. Introductory differential and integral calculus is used throughout the course. Students are required to take the AP exam in May. All AP exams have a cost associated with them.

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.

AP Human Geography **Course #4181-4181**
Full Year = 1 World History/World Geography credit (Advanced Placement)
This course is equivalent to an introductory college-level course in human geography. The course introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine socioeconomic organization and its environmental consequences. They also learn about the methods and tools geographers use in their research and

applications. This course is organized around seven units that students explore throughout the course: thinking geographically, population and migration patterns and processes, cultural patterns and processes, political patterns and processes, agriculture and rural land-use patterns and processes, cities and urban land-use patterns and processes, and industrial and economic development patterns and processes. The curriculum reflects the goals of the National Geography Standards (2012). 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 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.

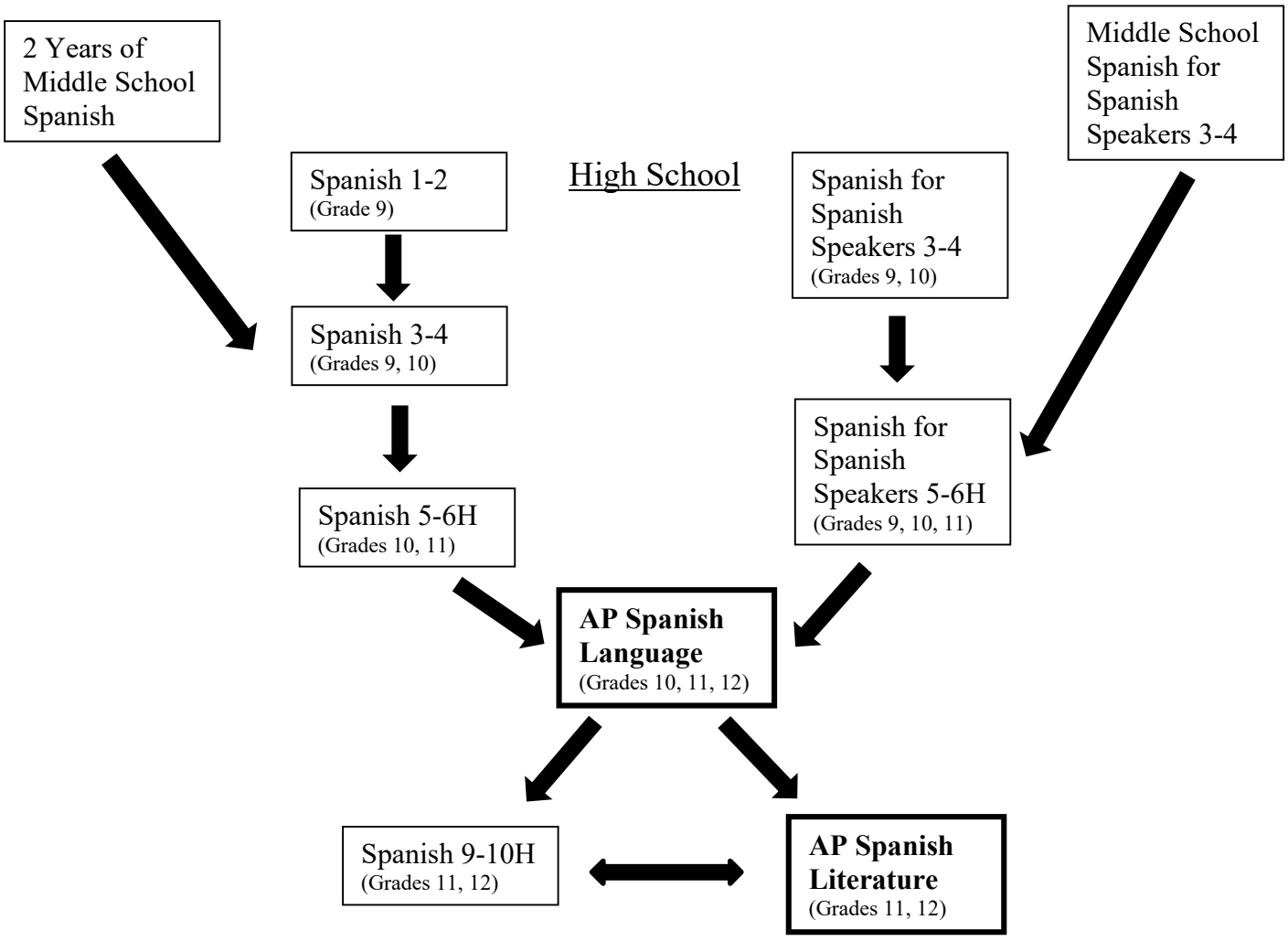
AP US Government & Politics **Course #4171-4172**

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

This course is an introductory level to world language learning. An eclectic approach to language teaching will be used and will include the Core Practices of Language Learning: 90% target language instruction, true interpersonal activities, interpretive tasks using authentic resources, teaching grammar in context, using a backwards design planning model, and providing meaningful and effective feedback. As suggested within the Nevada Academic Content Standards for World Languages Framework, this course integrates the three modes of communication for world language education: Interpretive Listening and Reading, Interpersonal Communication, and Presentational Speaking and Writing. Students will be engaged in activities that stimulate communication, promote critical thinking, and enhance their literacy skills as well as their global cultural awareness. All world languages are performance based and align with the ACTFL (American Council on the Teaching of Foreign Languages) Proficiency scale (Novice-Low to Novice-Mid Range).

World Language Level 3-4 Courses
Full Year = 1 credit

Spanish 3-4 **Course #4613-4614**

This course is a continuation of world language level 1-2. An eclectic approach to language teaching will be used and will include the Core Practices of Language Learning: 90% target language instruction, true interpersonal activities, interpretive tasks using authentic resources, teaching grammar in context, using a backwards design planning model, and providing meaningful and effective feedback. As suggested within the Nevada Academic Content Standards for World Languages Framework, this course integrates the three modes of communication for world language education: Interpretive Listening and Reading, Interpersonal Communication, and Presentational Speaking and Writing. Students will be engaged in activities that stimulate communication, promote critical thinking, and enhance their literacy skills as well as their global cultural awareness. All world languages are performance based and align with the ACTFL (American Council on the Teaching of Foreign Languages) Proficiency scale (Novice-High to Intermediate-Low Range).

World Language Level 5-6 Honors Courses **Course #4615-4616**
Full Year = 1 credit (Honors)
This Honors level course is a continuation of world language level 3-4. An eclectic approach to language teaching will be used and will include the Core Practices of Language Learning: 90% target language instruction, true interpersonal activities, interpretive tasks using authentic resources, teaching grammar in context, using a backwards design planning model, and providing meaningful and effective feedback. As suggested within the Nevada Academic Content Standards for World Languages Framework, this course integrates the three modes of communication for world language education: Interpretive Listening and Reading, Interpersonal Communication, and Presentational Speaking and Writing. Students will be engaged in activities that stimulate communication, promote critical thinking, and enhance their literacy skills as well as their global cultural awareness. All world languages are performance based and align with the ACTFL (American Council on the Teaching of Foreign Languages) Proficiency scale (Intermediate-Low to Intermediate-Mid Range). Note: If this course isn't needed to satisfy the world language requirement, completion of this course may satisfy the humanities requirement for high school graduation.

