

The future belongs to those
who believe in the beauty
of their dreams.

— Eleanor Roosevelt

OVERLAND & PRAIRIE

Course Registration Guide

2021-2022



Overland High School

AND THE INSTITUTE OF
SCIENCE AND TECHNOLOGY

12400 East Jewell Avenue | Aurora, CO 80012 | 720.747.3700 | overland.cherrycreekschools.org



January 6, 2021

Dear Students and Parents,

The Overland – Prairie community is committed to providing innovative educational opportunities, promoting academic excellence, and empowering our students to become leaders in our local, national, and global society. To fulfill this commitment, the Overland-Prairie Campus and the Cherry Creek School District will continue to offer educational opportunities featuring a creative focus in the areas of Science, Technology, Engineering, and Math with a strong Liberal Arts foundation. Our goal is to create a seamless transition and to become a premier, comprehensive 6-12 campus in Colorado where our students meet or exceed state standards in Math, Reading, and English.

Together, Overland High School and Prairie Middle School offer a wide range of course selections for our students. The courses a student selects in middle and high school can significantly impact his or her options for the future. According to College Board: Parents and students should understand the advantages of Honors, Advanced Placement (AP), and Concurrent Enrollment (CE) courses, "Studies have shown that the rigor of a student's high school curriculum is the single best predictor of success in college." This course book is designed to assist in that effort by providing you with a brief description of each course and content sequencing offered at both Prairie and Overland.

As we begin the registration process for next school year, we encourage you to take time to do the following:

Use our websites For Overland High School use <http://overland.cherrycreekschools.org> and for Prairie Middle School use <http://prairie.cherrycreekschools.org> as a useful tool to provide access to more detailed information about each department and its course offerings. Please contact our Counseling department if you have any questions. **For 8th-12th grade families**, explore the Naviance website <http://www.naviance.com>. This website states, "Academic success is about getting from point A to point B—turning potential into achievement, goals into accomplishments. It requires a plan—a road map that clearly guides each step toward a student's desired destination." Use your CCSD PowerSchool user name and student I.D. number as your password for your account.

Seek additional information About specific courses from your teachers, counselor, or the department coordinators.

In spite of the obstacles overcome in the previous school year, we forged the way providing education to students in the Hybrid Learning and Remote Learning models. Our students have faced insurmountable challenges and have still managed to thrive this past year. We are eager to turn the page and return to full in-person learning allowing us to teach our students 5 days a week in person. We are embarking on a momentous time for the Overland community and our school district. We would like to recognize our staff, students, parents, and community members, as we continue on this academic journey together on the Overland-Prairie STEM Campus.

Sincerely,

Aleshia Armour
Principal
Overland High School

John Contreras
Principal
Prairie Middle School

The Overland-Prairie Campus

Registration guide

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INTRODUCTION TO THE OVERLAND ZONE: A 6-12 CAMPUS OF ACADEMIC EXCELLENCE

The Overland-Prairie community is committed to providing innovative educational opportunities, promoting academic excellence, and empowering our students to become leaders in our local, national, and global society.

PRAIRIE MIDDLE SCHOOL

At Prairie Middle School, we begin with our mission statement to guide our beliefs and values. We believe that every student who comes to Prairie will grow in his or her knowledge and skills to achieve academic excellence. In order to fulfill this belief, we must offer engaging and rigorous curriculum offerings that will prepare our students for their future academic endeavors. The Prairie community also believes that it is our responsibility to prepare our students to become active members of our school, neighborhoods, and society. We believe that our students are the hope for our future and must learn the habits of citizenship, partnership, and leadership.

In shaping a successful learning community Prairie has implemented a Positive Behavior Intervention Support (PBIS) system. This is a school-wide strategy for helping all students achieve important social and learning goals. Our PBIS Mission Statement is:

To keep our community **Safe**, through **Ownership** of our words and actions, focus on **Achievement**, growth of adults and students, and building **Relationships** throughout the Prairie Community.

- **Safety:** Be where you're expected to be. Report any concerns about the safety of yourself or others.
- **Ownership:** Take responsibility for your words and actions. Grow from your mistakes.
- **Achievement:** Be at school to attend classes and learn. Dress for success.
- **Relationships:** Use respectful language and actions with all members of the community. Be kind.

OVERLAND HIGH SCHOOL

"Blazer Great. Blazer Proud. Blazer Excellent." The faculty and staff at Overland High School have made this mantra an unwavering expectation. As an educational community, Overland is accredited by the North Central Association of Secondary Schools and Colleges and the Colorado State Department of Education. Overland High School was listed as one of *Newsweek's* America's Top High Schools for 2013, and *The Washington Post's* America's most challenging high school for 2013.

With the goal of preparing students for the demands of this new millennium, Overland offers Advanced Placement courses and Concurrent Enrollment courses in the areas of English, Social Studies, Mathematics, Science, Visual Arts, Business, World Languages, and Technology. Successful completion of these offerings will meet both college-level credit and high school graduation requirements. Some courses are designed to lead to certifications in a content area, allowing students to receive one of three diplomas: our Cherry Creek School District Diploma, our Institute of Science and Technology Diploma, or our Achievement Diploma.

If a student selects to pursue the Institute of Science and Technology (IST) Diploma, he or she will have the opportunity to select from the following four Career Concentrations: Arts & Technical Communications, Computer Science & Applied Mathematics, Engineering & Technical Sciences, and Health Sciences. For more information about the three diplomas offered on the Overland campus, please review pages 4-7.



The courses a student selects in high school can significantly impact his or her options for the future. It is our goal to help our students make informed and knowledgeable decisions regarding their high school programming. We encourage students to take the most rigorous courses available to ensure college success and workforce readiness. By creating an environment of rigor and academic excellence, our students will strive to be "Blazer Great. Blazer Strong. Blazer Excellent."

Registration Procedures for the 2020-2021 school year

This course guide contains the requirements you must meet to register for classes at both Prairie Middle School and Overland High School. It contains descriptions of all the courses that will be offered, and specifics on which courses will be available for the 2020-2021 school year. First, study the graduation requirements, college entrance requirements, Advanced Placement and Concurrent Enrollment Program information, and the recommended courses for both Prairie and/or Overland, depending on the grade level of your child. Then, review the course offerings and plan your own course of study. Your choice of courses should be based on graduation requirements, teacher recommendations, your interests and abilities, past achievements, and your post high school plans. When selecting courses, you will notice some have letters or symbols which indicate the following:

(W) indicates weighted course credit

IST refers to STEM classes

CE with  or  designates approved concurrent enrollment courses

It is important to note that some of the elective courses listed in this guide may not be offered if the number of students requesting the courses is insufficient. We ask that each student select alternate elective choices in case your first choice cannot be offered. Please think carefully about your course selections for next year. Talk to your teachers and counselor if you need advice. Counselors, Faculty, and Administration are available to offer assistance in your decision-making process.

FOLLOW THESE STEPS TO REGISTER:

1. Refer to pages 3 - 7 for information pertaining to all graduation requirements and degree options.
2. Each student will receive a Registration Guide for family consultation and will have access to a course description and registration guide online.
3. Each student must complete registration through PowerSchool for the 2020-2021 school year. Students at Overland will complete a computer registration process to input course requests in January/February. Students at Prairie will meet with counselors and complete registration in January/February.
4. Ninth graders must enroll in a minimum of 7 and 1/2 credits, plus Blazer 101. Tenth graders must enroll in a minimum of 7.0 credits. Eleventh graders must enroll in a minimum of 6.0 credits. Twelfth graders must enroll in a minimum of 5.5 credits. All students are required to take four core classes each semester. Overland High School will develop a master schedule of courses based upon pre-registration requests.
5. Please review the CCIC Course Guide located in the back of this guide.
6. It is expected that students will take the courses they request. Choose your courses and alternate courses carefully as schedule change opportunities are **very limited**.

In 2016, new graduation requirements for the class of 2021 were modified across the State of Colorado, in every school district, to include the Cherry Creek Schools. ***Cherry Creek School District has decided for the class of 2021 (this year's seniors) that students must meet only the required number of credits (outlined in box #1).***

For graduating classes beyond 2021, we anticipate that the required number of credits and the menu options outlined (demonstration of college and career readiness) will be re-implemented unless otherwise directed from the Colorado State Board of Education.

Minimum Credits

1 Course Requirements for Graduation in Cherry Creek

Board Policy IKF

A minimum of 22 units of credit shall be necessary for high school graduation.

- English: 4.0 units
- Mathematics: 3.0 units
- Science: 3.0 units
- Social Studies: 3.0 units
- Physical Education: 2.0 units
- Fine Arts or CTE: 1.5 units
- Elective Offerings: 5.5 units

3 Skills Necessary for Success in College and Career

The following skills are critical to success in College and Career.

- Innovation
- Critical thinking skills
- Real world experiences
- Problem solving
- Curiosity / Inquiry
- Relevancy
- Working in teams
- Communication skills
- Project based learning
- Flexibility / Adaptability

Competency Menu

2 College and Career Ready Demonstration Requirement for Graduation in Cherry Creek and all Other Colorado Schools.

Regulation IKF-E

In addition to required coursework, all students must demonstrate competency in Math and English through one area below.

	English Lang. Arts	Mathematics
Next Generation Accuplacer	241 on Reading OR 236 on Writing	255 on Arithmetic (AR) OR 230 on Quantitative Reasoning, Algebra and Statistics (QAS)
Classic Accuplacer	62 Reading Comprehension OR 70 Sentence Skills	61 on Elementary Algebra
ACT	18	19
ACT WorkKeys	Bronze or higher	Bronze or higher
Advanced Placement	2	2
ASVAB (AFQT score)	31 st percentile	31 st percentile
Concurrent Enrollment	Passing Grade	Passing Grade
International Baccalaureate	4	4
SAT	470	500
District Capstone	Secondary Literacy Assessment	Portfolio of Skills Exams
Industry Certificate	District Determined	District Determined

Graduation Requirements/Achievement Recognitions

The Overland–Prairie Campus is committed to “*Blazer Great. Blazer Proud. Blazer Excellence.*” As part of this commitment, we offer three (3) levels of additional diploma & achievement recognition for students to earn during their time on our campus. The minimum total requirements are the CCSD graduation requirements of 22 credits and the proficiency standards as well as Colorado Department of Education requirements. Students may participate in an Overland High School graduation ceremony only when **all** of the Cherry Creek Graduation Requirements have been completed. Students who must attend summer school to complete **all** of their graduation requirements are eligible to participate in a summer commencement held in August.

The Cherry Creek School District strongly encourages students to participate in a rigorous academic core curriculum. Overland High School recognizes this District commitment in our Achievement Diploma (see page 7), which asks students to complete 4 credits in each of the four “core” areas of education: English, Mathematics, Science and Social Studies and 2 credits or more of World Language.

Overland High School requires all freshmen, sophomores, and juniors enroll in a minimum of four (4) core credits each year. Seniors must enroll in a minimum of 4 core credits or a minimum of three (3) AP courses. In addition, Overland recognizes World Languages as a part of the Academic Core and strongly recommends that students complete, at a minimum and based on university requirements, level 2 or 3 of a world language. Any consideration of a waiver of these expectations will be approved on an individual basis by the principal or administrative designee. Academic Waiver requirements must be submitted.

Diplomas and Recognition

Overland High School Diploma: Cherry Creek School District Graduation Requirements

The following describes the minimum requirements needed for a standard Cherry Creek School District High School Diploma.

- 4 credits of English
- 3 credits of Mathematics
- 3 credits of Science
- 3 credits of Social Studies (must include 1 credit of U.S. History and .5 credits of Government).
- 1.5 credits of Physical Education
- .5 credits of Health
- 1.5 credits of Practical and Fine Arts Electives
- 5.5 credits of Electives (Including World Languages)

Institute of Science and Technology (IST) Diploma Colorado School of Mines Guaranteed Admission:

Criteria for IST Diploma:

- Overland Distinguished status
- Completed career concentration
- Completion of School of Mines guaranteed admissions requirements:
 - Average (unweighted) G.P.A. 3.8/4.0
 - Top 1/3 class rank
 - ACT Composite 29 (minimum 28 math, 28 science)
 - SAT 1300 (minimum 670 math)
 - Choose 1 or more from the following electives:
 - Computer Programming
 - Architectural or Engineering Drafting
 - AP Biology

- AP Chemistry
- AP English
- AP Social Studies

It is strongly recommended that students submit their application for admission to Colorado School of Mines as early as possible fall of their senior year. Applications received after November 1 of their senior year may not be considered for Guaranteed Admission.

To earn the status of IST Diploma, a student must complete the Colorado School of Mines Guaranteed Admission requirements and a chosen IST Career Concentration pathway. Students who achieve at this level will open doors to many prestigious universities across the country in addition to opportunities at the School of Mines. These students will also be considered IST Scholars. Institute of Science and Technology Diploma recipients will be recognized with a cord at graduation. **

Institute of Science and Technology Diploma Guaranteed Admission: Partnership Program High School Course Requirements, Grade Point Average, and Test Score Requirements

Partnership Program High School students who successfully meet all of the following academic requirements will be eligible for direct admission into the College of Engineering and Applied Science at CU-Boulder:

Partnership Program High School Course Requirements:

Minimum Academic Preparation Standards (MAPS)

One unit equals one year of high school study.

- English 4 units
- Mathematics 4 units
 - All four units must target preparation of the student for calculus, and must include at least through pre-calculus (students who complete calculus in high school will be better prepared)
- Natural Science 4 units
 - Includes 1 unit of physics AND 1 unit of biology or chemistry;
 - --or-- 2 units of chemistry AND 1 unit of physics or biology;
 - --or-- 2 units of biology AND 1 unit of chemistry or physics
 - (students who complete four units of science, including one year of chemistry and one year of physics, will be better prepared)
- Social Science 4 units
- Single foreign language 4 units
 - (or two years each of two different languages)
- One of more of the following (1 Unit):
 - An AP Computer Science Course
 - An AP Calculus Course
 - AP Chemistry
 - AP Biology
 - AP Physics
 - AP English
 - AP Social Studies Architectural or Engineering Design Completion of a Career Concentration
- **Total units..... 18 units**

Partnership Program Grade Point Average and Test Score Requirements:

- Cumulative Grade Point Average of at least 3.90 weighted GPA at the time of application; and (3.8/4.0 unweighted/GPA)
- TOP 1/3 of class rank
- Minimum score 670 on the Math portion of the SAT exam, or 28 on the Math portion of the ACT exam; and
- Minimum score of 600 on the Critical Reading portion of the SAT exam, or 27 on the English portion of the ACT exam

Additionally, Partnership Program High School students must have at least one recommendation letter from a math, science, or engineering (preferred) teacher from their junior or senior year.

For guaranteed admission, Partnership Program High School students must apply by the application deadline and satisfy other sections of the admission application. As previously mentioned, for guaranteed admission, students must maintain consistent or improving grades through their senior year, while maintaining the academic rigor of junior and senior year classes. Students who are guaranteed admission may be placed in special academic support programs at CU-Boulder. **

Additional Considerations

Students from partnership schools who do not meet the above criteria will not be guaranteed admission to the College of Engineering and Applied Science at CU-Boulder; however, such students will be considered for admission on an individual basis. In some cases, CU-Boulder may offer admission to the Engineering GoldShirt Program, the Pre-Engineering Program, or the College of Arts and Sciences as an alternate college option.

CU-Boulder prides itself in a holistic review of all applications, so mandatory essays will give the applicant an opportunity to inform the University of any extenuating circumstances that may have temporarily affected the student's ability to perform in high school.

*****Criteria may adjust based on the School of Mines and CU Boulder entry requirements. We encourage students to meet regularly with their school counselor to ensure completion of requirements for guaranteed admission.***

Distinguished Achievement Program Recognition

Distinguished Achievement Scholar Status will be conferred after seven semesters in January of the senior year and achievers will be recognized at Graduation.

Criteria for Distinguished Achievement Scholar Status:

- met all criteria to receive Overland's Achievement Diploma
- demonstrated academic scholarship in at least three AP courses
- achieved a cumulative unweighted GPA of 3.75 or above by the end of seven semesters
- demonstrated evidence of 100 hours of community service
- demonstrated evidence of school involvement in the arts, in student activities, or in athletics
- demonstrated good citizenship (no major violations within school policy)

IST Scholar

The Institute of Science & Technology at the Overland-Prairie Campus offers four different career concentrations with multiple pathways in each. These concentrations include *Computer Science & Applied Mathematics*, *Health Sciences*, *Natural Resources & Energy*, *Engineering & Technical Sciences* and *Arts & Technical Communications*.

Criteria for Concentration Completion:

- meet with counselor to discuss career pathway
- sign up on Naviance
- complete a four-year plan (ICAP) using the proposed plan of study
- complete an internship during junior or senior year

To achieve the status of IST Scholar, a student must complete the chosen IST Career Concentration Pathway, including the Senior Project/Internship courses with a minimum 3.0 unweighted GPA. These students will be recognized with a cord at graduation. Freshmen who meet the criteria may apply to be an IST Scholar at the end of their 9th grade year.

Achievement Diploma

The purpose of this diploma is to recognize students who demonstrate levels of performance which allow a greater opportunity in post-secondary choices.

Criteria for Achievement Diploma:

- average (unweighted) G.P.A. of 3.0
- ACT composite score of 21
- SAT minimum score of 1060
- 24.5 total credit requirement - consisting of:
 - ❖ 4 credits of English (AP or Concurrent Enrollment courses in 11th and 12th grades)
 - ❖ 4 credits of Mathematics (Algebra 1, Geometry, Algebra 2, Pre-Calculus/Trigonometry)
 - ❖ 4 credits of Science (Biology, Chemistry, Physics and Advanced Science)
 - ❖ 4 credits of Social Studies (U.S. History, World History, Government, AP Psychology)
 - ❖ 2 credits or more of World Language (Completion of level 3 in a World Language is required for admission to most University programs.)

Students who successfully complete these diplomas and achievement recognitions will be specifically recognized at graduation.

Individual Career and Academic Plans (ICAPs)

Every Overland student will build their ICAP throughout their time in high school.

ICAP is an individualized plan that is developed by students and their parents or guardians, in collaboration with school counselors and educators. The ICAP will help students:

- establish personalized academic and career goals
- explore postsecondary career and educational opportunities
- align course work and curriculum
- apply to postsecondary institutions
- secure financial aid, and ultimately
- enter the workforce or school
- Come up with the most effective method to satisfy Colorado 2021 requirements

ICAP Quality Indicators

The following are areas that students should explore, experience and use to apply their knowledge, skills, aptitudes, abilities and awareness to be career and college ready.

Self-Awareness - Understand how unique interests, talents and aspirations play a role in decision-making and interpersonal relationships and how individual thoughts and feelings get students excited about life and learning.

Career Awareness - Know the difference between jobs, occupations and careers. Articulate a wide range local, regional, national and global career pathways and opportunities. Consider economic and cultural influences and the impact of stereotypes on career choice.

Postsecondary Aspirations - Participate in career exploration activities centered on students' passions, interests, dreams and visions of their future self and perceived options.

Postsecondary Options - Be aware of, and participate in, a variety of postsecondary and career opportunities. Use tools such as career clusters, personality assessments and learning style inventories to highlight individual strengths and capabilities.

Environmental Expectations - Consider how school, family, community, culture and world view might influence the students' career development and postsecondary plans.

Academic Planning - Apply the skills and knowledge necessary to map out and pass the academic courses required to achieve postsecondary goals.

Employability Skills - Define, develop and hone skills that increase the likelihood of becoming and remaining successfully employed and civically responsible citizens.

Personal Financial Literacy – To have an awareness of and be able to articulate the cost of postsecondary options and apply this awareness to their postsecondary career and academic planning process.

Although many of the ICAP indicators will be tracked by your student's counselor, your student will have the opportunity to build their ICAP portfolio in a number of classes throughout high school.
Please see the student's counselor for more information.

NCAA Eligibility Center-Quick Reference Sheet

Information for Prospective College Athletes

(Source: NCAA Eligibility Center Website – <https://web3.ncaa.org/ecwr3>)

Register with NCAA eligibility center, <https://web3.ncaa.org/ecwr3>, during your sophomore year.

DIVISION I Core-Course Requirement (16)

- 4** years of English
- 3** years of Math (Algebra 1 or higher)
- 2** years of Natural/Physical Science (1 year of lab if offered)
- 1** year of additional English, Math or Natural/ Physical Science
- 2** years of Social Science
- 4** years of additional courses (any area above, foreign language or comparative religion/philosophy)

DIVISION II Core-Course Requirement (16)

- 3** years of English
- 2** years of Math (Algebra 1 or higher)
- 2** years of Natural/Physical Science (1 year of lab if offered)
- 3** years of additional English, Math or Natural/ Physical Science
- 2** years of Social Science
- 4** years of additional courses (any area above, foreign language or comparative religion/philosophy)

NCAA calculates GPA based only on the above mentioned NCAA-Approved core courses. Sliding Scale- Division I and II use a sliding score that takes both your GPA and ACT/SAT scores into account to determine eligibility. If you have a low GPA, you need high test scores. If you have low test scores, you need to have a high GPA.

Test Scores

You may take ACT or SAT multiple times prior to college but be sure you list NCAA Eligibility Center as a score recipient when you take a test (Code:9999). NCAA Eligibility Center will only accept scores from SAT or ACT but not your school transcript.

Division I

- 1) Complete 16 NCAA eligible Core Courses
- 2) Earn at least 2.3 GPA in your Core Courses
- 3) Earn ACT sum score or SAT combined score that hits Division I on the GPA sliding Scale.

Division II

- 1) Complete 16 NCAA eligible Core Courses
- 2) Earn at least a 2.2 GPA
- 3) Earn ACT sum score or SAT combined score that hits Division II on the GPA sliding Scale.

Division III

Division III does not offer athletic scholarships- 75% of Division III students- athletes receive some form of merit or financial assistance. If you're planning on attending a Division III, you do not need to register with NCAA Eligibility Center. Division III schools set their own academic admission expectations.

See Mr. Sewell in the Post-Grad Center in the IST for more details or information regarding the eligibility center!

Institute of Science and Technology

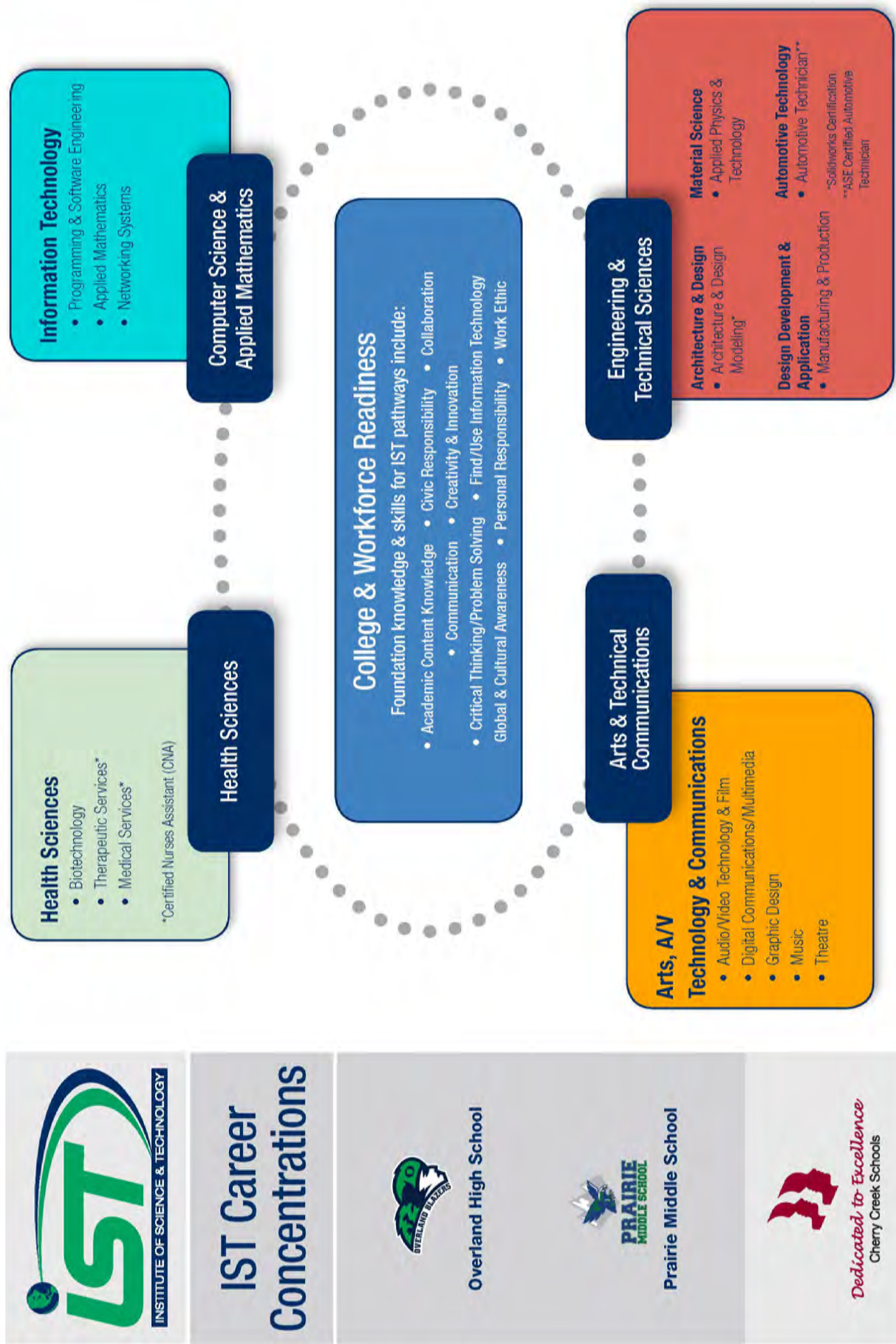
STEAM (Science, Technology, Engineering, Arts, and Mathematics) Programming

At Overland, STEAM programming provides students with all of the advantages of attending a four-year comprehensive high school while specializing in a selection of courses in specific career interests. These courses, or career concentrations, provide students with a minimum of four credits during their four years in high school that include exploration of careers, industry standards, and in some cases, advanced standing in college.

All students are eligible to participate in STEAM courses. Students may select one or two elective courses as part of their graduation requirements or complete an entire career concentration. Eligibility to participate in a course is determined by the completion of course prerequisite requirements.