Spanish 111 Dual Credit with UNR **Course #14246**
Semester= 1 credit; 4 college credits
Prerequisites= completions of Spanish 1-2 with a "B" or higher and/or teacher recommendation
Course Description: Introduction to basic Spanish language structures and cultural topics with a focus on development of communicative proficiency in listening, speaking, reading, and writing. For beginners only.

Spanish 112 Dual Credit with UNR **Course #14247**
Semester = 1 credit; 4 college credits
Prerequisites= completion of Spanish 111 with a "B" or higher and/or teacher recommendation
Course Description: Continues introduction to basic Spanish language structures and cultural topics with a focus on proficiency in listening, speaking, reading, and writing.

World Language Level 9-10 Honors Courses
Full Year = 1 credit (Honors)
Spanish 9-10 (H) – Course #4619-4620
This course is designed to reinforce skills learned in previous Spanish classes. Students will expand their vocabulary, as well as knowledge of Spanish grammar. Students will learn new verb tenses and sentence structures. The 5Cs of World Languages will be included through the courses, which are communication, culture, connections, comparison, and community. These courses will develop the listening, reading, speaking, and writing skills. Note: If this course isn't needed to satisfy the world language requirement, completion of this course may satisfy the humanities requirement for high school graduation.

AP Spanish Language & Culture **Course #4641-4642**
Full Year = 1 credit (Advanced Placement)
The Advanced Placement Spanish Language course is designed for those students interested in broadening their knowledge of Spanish at a pre-college level. The goal of AP Spanish Language is to develop students' communicative ability in the three modes of communication: interpersonal, interpretive, and presentational. Students will participate in daily prompts that emphasize listening, speaking, reading, and writing. Extensive reading in the language is required. Written compositions and essays are assigned regularly, and oral work is required. A complete review of grammar is included. Students are required to take the AP exam in May. All AP exams have a cost associated with them. Note: If this course isn't needed to satisfy the world language requirement, completion of this course may satisfy the humanities requirement for high school graduation.

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.

PE 9-10 **Course #5105-5106**
Full Year = 1 credit **Course #5107**
This course is designed for students in grades 9-10 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.

PE 10-11-12 **Course #5109-5110**
Full Year = 1 credit **Course #5111 (semester)**
This course is designed for students in grades 10-12 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.

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.

AP Computer Science Principles **Course #8389-8390**
One year = 1 credit
Note: Semester 1 earns elective credit and Semester 2 earns computer literacy credit. Students must take the entire year to satisfy the requirement.
This course follows The College Board Advanced Placement curriculum and prepares students for the AP Computer Science Principles exam. This course will introduce students to the essential ideas of computer science and show how computing and technology can influence the world. This course focuses on technology and programing as a means to solve computational problems and find creative solutions. Students will creatively address real-world issues and concerns while using the same processes and tools as artists, writers, computer scientists, and engineers to bring ideas to life. The appropriate use of technology and industry-standard equipment is an integral part of this course. Students are required to take the AP Exam in May. All AP exams have a cost associated with them.

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 notated these fine arts courses fulfill the
"Arts" requirement as part of "Arts/Humanities/CTE/HSROTC 5-6/7-8"

Visual and Performing Arts: Visual Arts

Art 1-2 **Course # 6111-6112**
One 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**
One 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**
One 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. Culmination of the semester will have students submitting a portfolio and artist statements. Students will also submit artwork to the national Scholastic Arts competition.

AP Studio Art: 3D Design **Course #6265-6265**
One Year = 1 credit (Advanced Placement)
Prerequisite: Completion of the 3-4 level Art Courses with a B or better and/or instructor approval.
This class is a year-long course for the advanced student who is seeking intense visual arts experience in a variety of media. These students may be planning a career or college degree in art or visual communication. The Course is designed to prepare students to submit portfolios to the College Board's advanced placement Art Portfolio in 3D-design. Students enrolled in AP studio Art are required to submit a portfolio. This portfolio will consist of 5 pieces of their best quality work and twenty-eight images of work showing a breadth of media and a concentration of one area of study. All AP exams have a cost associated with them.

CONCURRENT ENROLLMENT COURSES

English 101 (English) **Course #14151-14152**

English 102 (English) **Course #14159-14160**

History 101 (Elective) **Course #14233**

History 102 (American History) **Course #14234**

History 102c (American History) **Course #14157-14158**

Political Science 101 (American Government) **Course #14228**

Economics 100 (Economics and Personal Finance) **Course #14101**
Note: UNR only (they have added content to the course to meet the standards)

Economics 101 (Economics and Personal Finance)	**Course #14102**
Math 126 (Mathematics)	**Course #14226**
Math 127 (Mathematics)	**Course #14227**
Math 181 (Mathematics)	**Course #14161-14152**
Math 182 (Mathematics)	**Course #14232**
Statistics 152 (Mathematics)	**Course #14225**
Psychology 101 (Arts/Humanities)	**Course #1453-14155**
Spanish 226 (World Language)	**Course #14155-14156**
Theatre 209 (Arts/Humanities)	**Course #14235**

ELECTIVE COURSES

ADVANCED BIKE SHOP
Semester: Credit: 1/2 credit per semester
This is an advanced course intended to familiarize students with concepts related to the construction and operation of bicycles. Students will receive instruction in intermediate bicycle maintenance, wheel building, basic frame design, use of advanced tools, and smart cycling. Students can earn certification in TS101 (Traffic Skills). All students will be required to wear a bicycle helmet for all riding training. Twenty hours of community service will be required outside of classroom/school time.

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.

ENGINEERING 100 Dual Credit with UNR **TBD**
Semester= 1 credit; 3 college credits
*Course Description***:** Introduces engineering design, professional ethics, project planning, prototype fabrication, engineering creativity, and overview of engineering disciplines. Student teams undertake a term-long design project.

LEADERSHIP
One Year = 1 credit
School leadership refers to the processes, decisions, and actions school leaders take to ensure a school achieves its goals. It involves setting direction, creating a culture of learning, managing staff, ensuring the school is well-resourced and that students are advancing.

PHOTO 1-2 **Course # 6121-6122**
One Year = 1 credit
This course covers the basics of black and white 35 mm photography. Students will learn use and function of the camera, how to develop film, print black and white pictures, and principles of 2-d composition. Surveys important photographers, processes, and historical influences of the nineteenth and twentieth centuries. Students should have unlimited access to a Single Lens Reflex camera with adjustable controls and an internal metering system.