In addition to STEAM courses, Overland offers several different STEAM clubs and honor societies. Each club is directly related to a career pathway. Students who maintain a 3.0 GPA in their chosen career concentration, qualify for our ICAP Scholars Honor Society. ICAP Scholars work together to design STEAM Symposiums for high school, middle school, and elementary school students. ICAP Scholars also receive special recognition at graduation. Those students who meet the additional criteria as IST Diploma Candidates qualify for guaranteed admission to the Colorado School of Mines and are also recognized at graduation.

Institute of Science & Technology



CAREER CONCENTRATIONS

Pathway	9th Grade	10th Grade	11th Grade	12th Grade
Engineering & Technical Sciences				
Engineering	Technology Projects Computer Aided Design ■▲	Computer Aided Design Engineering Design ■▲	Engineering Design ■▲ Architectural Drawing	Senior Project ★
Robotics	Technology Projects	Robotics	Robotics and Electromechanical Design	Senior Project ★
Automotive Technology	Consumer Automotive	Automotive Tech 1 ▲ Automotive Tech 2 ■▲	Automotive Tech 2 ■▲ Automotive Tech 3 ■▲	Senior Project ★
Arts & Technical Communications				
AV Broadcasting/Film	Video Production 1 (sem) Filmmaking (sem)	Broadcast Journalism "OTV"	Advanced Video Production	Senior Project ★
3D Graphics & Design	Web Design 1 (sem) Web Design 2 (sem) ■	Graphic Design 1 (sem) Graphic Design 2 (sem)	AP Studio Art 2D ● AP Studio Art 3D ●	Senior Project ★
Performing Arts *	Performing Ensemble Piano/Technical Theatre	Sec. Performing Ensemble Visual Art or Design	Sec. Performing Ensemble AP Music Theory Visual Art or Design	Performance or Technical Theatre Proficiency Benchmark Senior Project ★
Health Sciences				
Health Sciences	Exploring Health Sciences	Principles of Health Science ▲	Advanced Health Science	Nurse Aide Certification Course ▲
Biotechnology	Intro to Science Research	Applied Science Research Forensics	Biotechnology ■	Senior Project ★ Anatomy & Physiology ■
Computer Science & Applied Mathematics				
Computer Science Pathways	Technology Projects	AP Comp Science Principles ●	AP Computer Science A ●	App Development (sem) Algorithms & Data Structures (sem)
	AP Comp Science Principles ●	AP Computer Science A ●	App Development (sem) Algorithms & Data Structures (sem)	Senior Project ★
Applied Mathematics	AP Comp Science Principles ●	AP Computer Science A ●	AP Calculus AB ● AP Calculus BC ●	AP Stats ●, Calc 3/Diff Eq ■, Linear Alg, Senior Project ★

◆ Partnership with Metro State University | ■ Concurrent Enrollment course | ▲ Certificate course | ● AP course | ★ Student-Designed course

★ In addition to Primary Emphasis coursework in Instrumental Music, Vocal Music, or Theatre Arts and a yearly Extracurricular Performing Arts Activity.

Students also have the option of creating their own career pathways with coordinator and counselor approval.

updated January 7, 2020

PRAIRIE MIDDLE SCHOOL ADVANCED COURSES

Students are eligible for advanced course work based on teachers' recommendations, assessment results, and student initiative. These classes are designed to prepare students for AP and STEM course work at Overland High School that will create an opportunity for college credit. Students will have options to take IST Career Concentration focused courses through electives, ACCESS, and after school club activities

Grade Points

A = 100-90

B = 89-80

C = 79-70

D = 69-60

F = 59 and below

<u>Language Arts</u> Honors 6 Honors 7 Honors 8	<u>Mathematics</u> Math 6-7 (6) Math 7-8 (7) Algebra 1 (7/8)	<u>Arts</u> Prairie Jazz Hawks Chamber Orchestra Prairie Voices
<u>World Languages</u> Arabic Chinese Spanish 2	<u>Technology</u> Prairie News Network	

OVERLAND HIGH SCHOOL ADVANCED COURSES

Advanced placement classes are offered in the English, Social Studies, Mathematics, Science, Visual Arts, Performing Arts, Technology, and World Language Departments. These classes are the equivalent of freshman college courses and if the advanced placement exam scores are appropriate, courses will be awarded college credit.

The Cherry Creek School District offers students and parents the opportunity for a transcript that reflects a weighted grade point average and an unweighted grade point average. Weighted grades are given in those courses designated as either honors, accelerated or advanced placement. The difference between weighted and unweighted grades in terms of grade point value is as follows:

Unweighted and Weighted Grades

Unweighted Grade Points	Weighted Grade Points
A = 4 grade points	A = 5 grade points
B = 3 grade points	B = 4 grade points
C = 2 grade points	C = 3 grade points
D = 1 grade point	D = 1 grade point
F = 0 grade points	F = 0 grade points

Please Note: Eligibility for Athletics and Activities is based on unweighted grades.

The following courses are weighted:

<p style="text-align: center;"><u>English</u></p> <p>English 9 Honors English 10 Honors AP Language & Composition AP Literature & Composition</p>	<p style="text-align: center;"><u>Social Studies</u></p> <p>AP Human Geography AP World History AP U.S. History AP Psychology AP U.S. Government & Politics AP Art History</p>	<p style="text-align: center;"><u>Mathematics</u></p> <p>Geometry Honors Algebra 2 Honors AP Statistics AP Calculus AB AP Calculus BC</p>
<p style="text-align: center;"><u>Science</u></p> <p>Biology Honors Chemistry Honors AP Environmental Science AP Biology AP Chemistry AP Physics 1 AP Physics 2 AP Physics C</p>	<p style="text-align: center;"><u>Visual Arts</u></p> <p>AP Studio Art- Drawing AP Studio Art- 2D AP Studio Art- 3D AP Art History</p> <p style="text-align: center;"><u>Performing Arts</u></p> <p>AP Music Theory</p> <p style="text-align: center;"><u>Technology</u></p> <p>AP Computer Science Principles AP Computer Science A</p>	<p style="text-align: center;"><u>World Languages</u></p> <p>Arabic 4 Honors Chinese 4 Honors French 4 Honors Spanish 4 Honors AP Chinese Language & Culture AP French Language & Culture AP Spanish Language & Culture AP Spanish Literature & Culture</p> <p style="text-align: center;"><u>Business</u></p> <p>AP Macro/Microeconomics</p>

*Students who take AP courses are required to take the corresponding AP exam. Requests for exemption to this policy must be reviewed by the AP Coordinator. AP exams cost approximately \$94.00 per exam and there are late fees associated with each late exam registration. Financial assistance is available.

Overland High School Concurrent Enrollment Courses

Overland campus offers numerous Concurrent Enrollment credit courses in the Cherry Creek School District. Educators who are endorsed in both college and 6-12 academic institutions teach concurrent enrollment courses. Upon approval and successful completion, students will receive college-level credit and meet high school graduation requirements. Some courses are designed to lead to certifications in a content area. In partnership with our greater community, we are an extended campus of the Community College of Aurora and Arapahoe Community College.

Concurrent Enrollment Courses Offered:

<p>English English Composition 121 English Composition 122 Introduction to Literature 115</p> <p>Math Math for the Liberal Arts Intro to College Algebra College Algebra College Trigonometry Calculus 3/Differential Equations</p> <p>Science Physical Geology</p> <p>Social Studies U.S. History 101 & 102 American Government Political Science</p>	<p>Business Computer Applications Intro. to Business Marketing 2 Business Law 1</p> <p>Electives Computer Aided Design Engineering Drawing and Design Automotive Technology 2 Automotive Technology 3 Intro. to Computer Programming 1 Introduction to Criminal Justice Criminal Justice: Crime Science</p>
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****Concurrent Enrollment college credit is subject to course and teacher approval and completion of all required registration steps by the majority of the class within the designated semester deadline. Courses may be subject to cancellation for Concurrent Enrollment college credit due to unforeseen changes.**

WHAT ARE COLLEGES LOOKING FOR?

According to the [State of College Admission Report 2018](#), "The top factors in the admission decision for the Fall 2017 admission cycle were: grades in all courses, grades in college prep courses, admission test scores, strength of curriculum, and essay or writing sample. Among the next most important factors were counselor recommendation, student demonstrated interest, and teacher recommendation."

Here are the top factors identified as of "considerable importance" in admitting first-time freshmen.

Factor:	Considerable Importance:
Grades in All Courses	80.9
Grades in College Prep Courses	70.8
Admission Test Scores	52.3
Strength of Curriculum	51.2
Essay or Writing Sample	16.7
Student's Demonstrated Interest	15.5
Counselor Recommendation	10.8
Class Rank	9.3
Teacher Recommendation	7.1
SAT II Scores	6.6
Portfolio	5.4
Subject Test Scores (AP, IB)	4.2
Extracurricular Activities	3.6
Interview	3.6
State Graduation Exam Scores	1.8
Work	1.8

SOURCE: NACAC Admission Trends Survey, 2017-2018.

Colleges strongly recommend the following:

Academics:

- Make sure your courses are appropriate and in logical progression. Meet with your counselor to ensure you are on the right track.
- Demonstrate academic knowledge and skills evidenced by successful completion of a rigorous high school core curriculum. (4 years of mathematics, including Algebra 2; 4 years of English; 3 or more years of science; 3 or more years of social studies/history)
- Demonstrate success in college-prep and college-level courses taken in high school that require in-depth subject-area knowledge, higher order thinking skills, and strong study and research skills.
- Demonstrate advanced academic skills, such as reasoning, problem solving, analysis, and writing abilities.
- Get to know your counselor and teachers on a more individual basis. These are the people who will be writing your recommendations.
- Keep your best work. Colleges may offer you a chance to submit supplementary material that demonstrates your achievements.
- Establish good study habits. Grades in the academic core areas (English, math, science, social studies, and foreign language) are the best predictor.
- Read! Studies have shown that one of the best preparations for the college admission tests (SAT and ACT) is to read as much as possible.

Extracurricular:

- Find activities, both in and out of school that you enjoy and that provide an outlet for your non-academic side.
- Go for quality rather than quantity. Colleges admire students who put significant effort into one or two activities rather than students who put little time into many activities.

SAMPLE COLLEGE ADMISSION CRITERIA

Admission criteria to colleges and universities vary. On a continuum of expectations and requirements, the following examples provide general indicators.

Most Selective Colleges/Universities

Examples: U.S. Air Force Academy, Stanford University, University of Pennsylvania, Northwestern University, Duke University

Minimum of 18 core units: English 4, Math 4, Social Studies 3-4,
Science 3-4, World Language 3-4
6+ Advanced Placement Courses

G.P.A. 4.0+ weighted GPA (academic courses only)

*SAT 720 Critical Reading, 730 Math, 720 Writing

**ACT 32

Very Selective Colleges/Universities

Examples: Colorado College, Colorado School of Mines, University of Puget Sound, Middlebury College, Illinois Wesleyan University, Tulane University

Minimum of 18 core units: English 4, Math 4, Social Studies 3-4,
Science 3-4, World Language 3-4
4+ Advanced Placement Courses

G.P.A. 3.7+ weighted GPA (academic courses only)

*SAT 700 Critical Reading, 650 Math, 670 Writing

**ACT 29+

Selective Colleges/Universities

Examples: University of Colorado-Boulder, University of Denver, Colorado State University, Regis University, Arizona State University

Minimum of 16 core units: English 4, Math 3-4, Social Studies 3,
Science 2-3, World Language 2-3
Advanced Placement Courses Highly Recommended

G.P.A. 3.5+

*SAT 1200+ (excluding writing score)

**ACT 25+

Competitive I Colleges

Examples: University of Northern Colorado, Colorado Christian University, University of Colorado at Colorado Springs, University of Colorado at Denver, Texas Christian University, Fort Lewis College

Minimum of 15+ core units: English 4, Math 3-4, Social Studies 3,
Science 2-3, World Language 2-3
Advanced Placement Courses Recommended

G.P.A. 3.3+

*SAT 1000+ (excluding writing score)

**ACT 23+

Competitive II Colleges

Example: Adams State University, Colorado Mesa University, Metropolitan State University of Denver, Colorado State University-Pueblo, Baker University, Western State Colorado University, Grambling State University

Minimum of 14 core units: English 4, Math 3-4, Social Studies 3,
Science 2-3, World Language 2

G.P.A. 3.0+

*SAT 900+ (excluding writing score)

**ACT 20+

**The SAT college admissions exam does have a writing component. Please check with individual institutions.*

***The ACT college admissions exam does have an optional writing component. Please check with individual institutions.*

A Definition of College Readiness

Students are “college ready” when they have the knowledge, skills, and behaviors to complete a college course of study successfully, without remediation. Indicators of college readiness include assessment data and successful coursework completion.

If students’ indicators do not meet the identified criteria, the Overland-Prairie Campus offers many interventions to help our students in meeting these criteria. These include intervention courses within the daily course offerings, summer enrichment/advancement opportunities, and tutorial support on a daily basis. *(Please contact the school for further information.)*

College Pathways and Career

6th Grade Students

ILLUMINATE Benchmark Scores:

English Language Arts – TBD
Math - TBD

Coursework Rigor

Successful completion of at least one Honors or Advanced Course

Language Arts Coursework:

Successful completion of Honors Language Arts 6

Math Coursework:

Successful completion of Math 6/7

World Languages Coursework: Successful completion of Exploratory Spanish

7th Grade Students

ILLUMINATE Benchmark Scores:

English Language Arts – TBD
Math - TBD

Coursework Rigor

Successful completion of at least one Honors or Advanced Course

Language Arts Coursework:

Successful completion of Honors Language Arts 7

Math Coursework:

Successful completion of Math 7/8

World Languages Coursework: Successful completion of Spanish 1 or Arabic 1

Resources

To help increase students’ College Readiness, Overland provides ACT and SAT prep and support through Naviance, and other resources listed below:

SAT Websites:

1. <https://collegereadiness.collegeboard.org/sat/register>
2. <https://www.khanacademy.org/sat>

8th Grade Students

ILLUMINATE – Benchmark Scores:

English Language Arts – TBD
Math – TBD

PSAT – Benchmark Scores:

Math – TBD
English Language Arts – TBD
Reading - TBD

CMAS Scores

Science – Strong OR Distinguished
Command

Coursework Rigor

Successful completion of at least one
Honors or Advanced course

Language Arts Coursework

Successful completion of Honors Language
Arts 8

Math Coursework

Successful completion of Algebra or higher

World Language Coursework

Successful completion of Spanish 2/Arabic
1/Chinese 1

Co-Curricular Participation

Participation in at least one club, sport or
community/volunteer activity

9th Grade Students

ASPIRE Benchmark Scores

English – 426
Reading – 425
Mathematics – 428
Science – 430

PSAT 9 Benchmark Scores

**Evidence- Based Reading and
Writing**- 420
Mathematics – 450

"High schools can use **Benchmarks*** as a means
of evaluating students' progress toward college
readiness so that timely interventions can be
made when necessary, or as an educational
counseling or career planning tool." – ACT.org

Coursework Rigor

Successful completion of at least one
Honors, or AP course

Math Coursework

Successful completion of Geometry or
higher

World Language Coursework

Successful completion of Level 1 or 2
coursework

Co-Curricular Participation

Participation in at least one club, sport or
community/volunteer activity

* Students who meet the Benchmark have
approximately a 50% chance of earning a B or
better and approximately a 75% chance or better
of earning a C or better in the corresponding
college course or courses by the time they
graduate high school. – ACT.org

10th Grade Students

ASPIRE Benchmark Scores

English – 428
Reading – 428
Mathematics – 432
Science – 432

PSAT 10 Benchmark Scores

Evidence- Based Reading and Writing- 430
Mathematics – 480

"High schools can use **Benchmarks*** as a means of evaluating students' progress toward college readiness so that timely interventions can be made when necessary, or as an educational counseling or career planning tool." – ACT.org

Coursework Rigor

Successful completion of at least one Honors, or AP course

Math Coursework

Successful completion of Algebra 2 or higher

World Language Coursework

Successful completion of Level 2 and/or 3 coursework

Co-Curricular Participation

Participation and/or leadership in at least one club, sport or community/volunteer activity

* Students who meet the Benchmark have approximately a 50% chance of earning a B or better and approximately a 75% chance or better of earning a C or better in the corresponding college course or courses by the time they graduate high school. – ACT.org

11th Grade Students

ACT Benchmark Scores

English – 18
Reading – 22
Mathematics – 22
Science – 23

SAT Benchmark Scores

Evidence- Based Reading and Writing- 460
Mathematics – 510

"High schools can use **Benchmarks*** as a means of evaluating students' progress toward college readiness so that timely interventions can be made when necessary, or as an educational counseling or career planning tool." – ACT.org

Coursework Rigor

Successful completion of at least **two** Dual Credit or AP courses (including minimum pass rates on applicable exams)**

Math Coursework

Successful completion of a Concurrent Enrollment or AP course

World Language Coursework

Successful completion of Level 2 and/or 3 coursework

Co-Curricular Participation

Participation and/or leadership in at least one club, sport or community/volunteer activity

* Students who meet the Benchmark have approximately a 50% chance of earning a B or better and approximately a 75% chance or better of earning a C or better in the corresponding college course or courses by the time they graduate high school. – ACT.org

7-YEAR INDIVIDUAL CAREER AND ACADEMIC PLAN (ICAP)

All students on the Overland-Prairie Campus will complete Individual Career and Academic Plans (ICAP). Students will have the ability to use the following web-based programs to help in their 6-12 academic planning. These programs include information that will prove to be helpful with planning for financial aid, scholarships, and admission requirements for college during their junior and senior year.

Naviance is the program used for 9th-12th grade. Each student will utilize a web account to plan his or her academic and college goals. A student's ICAP can help ensure completion of graduation requirements, select classes for intended career paths, and target college readiness.

PRAIRIE MIDDLE SCHOOL THREE-YEAR (ICAP) PLANNING GUIDE

	Grade 6	Grade 7	Grade 8
ENGLISH/LANGUAGE ARTS– (Required) 3 years			
SOCIAL STUDIES – (Required) 3 years			
MATH – (Required) 3 years			
SCIENCE – (Required) 3 years			
ELECTIVE - (Refer to course guide for elective choices) 3 years			
ELECTIVE - (Refer to course guide for elective choices) 3 years			
ACCESS – (This period is required for 7 th and 8 th grade students. Students who are at or above grade level in core classes have the opportunity to take enrichment classes of their choice. Students who are below grade level in core classes have the opportunity to be in support classes.)			

OVERLAND HIGH SCHOOL

FOUR-YEAR (ICAP) PLANNING GUIDE

As you plan your four years of study at Overland, keep in mind not only the graduation requirements, but also your post-graduate goals. Most colleges and universities require considerably more than what is required for high school graduation.

Beginning with the class of 2021, all graduates of the Cherry Creek School District must meet the 22 credit requirements and demonstrate college and career preparedness in both English and Mathematics. CCSD School Board Regulation IKF-R.

	Grade 9	Grade 10	Grade 11	Grade 12
English – 4.0 credits required				
Social Studies – 4.0 credits recommended; 3.0 credits req. Must include: 1.0 credit U.S. History <i>and</i> 0.5 credit Government				
Mathematics – 4.0 credits recommended; 3.0 credits req.				
Science – 4.0 credits recommended; 3.0 credits required				
World Languages – Completion of Level 3 recommended (refer to individual college entrance requirements)				
Performing & Visual Arts, Business, Applied Technology, Vocational Education – 1.5 credits required				
Health - 0.5 credits required				
Physical Education – 1.5 credits required				
Electives – 5.5 credits remaining				
A total of 24.5 credits is recommended; a minimum of 22.0 credits is required to graduate				

Students and parents may access this four-year planning guide and other post-graduate information on the Naviance website. See the Overland High School website <http://overland.cherrycreekschools.org> and click on "Naviance".

Cherry Creek School District Career & Technical Education

About Career & Technical Education (CTE)

The Cherry Creek School District Career & Technical Education (CTE) programs provide students with a relevant setting to acquire challenging academic, technical, and employability skills, knowledge, and training. CTE prepares students to succeed in postsecondary education or training leading to high-wage, high-skill, high demand careers through a wide range of learning and work experiences with career concentrations, internships, apprenticeships, industry-certification, and college credit opportunities. CTE features high school and postsecondary partnerships enabling clear pathways to certifications and degrees.

Enrollment Process

Step 1: Choose a course from the Career & Technical Education (CTE) Districtwide or Cherry Creek Innovation Campus (CCIC) Course Guide. Make sure you meet the course requirements. Some courses require additional steps.

Step 2: Complete an online application with your parents found at www.cherrycreekschools.org/CTE. If you have any questions, please see your HS counselor or call the CTE office at 720-554-4551.

Applications must be received by Friday, March 5, 2021.

Step 3: Complete and submit any additional requirements described in the course guide descriptions.

Step 4: Counselors will receive online recommendation requests upon submission of your application. Your application is not complete until recommendation and any additional steps are received.

Course times are based on current information and are subject to change.

Concurrent Enrollment

Many of the courses Cherry Creek CTE offers are "concurrent enrollment" courses. The Concurrent Enrollment program creates options for students still in high school. CCSD students receive both high school credit and college credit for Concurrent Enrollment classes. It prepares students for the rigor and culture of college. Students begin building a college transcript while they complete their high school graduation requirements. Students must receive a C or better to receive transferable college credit. College credits may transfer to a two or four year college or university. Students should check with the accepting institution for credit acceptance.

Tuition is paid by Cherry Creek Schools and the College Opportunity Fund. All students must apply for the College Opportunity Fund (COF). The COF stipend pays a portion of a student's tuition. All students must complete an application for the COF at <https://cof.college-assist.org/>.

Concurrent Enrollment college credit is subject to course and teacher approval and completion of all required registration steps by the majority of the class within the designated semester deadline. Courses may be subject to cancellation for Concurrent Enrollment college credit due to unforeseen changes.

CTE Course Offerings

The courses below listed with the  logo are offered at Overland High School.
Other courses are offered at other schools in the Cherry Creek School District.

Advanced Manufacturing (Production)



Automotive

Aviation Flight

Aviation Mechanics

Behavioral Health



Business Administration

Certified Nurse Aide



Coding/Computer Science



Criminal Justice

Digital Commercial Photography



Engineering & Technology

Future Educator



Health Sciences



Hospitality & Food Production

Infrastructure Engineering (Construction)

Networking Systems & Security

Occupational/Physical Therapy

Pharmacy Technician

STEAM: Manufacturing Graphics & Industrial Design



Visual Arts & Design

Work-based Learning: Internships & Apprenticeships

For additional information, and to view the online CTE Course Catalog, please visit
www.cherrycreekschools.org/CTE/pages

English/Language Arts

The English Language Arts Department offers a wide selection of courses designed to advance the interests and abilities of all students. Students will be empowered to apply literacy skills in their course work, both in the English Language Arts Department and in other core content areas as well.

It is the Overland-Prairie Campus expectation that our students will be prepared for college, the workforce, and life in society. To ensure this, our focus is on building students' capacity for life-long writing adaptability, research, and the ability to access literature across various genres.

At Prairie, all students are provided a rigorous curriculum aligned with the Colorado Academic State Standards. The curriculum has an intense focus on argumentative writing and reading complex text. Once at Overland, students have the opportunity to receive college credit from Advanced Placement courses or in any concurrent enrollment course offered. Furthermore, students interested in the area of journalism, speech/debate and creative writing have the opportunity to fuel their passions.

6th Grade	7th Grade	8th Grade	9th Grade	10th Grade	11th Grade	12th Grade		
6th Grade Language Arts	7th Grade Language Arts	8th Grade Language Arts	CP English 9	CP English 10	CP English 11	CP English 12		
6th Grade Honors Language Arts	7th Grade Honors Language Arts	8th Grade Honors Language Arts	English 9 Honors (W)	English 10 Honors (W)	AP English Language & Composition (W)	AP English Literature & Composition (W)		
					Introduction to Literature 115 (CE)	English Composition 121 (CE)		
							English Composition 122 (CE)	
			Prairie Access Language Arts		Overland Language Arts Electives:			
			Intensive Language Arts Support		Intensive Reading			
					Creative Writing			
					Film Studies			
					Journalism			
						Newspaper		
				Yearbook				



Prairie English/Language Arts Program

Course Name	Grade Level	Credit	Course Length	Registration	Prerequisite	Course Description
6th Grade Language Arts	6	N/A	1 year	No Signature Required	None	Sixth grade students will read and study a variety of texts designed to claim evidence, and reasoning to support their thinking. They learn structures of different styles of writing.
6th Grade Honors Language Arts	6	N/A	1 year	Teacher Signature Required	Teacher Recommendation based on standardized test scores and work samples	Students in honors classes complete a similar curriculum as the language arts classes but read higher level materials and supplemental texts and are held to a higher standard in writing. Students will be exposed to terms and methods beyond that which is required by state and national standards for the grade level. Students are expected to perform more tasks semi-independently, track their own progress, and demonstrate high levels of motivation for achievement. They should read one or more years above grade level.
7th Grade Language Arts	7	N/A	1 year	No Signature Required	None	Seventh grade students will read and study a variety of texts designed to gain background knowledge to develop a claim, use valid reasoning and relevant/sufficient evidence. They learn to enrich their writing using critical thinking, figurative language and imagery. They might also begin to examine how reasoning in critical thinking can make reading and writing experiences more valuable.
7th Grade Honors Language Arts	7	N/A	1 year	Teacher Signature Required	Teacher Recommendation based on standardized test scores and work samples	Students in honors classes complete a similar curriculum as the language arts classes but read higher level materials and supplemental texts and are held to a higher standard in writing. Students will be exposed to terms and methods beyond that which is required by state and national standards for the grade level. Students are expected to perform more tasks semi-independently, track their own progress, and demonstrate high levels of motivation for achievement. They should read one or more years above grade level.
8th Grade Language Arts	8	N/A	1 year	No Signature Required	None	Eighth grade students will read and study a variety of texts designed to work on organization and flow in writing with special emphasis placed upon argumentative writing and reading complex text. Throughout the school year, students will be empowered to defend their critical thinking skills in both reading and writing.
8th Grade Honors Language Arts	8	N/A	1 year	Teacher Signature Required	Teacher Recommendation based on standardized test scores and work samples	Students in honors classes complete a similar curriculum as the language arts classes but read higher level materials and supplemental texts and are held to a higher standard in writing. Students will be exposed to terms and methods beyond that which is required by state and national standards for the grade level. Students are expected to perform more tasks semi-independently, track their own progress, and demonstrate high levels of motivation for achievement. They should read one or more years above grade level.