This course builds on skills and knowledge gained in Photography 1 and focuses on advanced picture taking techniques. Advanced camera manipulations will be included with complex experimental darkroom procedures. Digital photography/computer use may be incorporated. Using digital images, students will be introduced to computer manipulation of photos and computer graphics. Teaches students to create and manipulate digital photographs. Covers masking, color corrections, and merging of illustrations with photographs. Examines the ethical and property-rights issues which are raised in the manipulation of images.

YEARBOOK **Course #1403-1404**
One Year = 1 credit
Grades 10-12 (9th w/ teacher approval)
Prerequisite: All yearbook students must have excellent English skills, maintain a 2.5 grade point average, and be willing to work on all aspects of the yearbook production, including selling ads to local merchants. Typing skills and computer knowledge are helpful and of high priority in selecting students for this course. Acceptance will be based on work samples submitted, teacher references, and instructor approval. Application is available from Mr. Hambright.

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 as needed. Class may meet 2-3 times over the summer to plan the book. This course may be repeated for credit.

WORLD CUISINES / CHOCOLATE CONFECTIONS **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. Chocolate Confections - You have seen it, and even tasted it, know learn how it is made. Explore the world of candy, chocolate and confections. You will have an opportunity to learn and produce such things as chocolate truffles, cakes, brittles, candies, mousse and much, much more.

CAREER AND TECHNICAL EDUCATION

Signature Academies and Career & Technical Education

Mission - Connecting education & communities for future success.

Vision - Developing skilled, motivated graduates prepared for college, career and life.

WCSD Signature Academy and Career & Technical Education (CTE) programs add value to the high school experience and prepare students for success! These programs provide a rigorous, stimulating curriculum that engages and motivates students; provide opportunities for students to acquire and practice 21st century skills; and prepare students for success in college, high-skill careers, and life. Signature Academies and CTE are ***education for the future!***

Signature Academy (SA) Magnet Programs

These programs are built on a foundation of CTE principles and programs while offering students the opportunity to more fully explore a broad career area. Signature Academy programs also includes an encore program at Damonte Ranch High School and International Baccalaureate (IB) program at Wooster High School.

Signature Academy enrollment is by application only. To qualify, students must meet minimum academic, attendance and behavior requirements followed by selection through a lottery process. Openings in each program are limited with 75% reserved for zoned students.

FOR MORE INFORMATION about the application requirements, processes and timelines, please visit www.washoeschools.net/sacte/Page/2256 or call the Career & Technical Education Department at 775-327-3945.

WCSD offers the following Signature Academies:

School	Academy	Programs
Damonte Ranch High School	Performing Arts Center (PAC)	Dance, Theater, Instrumental Music (Orchestra and Band), Choir
Galena High School	STEM Academy	Project Lead the Way – Aerospace & Environmental Engineering
Hug High School	Health & Human Services Academy	Sports Medicine, Human Development, Human & Social Services, Culinary Arts
McQueen High School	Culinary Arts Academy	Culinary Arts
North Valleys High School	Center for Agricultural Science & Engineering (CASE)	Agricultural Mechanics, Diesel Technology, Drafting & Design, Ornamental Horticulture/Greenhouse Management
Reed High School	Enterprise Project	Biomedical, Human Development, Human & Social Services, Civil & Environmental Engineering
Reno High School	Red House Project	Information Technology & Media: Graphic Design & Video Production
Spanish Springs High School	Spanish Springs Academy	Sports Medicine, C3 Media – Web Design, Graphic Design, Multimedia Communications, Video Production
Sparks High School	Tech Science & Manufacturing Academy	Construction Technology, Manufacturing Technology
Wooster High School	International Baccalaureate (IB)*	International Baccalaureate Diploma Program International Baccalaureate Career-Related Program (Energy Technology)

High School Course Guide 2023-2024
Career & Technical Education

All WCSD comprehensive high schools offer Career & Technical Education (CTE) programs that are available to all students who attend that school.

Programs marked with an asterisk (*) are programs that require an application/acceptance to enroll.

Academy of Arts, Careers & Technology (AACT)*	Baking & Pastry* Community Health* Computer Science* Culinary Arts* Education & Training*	Emergency Medical Tech* Fire Science Graphic Design* Greenhouse Management* High School of Business* Manufacturing Technology*	Marketing* Natural Resource Management* Veterinary Technician* Video Production* Welding Technology*
Damonte Ranch High School	Computer Science Foods & Nutrition	Theater Technology Video Production	Performing Arts Academy*
Galena High School	Aerospace Engineering* Computer Science	Construction Technology Environmental Engineering*	Foods & Nutrition Metalworking
Hug High School	Baking & Pastry Computer Science Culinary Arts	Human Development IT Essentials	Photography Sports Medicine* Web Design
Incline High School	Automotive Technology Computer Science	Drafting & Design Furniture/Cabinetmaking	Foods & Nutrition Welding Technology
McQueen High School	Automation Automotive Technology Baking & Pastry	Computer Science Construction Technology Culinary Arts	Global Studies Academy* Human Development Manufacturing Technologies
North Valleys High School	Agricultural Mechanics Culinary Arts Diesel Technology	Drafting & Design Graphic Design Greenhouse Management	IT Essentials Photography
Reed High School	Automotive Technology Biomedical * Energy Technology	Foods & Nutrition Graphic Design Manufacturing Technology	Metalworking Military Science
Reno High School	Animation Civil Engineering Computer Science	Graphic Design Sports Medicine Video Production	Web Design
Spanish Springs High School	Animation Automotive Technology Baking & Pastry Education & Training Entrepreneurship	Fashion Construction/Design Foods & Nutrition Graphic Design IT Essentials Photography	Sports Medicine* Video Production Web Design
Sparks High School	Construction Technology Family/Consumer Science	Manufacturing Technology Photography	Web Design
TMCC High School @ATC*	Advanced Manufacturing* Automotive* Architecture*	Construction Design* Diesel* Drafting*	HVAC/Refrigeration* Welding* Unmanned Ariel Vehicles*
Wooster HS	Computer Science Energy Technology	Metalworking Photography	International Baccalaureate (IB)*

Academy of Arts, Careers & Technology (AACT High School)

This Signature Academy high school is a Career Tech Academy (CTA) for students in grades 9-12 who have a focused interest in one of eight career pathways:

- Business Management
- Communication Arts & Media
- Culinary & Hospitality
- Education & Training
- Engineering
- Medical Careers
- Natural Resources & Animal Science
- Fire Science

The Academy offers rigorous academic and career curriculum to prepare students to be highly competitive in both a university and career setting. This includes Honors and Advanced Placement (AP) courses, college-level career curriculum taught by industry professionals, and a focus on developing 21st century skills through service learning, job shadows/internships, and leadership activities. In addition to earning AP college credits, students completing a four-year program at the Academy can earn up to 21 college credits in their career area.