Overland/English Language Arts Program

Course Name	Grade Level	Credit	Course Length	Registration	Prerequisite	Course Description
CP English 9	9	1 unit	1 year	No Signature Required	None	Students will prepare oral presentations and develop strategies for listening critically to the presentations of others. Reading: Students will read and interpret increasingly complex literary and informational texts. Writing: Students will write narrative, informational, and persuasive texts and work to establish a controlling idea and provide relevant support. Students will work to revise grammar, usage, and mechanics to achieve greater clarity. Research: Students will analyze informational materials, including electronic sources, for their relevance and accuracy.
CP English 10	10	1 unit	1 year	No Signature Required	None	Oral Expression: Students will gather and organize content that will successfully influence an audience. Students will listen actively to group members when accomplishing a group goal. Reading: Students will read literary, informational, and persuasive manuscripts in order to develop ideas and to understand traditional and contemporary texts. Writing: Students will use different organizational patterns to inform or to persuade, and their writing will feature a variety of stylistic devices while relying on a strong foundation of proper grammar and mechanic skills. Research: Students will evaluate the validity of multiple sources while collecting information in order to answer a question, propose solutions, or share findings.
CP English 11	11	1 unit	1 year	No Signature Required	None	Oral Expression: Students will analyze messages for their accuracy and relevance. Reading: Students will critically read complex literary texts to interpret and evaluate their meaning. They will synthesize ideas from informational texts for a specific purpose. Writing: Students will work to stylistically and thematically refine narrative texts. They will revise informational and persuasive texts to inform or influence an audience while making ongoing revisions in grammar, usage, and mechanics to achieve greater clarity. Research: Students will study critical thinking and evaluate quality reasoning.
CP English 12	12	1 unit	1 year	No Signature Required	None	Students will have the opportunity to develop the skills necessary to access college-level texts while also enhancing their academic vocabulary. Students will read a number of different texts, both fiction and nonfiction, from various genres in building their knowledge of text structures, the reading process, and literary techniques. Students will use textual evidence to support claims, determine themes/central ideas, and analyze authors' choices in the writing. The students will also improve their understanding of author's craft and structure. Students will have the opportunity to increase the level of sophistication in their writing, better preparing them for college and beyond. Students will read and write argumentative, informative/explanatory, and narrative texts while also expanding their understanding of effective writing. Throughout the course, students will produce clear and coherent writing, develop and strengthen writing, and use technology to produce, publish and update individual or shared writing products. Finally, students will have the opportunity to engage in research projects before presenting those to a formal audience.
English 9 Honors (W)	9	1 unit	1 year	Teacher Signature Required	Teacher Recommendation AND an "B" or higher in a previous English class	Students enrolled in Honors English 9 will accomplish the standards outlined in CP English 9 while independently reading literary and informational texts of greater complexity. Students will write longer and more complicated essays including literary analysis, will revise writing to make it more concise and precise, and will experiment with writing more sophisticated sentences.
English 10 Honors (W)	10	1 unit	1 year	Teacher Signature Required	Teacher Recommendation AND a "B" or higher in CP Eng. 9 OR a "C" or higher in Honors 9	Students enrolled in Honors English 10 will accomplish the standards addressed in CP English 10 while reading increasingly complex literary and informational texts. Students will experiment with more subtle organizational structures and incorporate more rhetorical strategies into their writing.
AP English Language & Composition (W)	11-12	1 unit	1 year	Teacher Signature Required	Teacher Recommendation AND a "C" or higher in Honors 10 OR "B" or higher in CP English 10	The AP course in English Language and Composition engages students in becoming skilled readers of prose written in a variety of rhetorical contexts, and in becoming skilled writers who compose for a variety of purposes. Both their writing and their reading should reflect students' awareness of the interactions among a writer's purposes, audience expectations, and subjects, as well as the way genre conventions and the resources of language contribute to effectiveness in writing. By the end of the course, students will be able to analyze and interpret samples of good writing, identify and explain an author's use of rhetorical strategies and techniques, create and sustain arguments based on readings, research, and/or personal experience, and write for a variety of purposes, applying effective strategies and techniques in their own writing. College Board approved. Students will take the AP Exam in May.
AP English Literature & Composition (W)	12	1 unit	1 year	Teacher Signature Required	Teacher Recommendation AND "C" or above in English 11 OR "B" or above in AP Language and Composition	The AP course in English Literature and Composition engages students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students consider a work's structure, style and themes, as well as such smaller-scale elements as the use of figurative language, imagery, symbolism and tone. Reading in an AP course is both wide and deep. The reading necessarily builds upon and complements the reading done in previous English courses so that by the time students complete their AP course, they will have read works from several genres and periods – from the 16 th century to the 21 st century. Writing assignments focus on the critical analysis of literature and include expository, analytical and argumentative essays. College Board Approved. Students will take the AP Exam in May.

Overland/English Language Arts Program

Course Name	Grade Level	Credit	Course Length	Registration	Prerequisite	Course Description
Introduction to Literature 115 (CE) 	12	1/2 unit	1 semester	Teacher Signature Required	ACT = Eng. 18 & Reading 17 OR pass the Accuplacer exam to receive CE credit	This course emphasizes the close study of fiction genres, including poetry, drama, and narrative (novellas and novels). Students will read and interpret a variety of texts in detail, work extensively with literary devices in the context of their contribution toward textual meaning, and study and practice elements of writing effective literary analysis. Students will examine the role of literature in society and how it mirrors a cultural experience. This course is a Concurrent Enrollment course through the Community College of Aurora. Students enrolled in this course will complete college-level work during their senior year of high school. Students who have met the prerequisite and earn a "C" or better in the class will receive 3 college credits.
English Composition 121 (CE) 	12	1/2 unit	1 semester	Teacher Signature Required	ACT = Eng. 18 & Reading 17 OR SATV 470 OR pass the Accuplacer exam to receive CE credit	Students will master the reading of professional essays and use critical thinking skills to write college-level papers and essays. Students will write compositions that demonstrate narrative, analytical, evaluative, informative, and persuasive thinking. This course is a Concurrent Enrollment course through the Community College of Aurora. Students enrolled in this course will complete college-level work during their senior year of high school. Students who have met the prerequisite and earn a "C" or better in the class will receive 3 college credits.
English Composition 122 (CE) 	12	1/2 unit	1 semester	Teacher Signature Required	CCA requires a "C" or better in ENG 121 OR a 3+ on AP Lang Exam	This course expands and refines the objectives of English Composition I (ENG 121). We will emphasize critical and logical thinking and reading, problem definition, research strategies, and writing analytical, evaluative, and/or persuasive papers that incorporate research. English 122 should enable students to master basic skills in critical thinking and reading, argumentation, and research. The course has six basic components: argumentation strategies, critical thinking and reading, outlining and summarizing, summary and analysis of a single essay, small-scale synthesis of several sources, and the full scope of a research paper. These six components build upon one another. Initial course assignments should give students an opportunity to practice these skills in isolation before they are needed in the research paper. This system allows students to master simpler skills in preparation for the research paper, which utilizes them all. This course is a Concurrent Enrollment course through the Community College of Aurora. Students enrolled in this course will complete college-level work during their senior year of high school. Students who have met the prerequisite and earn a C or better in the class will receive 3 college credits.
Journalism 	9-12	Elective 1/2 unit	1 semester	Teacher Signature Required	Application, Interview and Teacher Recommendation	Journalism students will demonstrate the skills of journalistic expression, particularly in the print media, with an emphasis on writing (news, editorial, feature, and sports writing), but including radio and broadcast journalism, interviewing, observing, reporting, reacting, and synthesizing. Students will understand and accept the legal and ethical responsibilities inherent in a free press. Students will also apply the concepts of layout and design to student-produced projects, giving them an opportunity to demonstrate their ability to use computers as tools for producing publications. This course is designed not only for the student who explores journalism as a career possibility, but also for any student who desires a basic understanding of how a free press functions as an element of our democratic society. In addition, students have the opportunity to contribute to the school newspaper. This course is a general elective credit and is part of the technical communications career concentration.
Creative Writing	9-12	Elective 1/2 unit	1 semester	No Signature Required	None	This course emphasizes the techniques of writing creative prose and poetry. Course activities include formal and informal writing assignments in various categories as well as reading and analyzing example writings. It appeals to those students who enjoy writing and who are working at or above grade level. This is a general elective credit.
Newspaper	10-12	Elective 1 unit	1 year	Teacher Signature Required	Application, interview & teacher recommendations required	The newspaper class writes, designs, and publishes the award-winning Scout news magazine. It is a student-run class where students work as reporters, photographers, artists, page designers, editors and webmasters. Students will learn media ethics, interviewing and reporting skills, journalistic writing, and technology and visual tools to communicate effectively. These responsibilities often require that time be spent after school as well as in class. Newspaper is a general elective credit.
Yearbook	10-12	Elective 1 unit	1 year	Teacher Signature Required	Application, interview & teacher recommendations required	Yearbook production involves writing and associated skills, graphic design, photography, and business skills. All students must be willing to work in all of the above areas. Students must be willing and able to devote time to this project and to accept responsibility for the completion of the yearbook. Some after school obligations are required for the successful completion of the yearbook. Yearbook is a general elective credit.
Intensive Reading (must be taken with an English class)	10	Elective 1/2 unit	1 semester	Counselor Signature Required	Demonstrates below-basic proficiency in reading	This Intensive Reading course will provide students who read at least two years below grade level with an intensive exposure to a variety of reading strategies to become proficient readers. These reading techniques may include detecting sequences, making inferences, drawing appropriate conclusions, and developing critical thinking skills. This is a general elective credit.

Social Studies

The Social Studies Department offers a wide selection of courses designed to advance the interests and abilities of all students. Students will be empowered to apply academic skills in their coursework both in the Social Studies Department and in other core content areas.

It is the Overland-Prairie Campus expectation that our students will be prepared for college, the workforce, and life in our society. To ensure this, our focus is on developing skilled and informed students with a desire to be lifelong learners who contribute to society and think critically about local, national, and international issues.

At Prairie, students will engage in a rigorous curriculum covering: the Western Hemisphere in sixth grade, Eastern Hemisphere in seventh grade, and United States history through the Antebellum Era with an emphasis on the Constitution in eighth grade. With this as a firm foundation, students at Overland will be given multiple opportunities to earn college credit through passage of the Advanced Placement exams, as well as taking concurrent enrollment courses through the Community College of Aurora.

6th Grade	7th Grade	8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
Social Studies 6	Social Studies 7	Social Studies 8	World Geography	Government	U.S. History	Sociology
			AP Human Geography (W)	Economics	U.S. History 101 & 102 (CE)	Latin American Studies
			Contemporary World History	AP World History (W)	AP U.S. History (W)	American Government (CE)
						Political Science (CE)
						World Religions
						Psychology
						AP Psychology (W)
						AP U.S. Government & Politics (W)
					American Ethnic Studies	
			Prairie Access Social Studies Electives:			
			Social Studies Electives:			
	Current World Events	Everyone Has A Story	Geographic Information Systems			
	Money, Money, Money	Things That Make You Go Hmmm				
	World Cultures	World History Through Movies				

* Access classes are subject to change.

Prairie Social Studies Program

Course Name	Grade Level	Credit	Course Length	Registration	Prerequisite	Course Description
Social Studies 6	6	N/A	1 year	No Signature Required	None	During sixth grade social studies students study the Western Hemisphere including the Caribbean, Central America, South America, Mexico and modern globalization. The curriculum provides students an opportunity to study the geography, history, government, and economics of the regions. Students will connect the reading and writing skills that they are using in Language Arts with the areas of study above. Students will also be introduced to skills such as determining cause and effect, differentiating between primary and secondary sources, drawing conclusions, and summarizing.
Social Studies 7	7	N/A	1 year	No Signature Required	None	During seventh grade Social Studies, students study the Eastern Hemisphere, focusing on the geography, history, governments, and economics of the regions through 1450. In addition to the study of Africa, Asia, the Middle East, and Europe, students will also investigate the concept of globalization and the role that it plays in our world. Students will further develop skills in historical inquiry and research, comparison and contrast, and analysis of varied sources.
Social Studies 8	8	N/A	1 year	No Signature Required	None	During eighth grade Social Studies, students focus on the geography, history, government, and economics of the United States through the Antebellum Era. Students spend their time looking at the role that people and the government play and the various ways that these two groups interact. Students continue to develop expertise in historical inquiry as well as using primary and secondary sources of information to make claims and support them.