Students who excel at the Academy demonstrate strong personal leadership skills through active participation in their career academy, a commitment to academic excellence, consistent daily attendance, and positive self-management that supports the Academy's community values. Students selected to attend the Academy accept responsibility and accountability for their academic and social behavior in order to gain the most benefit from the school experience. AACT offers many opportunities that are similar to traditional schools such as spirit weeks, dances, student government, annual performances, and various clubs. Additionally, all students participate in the student organization associated with their chosen career pathway, such as SkillsUSA, FBLA, HOSA and FFA. These organizations offer opportunities for leadership, competition, networking, and travel. The Academy does not offer programs in the traditional arts (music, art, and drama), ROTC, or athletics. Student may participate in athletics at their zoned school. As well, the Academy is a member of the National Technical Honor Society (NTHS), recognizing and honoring student excellence.

AACT is centrally located at 380 Edison Way in Reno. The facility features cutting edge laboratories in each career area, equipped with the most up-to-date technology and equipment available. For students enrolled at the Academy, **transportation is provided** from various pick-up locations throughout the district.
Apply: Incoming 9th grade students interested in becoming Academy Trailblazers (full-time) must submit a Signature Academy application through the Signature Academies and Career Technical Education Department, and meet the minimum criteria for academics, behavior, and attendance. AACT accepts applications from 10th grade students directly either in person or via fax. Students in 11th or 12th grade who have CTE credits from their previous school are also welcome to apply.

FOR MORE INFORMATION: Visit the website at www.washoeschools.net/aact or call 775-327-3920.

Business – High School of Business

Year 1 Course: HSB Principles of Business/HSB Business Economics
Year 2 Course: HSB Principles of Marketing/HSB Principles of Finance
Year 3 Course: HSB Principles of Management/ HSB Business Strategies
Year 4 Course: HSB Leadership/HSB Wealth Management

Related Occupations 2024 Median Annual Pay

- Advertising, promotions, marketing manager ($84,500)
- Budget analyst ($82,167)
- Financial analyst ($103,738)
- Sales manager ($112,584)

PRINCIPLES OF BUSINESS AND MARKETING

10217-10218 CREDIT 1.0 Level 1 District Common Semester Final

Prerequisite: None

This course is an entry-level course in the Business Management, Entrepreneurship, Marketing, and Sports & Entertainment Marketing programs that develops student understanding and skill in areas such as business law, communications, customer relations, economics, information management, marketing, and operations. Students acquire knowledge of fundamental business and marketing activities, factors affecting business, develop verbal and written communications skill, and participate in career exploration and planning.

MARKETING I (H)

10215-10216 CREDIT 1.0 Level 2 District Common Semester Final

Prerequisite: Principles of Business and Marketing

This course is a continuation of the Marketing and Entrepreneurship programs. Students will learn and practice skills in the functional areas of marketing: channel management, marketing-information management, market planning, market research, pricing, promotion, product management and professional selling. Ethical and legal issues of these functions will be covered. The appropriate use of technology and industry-standard equipment is an integral part of this course.

MARKETING II (H)

10237-10238 CREDIT 1.0 Level 3 Completer (L3C) State Testing Required

Prerequisite: Marketing I

This course is a continuation of the Marketing and Entrepreneurship programs. Students will learn and practice skills in the functional areas of marketing: channel management, marketing-information management, market planning, market research, pricing, promotion, product management and professional selling. Ethical and legal issues of these functions will be covered. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-levelskills for employment and be prepared for postsecondary education.

HSB BUSINESS ECONOMICS

10244 CREDIT .5 Level 1

Prerequisite: HSB Principles of Business

In Business Economics, a project-based business course, students expand their understanding that businesses are influenced by external factors that are often beyond their control. Consumer spending, government policies, economic conditions, legal issues, and global competitionare addressed through practical, current applications to everyday societal and business life. Decision matrices are introduced, and the importance and costs of quality are stressed. Students develop their knowledge and skills in such areas as economics, entrepreneurship, operations, and professional development. Throughout the course, students

will be presented with current economic problems for which they areasked to determine solutions, often through the application of decision matrices.

HSB BUSINESS STRATEGIES

10250 CREDIT .5 Level 3 Completer (L3C) State Testing Required

Prerequisite: HSB Principles of Management

Business Strategies serves as the capstone course for the High School of Business™ program. Students employ their decision matrices to finalize marketing, financial, and management plans developed previously, incorporating them into a business plan for a non-profit organization. The non-profit venture is actualized during the course, requiring students to engage in risk assessment, strategic planning, and performance assessment.

HSB LEADERSHIP

10241 CREDIT .5 Level Complementary

Prerequisite: None

Leadership, a project-based leadership course, develops student understanding and skills in such areas as communication skills, emotional intelligence, operations, and professional development. Students acquire an understanding and appreciation of the need for leadership skills. Toencourage immediate implementation of leadership skills, Leadership utilizes an on-going service-learning project for course delivery and reinforcement. The course content is sequenced for students to identify, plan, implement, and evaluate a service-learning project based on the needs of their community/school. Throughout the course, students are presented problem-solving situations for which they must apply academic and critical thinking skills. Formal reflection is an on-going component of the course.

HSB PRINCIPLES OF BUSINESS

10243-10244 CREDIT 1.0 Level 1

Prerequisite: None

Principles of Business, a project-based business course, develops student understanding and skills in such areas as business law, economics, financial analysis, human resources management, information management, marketing, operations, and strategic management. Through the useof three projects, students acquire an understanding and appreciation of the business world. They develop a business analysis report, conduct an environmental scan of the local business community, and investigate business activities. Current technology will be used to acquire information and to complete the projects. Throughout the course, students are presented problem-solving situations for which they must apply academic and critical thinking skills. Formal reflection is an on-going component of the course.

HSB PRINCIPLES OF MANAGEMENT

10249 CREDIT .5 Level 3 Completer (L3C) State Testing Required

Prerequisite: HSB Principles of Finance

Principles of Management is a project-based business course that expands student understanding of management. Students acquire an appreciation for aspects of management, such as project management, human resources management, knowledge management, quality management, and risk management. In addition, ethical and legal considerations affecting business activities are stressed, and students develop managerial and supervisory skills through interaction with lower grade-level High School of Business™ students. Decision matrices are employed to aid in management planning.

HSB PRINCIPLES OF MARKETING AND FINANCE

10245-10246 CREDIT 1.0 Level 2

Prerequisite: HSB Business Economics

Principles of Marketing is a project-based business course that develops student understanding and skills in the functional areas of marketing:channel management, marketing-information management, market planning, pricing, product/service management, promotion, and selling. Students acquire an understanding and appreciation of each of the marketing functions and their ethical and legal issues. Decision matrices areemployed to aid in market planning.

HSB WEALTH MANAGEMENT

10242 CREDIT .5 Level 2

Prerequisite: None

This project-based financial literacy and investment course develops student understanding and skills in such areas as personal finance, types of investment, the stock market, and stock valuation. Students acquire an understanding and appreciation of the need for personal financial management and investing. To encourage immediate implementation of financial literacy and investment skills, Wealth Management utilizes an on-going investment project for course delivery and reinforcement. The course content is sequenced for students to develop a diversified, balanced investment portfolio based both on their interest in products and companies and on fundamental analysis. Throughout students are presented problem-solving situations for which they must apply academic and critical-thinking skills.

Communication Arts & Media (Graphic Design)

Year 1 Course: Graphic Design I Year 2 Course: Graphic Design II Year 3 Course: Graphic Design III	**Applicable TMCC College Credits** CE 201 Workplace Readiness Skills (3 credits) GRC 107 Design Fundamentals (4 credits) GRC 109 Color and Design (4 credits) **Degree Pathway**: Associate of Applied Science (Graphic Communications) **Related Occupations 2024 Median Annual Pay** • Art Director: $144,016 (bachelor's) • Fashion Designer: $89,000 (bachelor's) • Graphic Designer: $78,862 (bachelor's) • Industrial Designer: $65,819 (bachelor's) • Interior Designer: $56,460 (bachelor's) • Multimedia Artists & Designers: $70,530 (bachelor's) • Web Developer: $84,471 (associate's)	**Potential Savings@ $98.75/credit (before books & materials)** $691

GRAPHIC DESIGN I

10633-10634 CREDIT 1.0 Level 1 District Common Semester Final

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)

10635-10636 CREDIT 1.0 Level 2 District Common Semester Final

Prerequisite: Graphic Design I

This course is a continuation of Graphic Design I. This course provides advanced graphic design students with instruction in advanced techniques and processes. Students will work on projects simulating challenges found in the design industry such as corporate identity, publishing, advertising, and web applications. Students will develop their skills utilizing industry-standard software and equipment. Portfoliodevelopment will be emphasized. The appropriate use of technology and industry-standard equipment is an integral part of this course.

GRAPHIC DESIGN II LAB

10637-10638 CREDIT 1.0 Level 2

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 appliesthe 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 III (H)

10639-10640 CREDIT 1.0 Level 3 Completer (L3C) State Testing Required

Prerequisite: Graphic Design II

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.

Communication Arts & Media (Video Production)

Year 1 Course: Video Production I Year 2 Course: Video Production II Year 3 Course: Video Production III Complimentary Course: Photography I	**Applicable TMCC College Credits** CE 201 Workplace Readiness Skills (3 credits)GRC 182 Digital Video Production (4 credits) **Degree Pathway**: Associate of Applied Science (Graphic Communications) **Related Occupations 2024 Median AnnualPay** • Art Director: $144,016 (bachelor's) • Film & Video Editor / Camera Operator: $58,210 (associate's, bachelor's) • Multimedia Artists & Designers: $70,530 (bachelor's)	**Potential Savings@ $98.75/credit (before books & materials)** $691

VIDEO PRODUCTION I

10653-10654 CREDIT 1.0 Level 1 District Common Semester Final

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 withvideo production techniques for a variety of purposes, including broadcast journalism.

VIDEO PRODUCTION II (H)

10655-10656 CREDIT 1.0 Level 2 District Common Semester Final

Prerequisite: Video Production I

This course is a continuation of Video Production I. This course provides intermediate video production students with instruction in advancedtechniques and processes. Emphasis is placed on the advanced principles in pre/post-production, editing techniques, studio and engineeringprocedures, and live broadcast skills. The appropriate use of technology and industry-standard equipment is an integral part of this course.

VIDEO PRODUCTION II LAB

10657-10658 CREDIT 1.0 Level 2

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 appliesthe 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 III (H)

10659-10660 CREDIT 1.0 Level 3 Completer (L3C) State Testing Required

Prerequisite: Video Production II

This course is a continuation of Video Production II. This course provides advanced video production students with instruction in advanced techniques and processes. Emphasis is placed on the advanced principles in pre/post-production, editing techniques, studio and engineeringprocedures, and live broadcast skills. Students will become familiar with video production techniques for a variety of purposes, including broadcast journalism. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.

VIDEO PRODUCTION III LAB

10661-10662 CREDIT 1.0 Level 3

Prerequisite: Concurrent enrollment in Video Production III

This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that appliesthe 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 thiscourse.

PHOTOGRAPHY I

10645-10646 CREDIT 1.0 Level 1 District Common Semester Final

Prerequisite: None

This course is designed to introduce students to the fundamentals of commercial photography in relation to seeing photographically, operating cameras, use of light, image capture, and processing digital images. Students will also learn the history of photography, legal and ethical issuesrelated to the industry. Career exploration is also a part of this course. Industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-levelskills for employment and be prepared for postsecondary education.

Computer Science

Year 1 Course: AP Computer Science Principles Year 2 Course: Computer Science II Year 3 Course: AP Computer Science A Year 4 Course: Computer Science Advanced Studies	**Applicable TMCC College Credits** CE 201 Workplace Readiness Skills (3 credits) Computer Science II (3 credits)AP Computer Science A (4 credits) (Associate of Applied Sciences) **Related Occupations 2024 Median Annual Pay** • Computer Programmer - $81,920 • Software Developers – $128,000 • Computer and Information SystemsManagers - $164,070 • Computer Systems Analyst – $116,297	**Potential Savings @ $98.75/credit (before books & materials)** $691

AP COMPUTER SCIENCE PRINCIPLES (H)

10927-10928 CREDIT 1.0 Level 1 District Common Final

Prerequisite: None

This course follows The College Board Advanced Placement curriculum and prepares students for the AP Computer Science Principles exam. This course will introduce students to the essential ideas of computer science and show how computing and technology can influence the world.This course focuses on technology and programing as a means to solve computational

problems and find creative solutions. Students will creatively address real-world issues and concerns while using the same processes and tools as artists, writers, computer scientists, and engineers to bring ideas to life. The appropriate use of technology and industry-standard equipment is an integral part of this course.

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

10699-10700 CREDIT 1.0 Level 3 District Common Final

Prerequisite: Successful completion of Computer Science II

This course follows The College Board Advanced Placement 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 andindustry-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. Students must take the Advanced Placement Computer Science AP Test given in May in order to get AP credit. This exam costs approximately $95.

COMPUTER SCIENCE ADVANCED STUDIES

10671-10672 CREDIT 1.0 Level AS District Common Final

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 givedirections, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences suchas 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.

Culinary Arts

Year 1 Course: Culinary I Year 2 Course: Baking I Year 3 Course: Culinary II Year 4 Course: Culinary III	**Applicable TMCC College Credits** CE 201 Workplace Readiness Skills (3 credits) CUL 100 – Sanitation/HACCP (2 credits – must earnnational sanitation certification for CUL 100 credit) CUL 105 – Basic Skills Development (3 credits) CUL 106 – Understanding Culinary Techniques (6 credits) **Degree Pathway**: Associate of Applied Science (Culinary Arts) **Related Occupations 2024 Median Annual Pay** • Head Chef: $60,061 (HS diploma) • Food Service Manager: $52,184 (HS diploma)	**Potential Savings@ $98.75/credit (before books & materials)** $1,383

CULINARY ARTS I

10313-10314 CREDIT 1.0 Level 1 District Common Semester Final

Prerequisite: None

This course provides students with an introduction to the principles and techniques of commercial food production. The classroom is patternedafter industry with emphasis on the standards of food service occupations. Students acquire basic skills in food handling, food and nutritional science, equipment technology, cooking methods, kitchen safety, sanitation procedures, and employability skills. The appropriate use of technology and industry-standard equipment is an integral part of this course.