Overland Social Studies Program

Course Name	Grade Level	Credit	Course Length	Registration	Prerequisite	Course Description
World Geography	9	1/2 unit	1/2 year	No Signature Required	None	Designed to introduce students to the human geographical themes of culture, population, natural resources, development, human rights, and globalization. The unifying idea of the units in this course is to explore reasons for why the world is unevenly developed. Students are expected to master the use of maps and spatial data sets, as well as complete a significant culminating project at the end of the course.
AP Human Geography (W)	9	1 unit	1 year	Signature Required	**Proficient reading skills AND 8th grade Teacher Recommendation	Introduces students to the systematic study of patterns and processes that have shaped human understanding, and the use and alteration of the earth's surface. Students will use spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice, such as GIS and other online resources. AP Human Geography will cover the following themes throughout the year: population, migration, culture, language, religion, ethnicity, political geography, development, agriculture, industries, urban patterns, and resource problems. An advanced placement exam will be given at the end of the course, which provides students with an opportunity to earn college credit. This course is designed to address and exceed state standards in Geography.
World History	9	1/2 unit	1 semester	No Signature Required	None	Students will examine major themes of world history from hunter-gathers and emerging complex civilizations to the Cold War. His course uses a chronological and thematic approach in order to create logical and relevant connection from the past to today. The examination of long-term cause and effect will be conducted through critical thinking, reading, writing and speaking skills. This course is designed to prepare students for humanities college courses in college and CE courses at OHS.
Government	10	1/2 unit	1 semester	No Signature Required	None	A state-required, semester-long course designed to introduce students to the Constitutional principles of the United States republican form of government and how to apply this constitutional knowledge to form an understanding of government. Students will also examine current U.S. policies, citizen rights and the means to participate within government, as well as the relationships on the local, state, national and international level. This course is designed to address state standards in Government and Civics. An ELA teacher will be in class to lend support to students whose native language is other than English.

Overland Social Studies Program

Course Name	Grade Level	Credit	Course Length	Registration	Prerequisite	Course Description
Economics	10	1/2 unit	1 semester	No Signature Required	None	Current economic issues will serve as a foundation for the application of economic theory in this semester course. Analysis of the American economic system as it relates to the individual and other economic systems will be a focus. Specific units will cover microeconomic concepts such as the law of supply and demand, factors of production, and the business cycle. Macroeconomic topics will include money and banking, monetary and fiscal policy, international trade, the impact of globalization and Personal Financial Literacy.
U.S. History	11	1 unit	1 year	No Signature Required	None	This course is designed to explore America's historical development from the Reconstruction Era to the present day. Students will acquire a sense of chronology, identify causes and effects, recognize the events, individuals, and philosophies that helped shape our contemporary society, and use historical inquiry to evaluate prominent episodes in U.S. history. Some major topics include social and ethnic development, Industrialization, the World Wars, the Depression, the Cold War Era, the Vietnam Era, the 1960's and 70's, and the developments of the 1980's and early 1990's. This course meets U.S. History requirement.
American Ethnic Studies	11-12	Elective 1/2 unit	1 semester	No Signature Required	Students need to have taken US History or need to be taking US History Concurrently.	This course focuses on the history of ethnic and racial minority groups in the United States of America. Students will have the opportunity to learn about racism, oppression, xenophobia, and ongoing efforts to fight for greater social, economic, and political equity. The writings, rhetoric, and actions of historically oppressed people will be examined and paired with modern perspectives of those who continue to push for greater inclusion, access, and opportunity. This highly interactive course will help students hone skills that are crucial for college and careers.
AP World History (W)	10	1 unit	1 year	Signature Required	***"B" Average in Social Studies courses, Proficient reading skill based on 8th grade CSAP AND 9th grade Teacher Recommendation	World History explores societies, institutions and ideas that constitute the history of our world. This course progresses chronologically and thematically, technological and environmental transformations, organization and reorganization of human societies, regional and transregional interactions, global interactions, industrialization and global integration, and the accelerating global change and realignments. The purpose of the AP World History course is to develop greater understanding of the evolution of global processes and contacts, in interaction with different types of human societies. This understanding is advanced through a combination of selective factual knowledge and appropriate analytical skills. The course builds on an understanding of cultural, institutional, and technological precedents. Specific themes provide further organization to the course, along with the consistent attention to contacts among societies that form the core of world history as a field of study. At the end of the course students will take the AP examination for college credit.
AP U.S. History (W)	11	1 unit	1 year	Signature Required	***"B" Average in Social Studies courses, Proficient reading skill based on 9th grade CSAP AND 10th grade Teacher Recommendation	A college-level course designed to provide students with the skills and factual knowledge necessary to succeed in a post-secondary level history class. The course will cover the political, diplomatic, economic, social, cultural and intellectual history of the United States from 1492 to the present. This course will prepare each student for intermediate and advanced college history courses by making demands equivalent to those of a full year introductory college course. This yearlong course prepares each student for the AP Exam in May. Students who pass the national exam will receive six semester hours of college credit in history and/or advanced placement in college courses. This course meets U.S. History requirement.
U.S. History 101 & 102 (CE)	11	1 unit	1 year	Signature Required	Must pass the Accuplacer exam to receive CE credit	This six-credit concurrent enrollment course begins with the development of early America and the period of European exploration and colonization. The student will study important periods in the development of the United States. Some major topics include the American Revolution, the U.S. Constitution, the Civil War, social and ethnic development, Industrialization, the World Wars, the Depression, the Cold War Era, the Vietnam Era, the 1960's and 70's, and developments of the 1980's and early 1990's. Through the use of critical thinking, the student will analyze these periods of the past and discover their relevance to the present. This course is a Concurrent Enrollment course through the Community College of Aurora. Students enrolled in this course will complete college-level work during their junior year of high school. Students who have met the prerequisite and earn a "C" or better in the class will receive 6 college credits (3 credits per semester).

Overland Social Studies Program

Course Name	Grade Level	Credit	Course Length	Registration	Prerequisite	Course Description
Sociology	12	1/2 unit	1 semester	No Signature Required	None	An in-depth look at local, national, and international current events that affect everyday life in America. Using a variety of techniques such as discussion, news media, guest speakers, and research, students are exposed to the issues and developments that impact our society. The goal of the course is to stimulate interest in national and international affairs and thus motivate the student to become more actively involved in the contemporary issues of our society.
Latin American Studies	12	1/2 unit	1 semester	No Signature Required	None	A semester-long course that offers a survey of the historical and modern societies of Mexico, Brazil, Argentina, Cuba, Puerto Rico, and other Latin American and Caribbean nations. Cultural, social, political, geographic, military, and economic features of the region will be examined.
AP U.S. Government and Politics (W)	12	1 unit	1 year	No Signature Required	2.5 GPA OR approval from previous social studies instructor	AP US Government and Politics is designed as a college-level course. You will study the workings of the American political system, including why people vote the way they do, what your rights are in the United States, how and why America creates domestic and foreign policies. The course is a mixture of some activities in the classroom and some that will take you into the 'real world' of politics and government. An advanced placement exam will be given at the end of the course, which provides students with the opportunity to earn college credits. The course is designed to address and exceed content area standards in government and civics. Student must pass both semesters to fulfill the high school credit requirement.
American Government (CE)	12	1/2 unit	1 semester	No Signature Required	U.S. History; Must pass the Accuplacer exam to receive CE credit	This course focuses on the practical understanding of the American government system, including: the US Constitution, civil rights and civil liberties, the role of political parties, interest groups, elections, the media and how people can impact public policy. This course is offered ONLY during the Fall Semester and will fulfill the high school government credit requirement. This course is a Concurrent Enrollment course through the Community College of Aurora. Students enrolled in this course will complete college-level work during their junior/senior year of high school. Students who have met the prerequisite and earn a "C" or better in the class will receive 3 college credits. This course is one of the Statewide Guaranteed Transfer courses. CT-SS1.
Political Science (CE)	12	1/2 unit	1 semester	No Signature Required	Completed OR enrolled in a Government course; Must pass the Accuplacer exam to receive CE credit.	This class focuses on how governments outside of the United States work. Countries include, but are not limited to: the United Kingdom, Nigeria, Iran, Russia, Mexico, China and the European union. You will learn how other countries make and deal with domestic and foreign policy issues and how culture impacts the government processes. The course is designed for students interested in international affairs, business, or social issues. Political Science is a Concurrent Enrollment course through the Community College of Aurora (Comparative Government- POS 225). Students enrolled in this course will complete college-level work during their junior/senior year of high school. Students who have met the prerequisite and earn a "C" or better in the class will receive 3 college credits.
World Religions	12	1/2 unit	1 semester	No Signature Required	None	Offers students the opportunity to explore the major religions and philosophies of the world, including Hinduism, Buddhism, Taoism, Judaism, Islam and Christianity. This class explores the historical origins of each religion, its beliefs and practices, and the impact each religion has on its members. Students can expect a high level of discussion and an even higher level of critical thinking. Guest speakers and a day long field trip to the area's holy sites will also be used to further understand each faith. College readiness skills will also be sharpened through essay writing, research projects and student presentations.
Psychology	12	1/2 unit	1 semester	No Signature Required	None	The study of human behavior. This semester long course is designed to introduce students to the basic principles of psychology and how it applies individually and in our society. Topics will include developmental psychology, learning principles and applications, personality theory, the brain, and mental disorders. The goals of the course are to provide information that students can use in their everyday life, as well as to provide a foundation in the field of psychology.

Overland Social Studies Program

Course Name	Grade Level	Credit	Course Length	Registration	Prerequisite	Course Description
AP Psychology (W)	12	1 unit	1 year	Teacher Signature Required	***B" Average in Social Studies courses, Proficient reading skill based on 10th grade CSAP AND Teacher Recommendation	A college-level course designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major sub-fields within psychology. They also learn about the methods psychologists use in their science and practice. Units of study revolve around the biological bases of behavior, learning, motivation and emotion, with emphasis on the brain's role in development and personality. College readiness skills such as note-taking, study aides, organization and test taking will also serve as a foundation for all students to adhere to for successful comprehension of the course material. Students are expected to have a strong work ethic and exemplar attendance. There will be an AP exam in May.
Geographic Information Systems	9-12	Elective 1/2 unit	1 semester	No Signature Required	None	An introduction to the concepts and uses of Geographic Information Systems (GIS). GIS is a system of computer software, hardware, and personnel designed to visualize, manipulate, analyze, and display spatial data. A GIS can create "Smart Maps" that links a database to a map. This allows individuals to view relationships, patterns, or trends that are not possible to see with traditional charts, graphs, and spreadsheets. Students will work with GPS units and build maps from actual satellite coordinate data. Through computer lab tutorials and case studies, students will learn to use ArcGIS 10 Software from Environmental Systems Research Institute (ESRI). Some topics include City and Regional Planning, Community and Economic Planning and Development, Housing Studies, Transit and Transportation Issues, Land Use, Historic and Archeological Studies, Crime Analysis and Policing, Emergency Management and Public Works Utilities, Census and Demographic Studies, Public Health, and Business uses including Marketing and Advertising.
AP Art History (W)	12	Elective 1 unit	1 year	Teacher Signature Required	None	Fee - AP Test at Conclusion Art is the evidence left behind by world history. Students will learn about world cultures, religions, politics and philosophies through art and architecture. They will study significant artists, art periods, styles and mediums and how they are a part of human evolution and thought, from Prehistoric cave paintings to contemporary architecture. Student research and essay writing are a part of this course. AP Art History is a nationally recognized course sponsored by the College Board, and upon successful completion of the AP exam, students may earn college credit. Students can use this course for a full Art credit or a half of an Art credit plus half of a Social Studies credit.
Geography (Online)	9-12	1/2 unit	1 semester	Counselor Signature Required	None	Geography is designed to introduce students to the major themes of culture, development, population, migration and current global issues. Students in this course will use geographic tools, such as Google Earth and web-based GIS to analyze and interpret spatial data sets. Students will analyze case studies of specific places in order to better understand themes of the course. Students will complete project based, maps, presentations and field papers to demonstrate their understanding of the content.
U.S. History (Online)	11-12	1 unit	1 year	Counselor Signature Required	None	U.S. History online offers an interpretive overview of American history using a thematic and standards-based approach to learning. The themes used to interpret history revolve around the following areas: American character; immigration; diversity within the subgroups of women, Native Americans and African Americans; economic development; religion; reform; characteristics in presidency; conflicts resulting in war; and how history has influenced our world today. Our objective is to understand not only what happened in American History but also why it happened, using a variety of primary sources and a wide range of scholarly interpretations. The eras covered will range from European migration to North America through the present day.
Government (Online)	10-12	1/2 unit	1 semester	Counselor Signature Required	None	American Government focusses on the constitutional principles of the United States republican form of government. Students will apply this constitutional knowledge to form an understanding of government and its relationships on the local, state, national and international levels.

Mathematics

The Mathematics Department offers a wide selection of courses designed to advance the interests and abilities of all students. Students will be empowered to apply academic skills in their course work both in the Mathematics Department and other core content areas. The curriculum is guided by the Cherry Creek Math Standards and under the Colorado State Math Standards.

It is the Overland-Prairie Campus expectation that our students will be prepared for college, the workforce, and life in society. To ensure this, our focus is on building skills in mathematical thinking, problem solving, critical-analysis, and for application in everyday life.

At Prairie, students will be engaged in rigorous coursework consisting of about ninety-minutes of mathematics everyday in both the 6th and 7th grades. A college bound student with an intended major requiring advanced mathematics should consider a seven-year accelerated program, including Calculus as a junior or senior.