CULINARY ARTS II (H)

10317-10318 CREDIT 1.0 Level 2 District Common Semester Final

Prerequisite: Culinary Arts I

This course is a continuation of Culinary Arts I. This course allows intermediate culinary students to build on fundamental skills developed inCulinary Arts I. Students will receive practical training in areas of food preparation, equipment use, and service. The appropriate use of technology and industry-standard equipment is an integral part of this course.

CULINARY ARTS II LAB

10319-10320 CREDIT 1.0 Level 2

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 appliesthe 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 III (H)

10321-10322 CREDIT 1.0 Level 3 Completer (L3C) State Testing Required

Prerequisite: Concurrent enrollment in Culinary Arts II

This course is a continuation of Culinary Arts II. This course provides advanced culinary students with instruction in advanced techniques andprocesses. They will continue to develop all skills learned in Culinary Arts I and II. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.

CULINARY ARTS III LAB

10323-10324 CREDIT 1.0 Level 3

Prerequisite: Concurrent enrollment in Culinary Arts III

This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that appliesthe 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.

BAKING AND PASTRY I (H)

10301-10302 CREDIT 1.0 Level 2 District Common Semester Final

Prerequisite: Culinary Arts I

This course is an option following Culinary Arts I. This course allows culinary students more in-depth study of baking and pastry arts. Areas of study include baking terminology, tool and equipment use, formula conversions, functions of ingredients, and methods used in creating breads, pastries, cookies, and other desserts. The fundamentals of dough and basic decorating skills are covered. The appropriate use of technology and industry-standard equipment is an integral part of this course.

BAKING AND PASTRY II (H)

10305-10306 CREDIT 1.0 Level 3 Completer (L3C) State Testing Required

Prerequisite: Baking and Pastry I

This course is a continuation of Baking and Pastry I. This course provides advanced baking students with instruction in advanced techniques andprocesses. They will continue to develop skills learned in Culinary Arts I and Baking and Pastry I. The appropriate use of technology and
industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-levelskills for employment and be prepared for postsecondary education.

BAKING AND PASTRY II LAB

10307-10308 CREDIT 1.0 Level 3

Prerequisite: Concurrent enrollment in Baking and Pastry II

This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that appliesthe 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.

Education & Training

Year 1 Course: Education & Training I
Year 2 Course: Education & Training II
Year 3 Course: Education & Training III

Related Occupations 2024 Median Annual Pay

- Elementary School Teacher: $57,568 (bachelor's)
- Middle School Teacher: $57,568 (bachelor's)
- High School Teacher: $57,568 (bachelor's)
- School Counselor: $57,568 (bachelor's / master's)
- School Administrator: $94,390 (master's)
- School Psychologist: $77,030 (doctorate / professional degree)

HUMAN DEVELOPMENT I

**Satisfies Health Requirement*

10885-10886 CREDIT 1.0 Level 1 District Common Semester Final

Prerequisite: None

This course introduces the topic of Human Development. Areas of study include the stages of human growth and development throughout the lifespan with a focus on conception through childhood. Topics include developmental stages and influences on physical, intellectual, social and emotional growth.

TEACHING & TRAINING I

10401-10402 CREDIT 1.0 Level 1 District Common Semester Final

Prerequisite: None

This course provides students with an introduction to the principles of teaching and training. Areas of emphasis include teaching and learning theory, characteristics of an educator, planning developmentally appropriate lessons, health and safety practices, and fundamentals for development of learners in an educational setting. Students will explore instructional practices that integrate diversity awareness including appreciation of all cultures and their important contributions to society. The appropriate use of technology and industry-standard equipment arean integral part of the course. Students will research the requirements of teaching and training careers and begin to develop a career portfolio.

TEACHING & TRAINING II (H)

10403-10404 CREDIT 1.0 Level 2 District Common Semester Final

Prerequisite: Teaching & Training I

This course is a continuation of Teaching and Training I. This course provides Teaching and Training II students with instruction in intermediatetechniques and processes including ethics, professionalism, reflective practice, lesson planning and implementation, classroom management, characteristics of a diverse learner, and rules and regulations. The appropriate use of technology and industry-standard equipment are an integral part of the course. Students will research the requirements of teaching and training careers and continue to develop a career portfolio.

TEACHING & TRAINING III (H)

10405-10406 CREDIT 1.0 Level 3 Completer (L3C) State Testing Required

Prerequisite: Teaching & Training II

This course is a continuation of Teaching and Training II. This course provides Teaching and Training III students with instruction in advanced techniques and processes. Students will continue to develop all skills learned in Teaching and Training I and II. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.

TEACHING & TRAINING 201

14245 CREDIT 1.0 and 3.0 COLLEGE CREDITS Introductory to Teaching Prek-8

Prerequisite: Teaching & Training II

Emphasizes the characteristics of effective teachers in contemporary classrooms. Includes field experience.

TEACHING & TRAINING 203

14248 CREDIT 1.0 and 3.0 COLLEGE CREDITS Introduction to Special Education

Prerequisite: Teaching & Training II

Focus on teacher roles. Foundations and characteristics of effective instruction of students with various disabilities, in general education classrooms.

Engineering (Manufacturing Technologies)

Year 1 Course: Metalworking I Year 2 Course: Manufacturing Technology I &Wielding I Year 3 Course: Manufacturing Technology II & Lab Year 4 Course: Manufacturing Technology III & Lab	**Applicable TMCC College Credits** CE 201 – Workplace Readiness (3 credits) DFT 110 – Print Reading for Industry (3 credits) ELM 110 – Electrical/Electronic Circuits (2 credits) ELM 134 – Programmable Logic Controllers (2 credits) MPT 110 – Automated Production Concepts (1 credit) MT 108 – Fluid Power (3 credits) OSH 222 – General Industry Safety (1 credit)WELD 101 – Basic Metals (3 credits) **Degree Pathway**: Associate of Applied Science (Manufacturing Technologies – Production Systems Emphasis) **Related Occupations 2024 Median Annual Pay** • Industrial Engineering Technician: $54,280 (associate's) • Materials Engineer: $94,610 (bachelor's) • Industrial Production Manager: $100,580 (bachelor's)	**Potential Savings@ $98.75/credit (before books & materials)** $1,776

METALWORKING I

10703-10704 CREDIT 1.0 Level 1 District Common Semester Final

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.

MANUFACTURING TECHNOLOGIES I

10913-10914 CREDIT 1.0 Level 1 District Common Semester Final

Prerequisite: None

This course introduces students to the fundamentals of manufacturing technologies. Areas of emphasis include lab safety, print reading, measuring techniques, power systems, basic mechanical systems, and basic electricity. Students will gain experience in technical processes associated with metal, wood, and composites.

MANUFACTURING TECHNOLOGIES II (H)

10915-10916 CREDIT 1.0 Level 2 District Common Semester Final

Prerequisite: Manufacturing Technologies I

This course is a continuation of Manufacturing Technologies I. This course provides intermediate manufacturing technologies students the ability to further their skills and knowledge levels. Areas of emphasis include spatial reasoning, 3D modeling,additive/subtractive manufacturing processes, joining/fastening processes, and basic instrumentation principles. The appropriate use of technology and industry-standard equipment is an integral part of this course.

MANUFACTURING TECHNOLOGIES II LAB

10917-10918 CREDIT 1.0 Level 2

Prerequisite: Concurrent enrollment in Manufacturing Technologies II

This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that appliesthe 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.

MANUFACTURING TECHNOLOGIES III (H)

10919-10920 CREDIT 1.0 Level 3 Completer (L3C) State Testing Required

Prerequisite: Manufacturing Technologies III

This course is a continuation of Manufacturing Technologies II. This course provides advanced manufacturing technologies students the ability to further their skills and knowledge levels. Areas of emphasis include product development, marketing, quality control, automation, 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.

MANUFACTURING TECHNOLOGIES III LAB

10921-10922 CREDIT 1.0 Level 3

Prerequisite: Concurrent enrollment in Manufacturing Technologies II

This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that appliesthe 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 (Welding Technology)

Year 1 Course:Metalworking I Year 2 Course: Welding Technology I & Manufacturing Technology Year 3 Course: Welding Technology II & Lab Year 4 Course: Welding Technology III & Lab	**Applicable TMCC College Credits** CE 201 – Workplace Readiness (3 credits) MTT 101 – Introduction to Machine Shop (3 credits) OSH 222 – General Industry Safety (1 credit) WELD 101 – Basic Metals (3 credits) WELD 211 – Welding I (3 credits) WELD 212 – Welding I Practice (2 credits) WELD 221 – Welding II (3 credits) WELD 222 – Welding II Practice (2 credits) **Degree Pathway**: Associate of Applied Science (Manufacturing Technologies – Welding Emphasis) **Related Occupations 2024 Median Annual Pay** • Welder: $54,630 • Ironworker: $66,193	**Potential Savings@ $98.75/credit (before books & materials)** $1,975

METALWORKING I

10703-10704 CREDIT 1.0 Level 1 District Common Semester Final

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.

WELDING TECHNOLOGY I

10729-10730 CREDIT 1.0 Level 1 District Common Semester Final

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 the American Welding Society Certification test. This course is intended to provide students withthe basic knowledge, skills, and theory in the characteristics of metals, their structure and

properties, and welding technologies. Students will gain an understanding of welding equipment, tools, safety procedures, machine operation, and industrial applications, and provide them with entry-level skills for employment.

WELDING TECHNOLOGY II (H)

10731-10732 CREDIT 1.0 Level 2 District Common Semester Final

Prerequisite: Welding Technology I

This course is a continuation of Welding I. This course provides intermediate welding students the ability to augment and further their skills and knowledge levels. Areas of study will include advanced layout and fabrication methodologies, gas tungsten arc welding of aluminum, stainless steel and TIG spot welding, welding metallurgy, and electric theory. All student activities are designed to enhance students' skill levels toward achievement of American Welding Society certification and/or American Society of Mechanical Engineering welding certification. The appropriateuse of technology and industry-standard equipment is an integral part of this course.

WELDING TECHNOLOGY II LAB

10741-10742 CREDIT 1.0 Level 2

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 to 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 III (H)

10733-10734 CREDIT 1.0 Level 3 Completer (L3C) State Testing Required

Prerequisite: Welding Technology II

This course is a continuation of Welding II. This course provides advanced welding students the ability to augment and further their skills and knowledge levels. All student activities are designed to prepare the students' skill levels to achieve the American Welding Society certification and/or American Society of Mechanical Engineering welding certification. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.

WELDING TECHNOLOGY III LAB

10743-10744 CREDIT 1.0 Level 3

Prerequisite: Concurrent enrollment in Welding Technology III

This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies to 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 Careers (Emergency Medical Technician & Community Health Science)

Year 1 Course: Health Science I Year 2 Course: Emergency Medical Services & Medical Terminology Year 3 Course: Community Health Science & Health Professions Lab Year 4 Course: EMT & EMT Lab	**Applicable TMCC College Credits** CE 201 – Workplace Readiness (3 credits) EMS 101 – CPR and First Aid (1 credit) EMS 108 – Emergency Medical Technician Training (6credits – must earn National Registry EMT certificationfor EMS 108 credit) **Degree Pathway**: Associate of Applied Science Degree(Fire, Technology, Fire Suppression Emphasis) **Skills Certificate**: Emergency Medical Technician (EMT) **Skills Certificate**: EMT Instructor Training **Related Occupations 2024 Median Annual Pay** • EMT: $37,650 (associate's) • Diagnostic Imaging Worker: $71,500 (associate's) • Athletic Trainer: $75,810 (bachelor's) • Occupational Therapist: $97,616 (master's) • Physician Assistant: $127,392 (master's) • Pharmacist: $124,170 (doctorate) • Dentist: $258,316 (doctorate) • Physician / Surgeon: $246,152+ (doctorate)	**Potential Savings @ $98.75/credit (before books & materials)** $988

COMMUNITY HEALTH SCIENCE (H)

10543-10544 CREDIT 1.0 Level 3 Completer (L3C) State Testing Required

Prerequisite: Health Science II or Medical Terminology

This course is designed to provide students with the knowledge and skills required for entry into the healthcare field. The course is designed to provide students with knowledge and skills required for entry into the healthcare field area of study that includes personal health, public health biology, social and behavioral health, environmental health, epidemiology, biostatistics, social justice, communities and career development. Theappropriate 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 SERVICES (H)

**Satisfies Health Requirement*

10533-10534 CREDIT 1.0 Level 2

Prerequisite: Health Science I

This course is a continuation of Health Science I. This entry-level course is designed for the student interested in a career in the pre-hospital emergency medical provider field. Areas of study include personal safety, patient transport (moving and lifting), basic first aid to include medical and trauma emergencies, and CPR. The appropriate use of technology and industry-standard equipment is an integral part of this course.

EMERGENCY MEDICAL TECHNICIAN (H)

10535-10536 CREDIT 1.0 Level 3 Completer (L3C) State Testing Required

Prerequisite: Health Science II or Emergency Medical Services

This course is a continuation of Health Science II or Emergency Medical Services. This course is designed for the student interested in a careerin 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

10539-10540 CREDIT 1.0 Level 3

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 appliesthe 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 SCIENCE I

**Satisfies the Health requirement*

10513-10514 CREDIT 1.0 Level 1

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.