6th Grade	7th Grade	8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
Math 6			Algebra 1			
Math 6/7			Algebra 2			
	Math 7		Geometry			
	Math 7/8		Geometry Honors (W)			
			Algebra 2 Honors (W)			
	Math 8				Math for the Liberal Arts (CE)	
	Algebra 1					
Praire Access Mathematics Electives:						Intro. to College Algebra/College Algebra (CE)
						College Algebra (CE)
						College Trigonometry (CE)
						Pre-Calculus
						AP Calculus AB (W)
			AP Calculus BC (W)			
			Calculus 3/Differential Equations (CE)			
					Discrete Math	
					Probability & Statistics	
					Applied Math	
Targeted Math	Algebra Support				AP Statistics (W)	




Prairie Mathematics Program

Course Name	Grade Level	Credit	Course Length	Registration	Prerequisite	Course Description
Math 6	6	N/A	1 year	No Signature Required	None	Students will build on their understanding of numbers from elementary school and begin to learn the abstract components of mathematics. Content will focus on four critical areas including (1) connecting ratio and rate to whole number multiplication and division and using concepts of ratio and rate to solve problems; (2) completing understanding of division of fractions and extending the notion of number to the system of rational number, which includes negative numbers; (3) writing, interpreting, and using expressions and equations; and (4) developing understanding of statistical thinking. This work will lay the foundation for the focus on proportional reasoning in seventh grade.
Math 7	7	N/A	1 year	No Signature Required	None	Students will build on their work with rational numbers and algebraic thinking from sixth grade as they move into deeper and more complex math concepts. Math content will focus on four critical areas, including (1) developing understanding of and application of proportional relationships; (2) developing understanding of operations with rational numbers and working with expressions and linear equations; (3) solving problems involving geometric ideas of scale, area, surface area and volume with two- and three-dimensional shapes, and (4) drawing inferences about populations based on samples. This work will lay the foundation for the algebraic work with linear functions studied in eighth grade.
Math 8	8	N/A	1 year	No Signature Required	None	Students begin a serious study of algebra with the learning of linear functions. With the study of number relatively complete, the focus shifts to the abstract application of understanding arithmetic. This content will focus on three critical areas, including (1) formulating and reasoning about expressions and equations, and working with systems of linear equations; (2) developing an understanding of the concept of a function, and using functions to describe quantitative relationships; and (3) analyzing two- and three-dimensional space and figures using distance, angle, similarity, and congruence, and understanding and applying the Pythagorean Theorem. This work will lay the foundation for success in a high school Algebra 1 course.
Math 6/7	6	N/A	1 year	Teacher Signature Required	Teacher Recommendation based on standardized test scores, district test scores, and work samples	Students interested in pursuing math and science related interests in middle school, high school, and post-secondary options may choose to access Algebra 1 prior to high school. Math 6/7 and Math 7/8 provide three years of mathematics content in two years, preparing students for Algebra 1 in grade 8. Math 6/7 students study all topics from Math 6 (see course description), extend the concepts of ratio and rate from Math 6 to include proportional relationships from Math 7, as well as extending their study of statistical thinking (Math 6) to include statistical inference based on samples (Math 7). The compacted nature of the course will require students to be comfortable and proficient learning math at an accelerated pace. Placement in Math 6/7 will be determined using a body of evidence to support students' readiness for success in this course.
Math 7/8	7	N/A	1 year	Teacher Signature Required	Successful completion of Math 6/7 OR Teacher recommendation based on standardized test scores and work samples	Students who have successfully completed Math 6/7 may choose to complete this two-year compacted course sequence, preparing them for Algebra 1 in grade 8. Students will complete their study of Math 7 topics (see Math 7 course description) not covered in Math 6/7, including working with expressions and linear equations and the geometric study of two- and three-dimensional shapes. These concepts will be extended to the Math 8 topics of linear equations and the Pythagorean Theorem, respectively. The full content of Math 8 (see Math 8 course description) will be studied in this course. The compacted nature of the course will require students to be comfortable and proficient learning math at an accelerated pace.
Algebra 1	8	N/A	1 year	Teacher Signature Required	Successful completion of Math 7/8 OR Teacher recommendation based on standardized test scores and work samples	Algebra 1 formalizes and extends the mathematics that students learned in Math 6, 7, and 8. The major components of study include (1) using equations and inequalities to model real-life quantities and manipulating them to highlight quantities of interest while focusing on the underlying structures of equations and inequalities; (2) understanding of the concept of a function, the use of function notations, and the structures of exponential functions and how they compare and contrast with linear functions; (3) working with quadratic functions through a structural perspective and in comparison to linear and exponential functions. These concepts lay the foundations for analytic geometry concepts in a subsequent geometry course and for study with different function types in Algebra 2 and other advanced math courses. This course is equivalent to the Algebra 1 course taught at CCSD high schools.


Overland Mathematics Program

Course Name	Grade Level	Credit	Course Length	Registration	Prerequisite	Course Description
Algebra 1	9-12	1 unit	1 year	Teacher Signature Required	None	Students taking this course should have mastered all basic arithmetic skills. Topics covered include sets, the real number system and its properties, operations with polynomials, linear equations, inequalities, systems of equations, factoring polynomials, graphing, radicals, and quadratic equations. This course provides required background necessary for the successful completion of Geometry and Algebra 2. Problem solving is emphasized and students use current technology including graphing calculators and computers.
Algebra 2	9-12	1 unit	1 year	Teacher Signature Required	Geometry	This course is usually taken after Geometry. The course covers topics such as quadratic functions, complex numbers, solving systems of equations and inequalities, polynomial functions, exponential and logarithmic functions and college algebra. This course serves as a foundation for and is a prerequisite to Pre-Calculus/Trigonometry and AP Statistics. Graphing Calculator Required
Geometry	9-12	1 unit	1 year	Teacher Signature Required	Algebra 1	This course is the second year of the sequence of Algebra 1, Geometry, and Algebra 2. Topics include reasoning and proof, perpendicular and parallel lines, triangles, quadrilaterals, similarity, right triangle trigonometry, circles, area, and volume. It offers students many opportunities to explore geometric situations, develop concepts, and use theorems and postulates to solve applications. Students are required to communicate reasoning through proofs and other forms of writing. The course provides extensive use of algebra skills integrated into geometry concepts.
Math for the Liberal Arts (CE)	12	1/2 unit	1 semester	Teacher Signature Required	Attempted Algebra 1, Geometry and Algebra 2	This course develops mathematical and problem-solving skills. Appropriate technological skills are included. Content is selected to highlight connections between mathematics and the society in which we live. Topics include set theory and logic, mathematical modeling, probability and statistical methods, and consumer mathematics. Additional content will include one topic geometry, numeration systems, decision theory, or management science. This course is a Concurrent Enrollment course through the Community College of Aurora.
Geometry Honors (W)	9-10	1 unit	1 year	Teacher Signature Required	Algebra 1	This course is for the accelerated math student. Geometry Honors covers the same material as Geometry but moves faster, requires more work, treats topics in greater depth and requires a higher level of mastery. This Geometry course will also cover more topics that will prepare the students for Algebra 2 Honors. This course is designed to be part of a progression that continues on to Honors Algebra 2, AP Calculus, and Calculus 3.
Algebra 2 Honors (W)	9-11	1 unit	1 year	Teacher Signature Required	Geometry Honors	This course is for the talented mathematics student who wants a challenge. The course is normally taken after Geometry Honors and covers topics such as quadratic functions, complex numbers, solving systems of equations and inequalities, polynomial functions exponential and logarithmic functions, arithmetic and geometric series. Problem solving is emphasized. This course is more rigorous mathematically, requires more work, treats topics in greater depth, and requires a higher level of mastery than does Algebra 2. This course is required for those students who plan to take advanced math courses in the future. Pre-Calculus will be included in this accelerated course. This course is designed to be part of the accelerated progression of Honors Geometry/Pre-Calculus, Algebra 2/Pre-Calculus Honors, and then Calculus AB, BC, and Calculus 3. Graphing Calculator Required.
Intro. to College Algebra/College Algebra (CE)	11-12	1 unit	1 year	Teacher Signature Required	Algebra 2	Develops skills necessary for manipulating algebraic expressions and solving algebraic equations. Topics in the course include radicals, complex numbers, polynomials, factoring, rational expressions, quadratic equations, absolute value equations and inequalities, systems of linear equations, related applications, math learning strategies, Functions and their graphs, exponential and logarithmic functions, linear and non-linear systems, quadratics, radical, rational, absolute value and inequalities.
College Algebra (CE)	11-12	1/2 unit	1 semester	Teacher Signature Required	Must pass the Accuplacer exam to receive CE credit OR Intro. to College Algebra with a "C" or higher	This course begins with a review of topics from Introduction of College including: linear equations, complex numbers and matrix operations. This course covers topics including: Functions and their graphs, exponential and logarithmic functions, linear and non-linear systems (quadratics, radical, rational, absolute value and inequalities), as well as theory of equations including Polynomial and Rational Functions. Additional topics may be included. Students who meet the following testing criteria can earn 4 college credits through the Community College of Aurora for College Algebra MAT 121: ACC : EA = 85 or ACTM = 23 or SATM = 500

Overland Mathematics Program

Course Name	Grade Level	Credit	Course Length	Registration	Prerequisite	Course Description
College Trigonometry (CE) 	11-12	1/2 unit + 3 college credits	1 semester	Counselor Signature Required	College Algebra OR Honors Algebra 2	Topics in trigonometry, analytic geometry, and elementary functions designed for students who intend to take calculus in college. Angles and trigonometry functions of acute angles, analytic trigonometry, fundamental trigonometric functions and identities including hyperbolic trigonometry, parametric equations, and polar coordinate system. Students are required to use a TI-83 Plus or newer graphing calculator. This course is a Concurrent Enrollment course through the Community College of Aurora. Students enrolled in this course will complete college-level work during their junior/senior year of high school. Students who have met the prerequisite and earn a "C" or better in the class will receive 3 college credits.
Pre-Calculus 	11-12	1/2 unit	1 semester	Teacher Signature Required	Algebra 2 with a "C" or higher	This is an advanced mathematics course meant for highly capable students. A wide range of topics is covered with emphasis on functions which are studied numerically, symbolically and graphically. A graphing calculator is used extensively in this course. This course is strongly recommended for students who plan to continue in math, science or related areas in college. The topics which are covered should help to bridge the gap between high school and college mathematics. Pre-Calculus is recommended for students interested in careers in such areas as mathematics, science, engineering and business. The initial units of differential calculus are completed at the end of the year in this course. Graphing Calculator Required.
Discrete Math 	12	1/2 unit	1 semester	Teacher Signature Required	Algebra 2	Discrete math will introduce the students to the financial and graphical analysis side of mathematics. This course is designed to take math and make it applicable and accessible. The math knowledge needed is basic mathematics such as addition, subtraction, multiplication, and division. The topics covered are graphical analysis, personal financial math, financial decision-making, different voting methods, and sequences and series. The course provides an access point for math with students that have not found much success in the traditional math courses. This course is designed for students who have a need to be career and consumer ready.
Applied Math	12	1/2 unit	1 semester	Teacher Signature Required	Algebra 2	Applied Math course will assist students in improving their ability to apply the principles of mathematics to problems in the workplace. The course will help students find, analyze, and apply information presented in workplace graphics. This course is also designed to support students who have not shown math competency required for graduation. The students will have the opportunity to take the ACT Workkeys exam that will provide the opportunity to demonstrate competency and fulfill this requirement. The course is designed for seniors who need support in fulfilling the graduation competency for mathematics.
Probability and Statistics	12	1/2 unit	1 semester	Teacher Signature Required	Algebra 2	Probability is the basis for mathematical models of situations in the sciences; statistics is the art of gathering, analyzing, and making inferences from data. Topics include interpretation of statistical data, computation of probabilities given events, frequency distributions, and application of random sampling to probability.
AP Statistics (W)	12	1 unit	1 year	Teacher Signature Required	Algebra 2 OR any higher math course with a "C" or higher	This is a college level course in elementary statistics and probability. Topics include: exploratory data analysis, experimental design, probability distributions, statistical inference. Graphing Calculators Required. Students will take the Advanced Placement (AP) Examination in Statistics during May of spring semester.

Overland Mathematics Program

Course Name	Grade Level	Credit	Course Length	Registration	Prerequisite	Course Description
AP Calculus AB (W) IST	11-12	1 unit	1 year	Teacher Signature Required	Pre-Calculus with a "C" or higher	This is a college level course in differential and integral Calculus covering the equivalent of Calculus I. Graphing Calculator Required. Students will take the AP examination during May of the spring semester.
AP Calculus BC (W) IST	11-12	1 unit	1 year	Teacher Signature Required	Pre-Calculus with a "B" or higher	This is a college level course in differential and integral Calculus covering the equivalent of Calculus I and Calculus II. Graphing Calculator Required. Students will take the AP examination during May of the spring semester.
Calculus 3/Differential Equations (CE)  IST	11-12	1 unit	1 year	Teacher Signature Required	AP Calculus BC	This is the 3rd semester of Calculus. Topics include Vectors & Geometry of Space, Vector-valued Functions, Functions of Several Variables, Multiple Integration and Vector Analysis. The second semester is an introduction to Linear Algebra and a survey of higher-level Collegiate Mathematics. Graphing Calculator Required. This course is a Concurrent Enrollment course through the Community College of Aurora. Students enrolled in this course will complete college-level work during their junior/senior year of high school. Students who have met the prerequisite and earn a "C" or better in the class will receive 3/4 college credits.
Independent Study Research/Mathematics	11-12	1 unit	1 year	Teacher Signature Required	Calc 3/Diff Eq	This course is offered to those students interested in conducting research in Mathematics or to students wanting to pursue Math or Applied Mathematics Careers.