HEALTH PROFESSIONS (H)

10509-10510 CREDIT 1.0 Level 3

Prerequisite: None

This course is designed to assist students in exploration of a range of health occupations to determine field best suits their interests, strengths, and abilities. Areas of study include infectious diseases, genetics, medical ethics, nutrition, psychology, pediatrics, gerontology, health education, anatomy/physiology and communication for medical professionals. Students will be exposed to traditional clinical settings, as well asnon-clinical settings such as nutrition, health inspection, communicable diseases, counseling, and alternative medicine. The appropriate use of technology and industry-standard equipment is an integral part of this course.

HEALTH PROFESSIONS LAB

10511-10512 CREDIT 1.0 Level 3

Prerequisite: Concurrent enrollment in Health Professions

This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that appliesthe 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 TERMINOLOGY (H)

10523-10524 CREDIT 1.0 Level 2

Prerequisite: Health Science I

This course is designed to introduce students to the vocabulary, knowledge, and skills required for entry into health-related occupations. Students receive instruction in the vocabulary of human anatomy and physiology, basic health care skills, first aid, cardiopulmonary resuscitation (CPR), and healthcare practices. Students' medical, ethical, and legal responsibilities pertaining to future careers in the health field will be integrated into the course. Students will also be introduced to health-related occupational skills required in the world of work.

Law, Public Safety, Corrections and Security

Year 1 Course: Health Science I Year 2 Course: Fire Science 1 & EMR Year 3 Course: Fire Science 2 Year 4 Course: Fire Science Advanced Studies & EMT	**Applicable TMCC College Credits** Fire Science 1 Fire Science 2 **Degree Pathway**: Associate of Applied Science Degree (Fire, Technology, Fire Suppression Emphasis) **Skills Certificate**: EMT Instructor Training Emergency Medical Technician (EMT) Fire Science 1 & Fire Science 2 NWCG S-130 Wildland Fire **Related Occupations 2024 Median Annual Pay** • EMT: $37,650 (associate's) • Diagnostic Imaging Worker: $71,500 (associate's) • Athletic Trainer: $75,810 (bachelor's) • Occupational Therapist: $97,616 (master's) • Physician Assistant: $127,392 (master's) • Pharmacist: $124,170 (doctorate) • Dentist: $258,316 (doctorate) • Physician / Surgeon: $246,152+ (doctorate) • Structural Fire Fighter: $54, 004 • Wildland Fire Fighter: $45,094	**Potential Savings @ $98.75/credit (before books & materials)** $988

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.

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.

Natural Resources & Animal Sciences (Ornamental Horticulture/Greenhouse Management)

Year 1 Course: Agriculture Science I Year 2 Course: Plant Science & Ornamental Horticulture Year 3 Course: Greenhouse Management &Greenhouse Management	**Applicable TMCC College Credits** BIOL 202 – General Botany (4 credits) **Degree Pathway**: Associate of Science (Biology Emphasis) **Related Occupations 2024 Annual Median Pay** • Floral Designer: $31,133 (HS diploma) • Agricultural & Food Science Technician: $43,463 (associate's) • Landscape Architect: $67,931 (bachelor's)	**Potential Savings@ $98.75/credit (before books & materials)** $395

AGRICULTURE SCIENCE I

10103-10104 Credit 1.0 Level 1 District Common Semester Final

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, leadershipand communication through FFA, and career skills. An essential part of this course will be leadership activities and Supervised Agriculture Experience Programs.

GREENHOUSE MANAGEMENT (H)

10119-10120 CREDIT 1.0 Level 3 Completer (L3C) State Testing Required

Prerequisite: Plant Science and Ornamental Horticulture

This course is a continuation of Ornamental Horticulture. This course provides advanced agriculture students a technical understanding and working knowledge of the greenhouse industry. Topics include safety, plant physiology, growing media, plant nutrition, integrated pest management, propagation, growing greenhouse crops and greenhouse business concepts. Students will gain knowledge and skills related to the care and management of gardens and greenhouses. An essential part of this course will be leadership activities and Supervised Agriculture Experience Programs. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.

GREENHOUSE ADVANCED STUDIES

10247-10248 CREDIT 1.0 Level 3 AS

Prerequisite: Greenhouse Management

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.

PLANT SCIENCE AND ORNAMENTAL HORTICULTURE (H)

10109-10110 CREDIT 1.0 Level 2

Prerequisite: Agriculture Science I or Horticulture Science

This course is a continuation of Agriculture Science I or Horticulture Science. This course is designed to introduce the intermediate agriculture student to the skills and knowledge needed in order to successfully grow and care for plants. Areas emphasized include: plant anatomy and physiology, plant identification, propagation, growing media, nutrition, and plant technologies. An essential part of this course will be leadershipactivities and Supervised Agriculture Experience Programs. The appropriate use of technology and industry-standard equipment is an integral part of this course.

Natural Resources & Animal Sciences (Veterinary Science)

Year 1 Course: Agriculture Science I Year 2 Course: Agriculture Science II Year 3 Course: Veterinary Science	**Applicable TMCC College Credits** BIOL 202 – General Botany (4 credits) **Degree Pathway**: Associate of Applied Science (Veterinary Technology) **Related Occupations 2024 Annual Median Pay** • Veterinary Assistant: $44,244 (HS diploma) • Veterinary Technologist: $70,723 (associate's) • Veterinarian: $128,192 (doctorate)	**Potential Savings @ $98.75/credit (before books & materials)** $395

AGRICULTURE SCIENCE I

10103-10104 Credit 1.0 Level 1 District Common Semester Final

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, leadershipandcommunication through FFA, and career skills. An essential part of this course will be leadership activities and Supervised Agriculture Experience Programs.

AGRICULTURE SCIENCE II (H)

10105-10106 CREDIT 1.0 Level 2 District Common Semester Final

Prerequisite: Agriculture Science I

This course is a continuation of Agriculture Science I. This course allows intermediate students to expand on skills and knowledge from Agriculture Science I. Areas of study include scientific investigations in agriculture, plant and soil sciences, agriculture sales and marketing, ornamental horticulture, animal sciences and natural resource management. An essential part

of this course will be leadership activities andSupervised Agriculture Experience Programs. The appropriate use of technology and industry-standard equipment is an integral part of thiscourse.

VETERINARY SCIENCE (H)

10111-10112 CREDIT 1.0 Level 3 Completer (L3C) State Testing Required

Prerequisite: Agriculture Science II

This course is a continuation of Agriculture Science II. This course is designed to introduce advanced agriculture students to the technical understanding and working knowledge of the veterinary industry. Topics to be covered include practices in the veterinary clinical setting, medical terminology, medical math, clinical examination, laboratory techniques, diseases and disorders, nutrition, clinical and office procedures, and ethical and welfare issues. An essential part of this course will be leadership activities and Supervised Agriculture Experience Programs. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education.