Science

The Science Department offers a wide selection of courses designed to advance the interests and abilities of all students. Students will be empowered to apply academic skills in their course work both in the Science Department and other core content areas as well.

It is the Overland-Prairie Campus expectation that our students will be prepared for college, the workforce, and life in our society. To ensure this, our focus in science is that every student leaves us with the skills they need to be successful in a world of ever-increasing scientific and technological issues and innovations.

At Prairie, students will be engaged in a rigorous program that covers the Physical Sciences, Earth Sciences, and the Biological Sciences in a balanced approach in sixth through eighth grade. At Overland, we strongly recommend that every college-bound student enroll in a sequence of science classes that includes a balanced selection of coursework in biological sciences, chemistry and physics. Students with interests in particular fields of science are encouraged to enroll in multiple science classes in a given semester, thereby balancing the recommended classes with their areas of interest. The Overland-Prairie Campus promotes the sciences through inquiry to have students generate questions, explore and interpret what they see, stimulate the appetites for explanation and experience the thrill of scientific discovery!

6th Grade	7th Grade	8th Grade	9th Grade	10th Grade	11th Grade	12th Grade		
6th Grade Science	7th Grade Science	8th Grade Science	Zoology					
			Biology					
			Biology Honors (W)					
			Chemistry Honors (W)					
					Chemistry			
					AP Biology (W)			
							AP Physics 1 (W)	
			Physics				AP Physics C (W)	
							AP Environmental Science (W)	
			Anatomy & Physiology (CE)					
			Biotechnology (CE)					
			Prairie Access Science Electives:					
			Comparative Anatomy		Marine Biology		Science Electives:	
			Crime Scene Investigation		Science Busters		Forensic Science	
Digging Up the Dirt on Dinosaurs		Simple Machines		Intro. to Science Research				
Great Mysteries of Science				Microbiology				
Healthy Habits				Applied Science Research and Communications				
* Access classes are subject to change.				Epic Medical Careers				
						Environmental Science		
				Geology				
						Genetics		
						Geology (CE)		
Astronomy								

Prairie Science Program

Course Name	Grade Level	Credit	Course Length	Registration	Prerequisite	Course Description
6th Grade Science	6	N/A	1 year	No Signature Required	None	The sixth grade science program is designed to provide students with the opportunity for hands-on, investigative, problem-solving experiences in a variety of science topics. In addition to developing laboratory skills, students will be given a foundation in basic science concepts, vocabulary, graphing, data analysis, measurement, and math application. Students will investigate biological, physical and earth science concepts throughout the year. All units are aligned with the Colorado Academic Standards. Areas of study will include: Cells & Body Systems, Weather, Climate, Kinetic Energy and Heat.
7th Grade Science	7	N/A	1 year	No Signature Required	None	The seventh grade science program is designed to provide students with the opportunity for hands-on, investigative, problem-solving experiences in a variety of science topics. In addition to developing laboratory skills, students will be given a foundation in basic science concepts, vocabulary, graphing, data analysis, measurement, and math application. Students will investigate biological, physical and earth science concepts through-out the year. All units are aligned with the Colorado Academic Standards. Areas of study will include: Chemical Reactions, States of Matter, Plate Tectonics, Natural Resources, Photosynthesis and Ecosystems.
8th Grade Science	8	N/A	1 year	No Signature Required	None	The eighth grade science program is designed to provide students with the opportunity for hands-on, investigative, problem-solving experiences in a variety of science topics. In addition to developing laboratory skills, students will be given a foundation in basic science concepts, vocabulary, graphing, data analysis, measurement, and math application. Students will investigate biological, physical and earth science concepts through-out the year. All units are aligned with the Colorado Academic Standards. Areas of study will include: Energy, Force & Motion, Waves, Universe, Solar Systems, Earth History and Biological Evolution.



Overland Science Program

Course Name	Grade Level	Credit	Course Length	Registration	Prerequisite	Course Description
Zoology	9-10	1/2 unit	1 semester	Teacher Signature Required	None	This course gives an introduction to zoology, with particular emphasis on the structure/function and classification of both vertebrates and invertebrates. In addition, the students will explore basic knowledge in animal behavior, evolution, and human ecology (including an introduction to the biosphere and biodiversity). The course is intended to be very "hands-on" including dissections , and experimental animal behavior projects, as well as allowing students the opportunity to conduct print and web-based research. Students will also use 21 st Century Skills to create multimedia showcases of their understanding.
Biology	9-12	1 unit	1 year	Teacher Signature Required	Algebra 1 (co-requisite)	Students learn about organisms from a behavioral, ecological, genetic and evolutionary context. Students will explore how living systems interact with other organisms and their environment, analyze relationships between structure and function in living systems, analyze how organisms grow, develop and differentiate during their lifetimes, and use genetics to explain the biodiversity and the relatedness of all organisms. Units of study include: ecology, chemistry of life, cellular structure and function, genetics, and evolution. Laboratory activities reinforce concepts and principles presented.
Biology Honors (W)	9-12	1 unit	1 year	Teacher Signature Required	Geometry (co-requisite) or Teacher Recommendation	In this fast-paced course, students learn about organisms from a behavioral, ecological, genetic and evolutionary context. Students will explore how living systems interact with other organisms and their environment, analyze relationships between structure and function in living systems, analyze how organisms grow, develop and differentiate during their lifetimes, and use genetics to explain the biodiversity and the relatedness of all organisms. The student will learn the biochemistry of living things, the cellular and molecular structure of organisms, genetics, evolution, ecology and the diversity of life forms including humans. Honors biology improves the student's critical thinking skills, problem-solving ability and technical writing skills. Laboratory activities reinforce concepts and principles presented. This course covers the same topics as the regular biology program, but in a greater depth and at an accelerated rate.

Overland Science Program

Course Name	Grade Level	Credit	Course Length	Registration	Prerequisite	Course Description
Chemistry	10-12	1 unit	1 year	Teacher Signature Required	Geometry (may be taken concurrently)	This course provides the opportunity to develop knowledge and understanding about the relationships between the structure and properties of matter, and the interaction of mass and energy. Units of study include: matter and its changes, atomic structure, chemical composition, nomenclature, reactions, stoichiometry, gas laws, periodicity, bonding, molar geometry, and thermochemistry. Laboratory activities reinforce concepts and principles presented in this course. This class teaches students fundamental chemical concepts and an understanding of the connection to the world around them. This curriculum incorporates technical reading and writing skills in alignment with the Colorado State Standards.
Chemistry Honors (W)	9-12	1 unit	1 year	Teacher Signature Required	Geometry completed AND Algebra 2 or higher math (may be taken concurrently) OR teacher recommendation	This course is designed as an AP Science preparatory class and provides the opportunity to develop knowledge and understanding about the relationships between the structure and properties of matter, and the interaction of mass and energy. Units of study include: matter and its changes, atomic structure, chemical composition, nomenclature, reactions, stoichiometry, gas laws, periodicity, bonding, molar geometry, and thermo chemistry. Laboratory activities reinforce concepts and principles presented in this course. This class is designed to teach the student fundamental chemical concepts and provide an understanding of their connection to the world around them. This course covers the same topics as the regular Chemistry program, but in greater depth and at an accelerated rate. It provides a solid foundation of chemical, quantitative, and technological concepts for those students planning to study science and technology in college. This class is a prerequisite for AP Chemistry.
Physics	11	1 unit	1 year	Teacher Signature Required	Algebra 2 or higher (may be taken concurrently)	Physics is a study of the laws that control the physical world. The topics include motion, forces, momentum, energy, waves (sound, light, radio, water, etc.), electricity, magnetism, relativity and atomic physics. Laboratory work serves to promote understanding and to illustrate the experimental nature of physics.
AP Physics 1 (W)	11-12	1 unit	1 year	Teacher Signature Required	Pre-Calculus (may be taken concurrently) OR teacher recommendation	AP Physics 1 is Algebra-Based. It is the equivalent to 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. The expectation is that students take the AP exam at the end of this course.
AP Physics 2 (W)	11-12	1 unit	1 year	Teacher Signature Required	Pre-Calculus (may be taken concurrently) OR teacher recommendation	AP Physics 2 is Algebra-Based. It is the equivalent to a second-semester college course in algebra-based physics. The course covers fluid mechanics; thermo-dynamics; electricity and magnetism; optics; atomic and nuclear physics. The expectation is that students take the AP exam at the end of this course.
AP Biology (W)	10-12	1 unit	1 year	Teacher Signature Required	Chemistry (may be taken concurrently) OR Teacher Recommendation	AP Biology is designed to be the equivalent of a college introductory biology course. Units of study include: chemistry of life, cells, cellular energetics, heredity, molecular genetics, evolutionary biology, diversity of organisms, structure and function of plants and animals, and ecology. This course differs significantly from a high school course with respect to the laboratory work done and the time and effort of the student outside of class. The expectation is that students take the AP exam at the end of this course. College credit and placement are awarded by individual universities based on the student's performance on the national AP Biology exam. Students are encouraged to purchase a college text for the course. Prerequisite: Honors Chemistry as 9th grader, to take as a 10th grader or 12th grader.
AP Physics C (W)	12	1 unit	1 year	Teacher Signature Required	AP Calculus AB (prerequisite OR may be taken concurrently)	AP Physics C is designed to be the equivalent of a college introductory physics course. The curriculum for this class is the College Board Advanced Placement Physics Curriculum. Units of study will include: kinematics, Newton's laws of motion, work, energy, power, systems of particles, linear momentum, circular motion and rotation, oscillations and gravitation, electrostatics, conductors, capacitors and dielectrics, electric circuits, magnetic fields and electromagnetism. This course differs significantly from a high school course with respect to the laboratory work done and the time and effort of the student outside of class. The expectation is that students take the AP exam at the end of this course.

Overland Science Program

Course Name	Grade Level	Credit	Course Length	Registration	Prerequisite	Course Description
AP Environmental Science (W)	12	1 unit	1 year	Teacher Signature Required	1 year of Biology, 1 year of Chemistry AND Algebra 1, all with a "C" or higher	AP Environmental Science is designed to be the equivalent of a college introductory Environmental Science course. Units of study include: earth science concepts, the atmosphere, global water resources and use, soil and soil dynamics, ecosystem structure, energy flow, global water resources and use, soil and soil dynamics, ecosystem structure, energy flow, ecosystem diversity, natural ecosystem change, and natural biogeochemical cycles. This course differs significantly from a high school course with respect to the laboratory work done and the time and effort of the student outside of class. The expectation is that students take the AP exam at the end of this course. College credit and placement are awarded by individual universities based on the student's performance on the national AP Environmental Science exam. Students are encouraged to purchase a college text for the course.
AP Chemistry (W)	12	1 unit	1 year	Teacher Signature Required	1 year of Chemistry AND Algebra 2 both with a "C" or higher	AP Chemistry is a year-long course designed to be the equivalent of a college freshman level chemistry course. The fundamental assumptions and structure of chemistry are rigorously studied with emphasis on the quantitative aspects of chemical systems. Extensive laboratory work is an integral part of the curriculum. Units of study include: atomic theory and atomic structure, chemical bonding, nuclear chemistry, gases, liquids and solids, solutions, reaction types, stoichiometry, equilibrium, kinetics, thermodynamics and descriptive chemistry. This course differs significantly from a high school course with respect to the laboratory work done and the time and effort of the student outside of class. The expectation is that students take the AP exam at the end of this course. Students are encouraged to purchase a college text for the course.
Anatomy & Physiology (CE)  IST	12	1 unit	1 year	Teacher Signature Required	Biology AND Chemistry both with a "C" or higher	Anatomy/Physiology is a college level class that covers the structure and function of the human body. Students learn about cells and tissues, cancer and disease, the skeletal, muscular, nervous, and cardiovascular systems, and other systems of the human body. This course involves lecture and lab work. Every student must complete a semester enrichment project for four hours outside of class time. Most students taking this class are interested in a health/medical career. Students must have passed biology with a minimum of a C grade both semesters and have taken will be taking chemistry. Students will need to purchase a textbook for this class. This course is a Concurrent Enrollment course through the Community College of Aurora. Students enrolled in this course will complete college-level work during their junior and senior years of high school. Students who have met the prerequisite and earn a C or better in the class will receive 4 college credits.
Biotechnology (CE)  IST	12	1 unit	1 year	Teacher Signature Required	Biology with a "C" or higher	This course introduces students to one of the fastest growing career fields today. Biotechnology is the application of biological principles, organisms, and products for a practical purpose. This course introduces students to the tools of biotechnology - DNA electrophoresis, DNA sequencing, recombinant DNA technology, genetic engineering, and tissue culture. Students will explore cell biology, molecular biology, genetics, and microorganisms in depth. Students must have passed biology with a minimum of a C grade both semesters and have taken or are currently taking chemistry. Students should purchase a lab notebook for this course from the teacher. This course is a Concurrent Enrollment course through the Community College of Aurora. Students enrolled in this course will complete college-level work during their senior year of high school. Students who have met the prerequisite and earn a C or better in the class will receive 3 college credits.
Applied Science Research and Communication IST	10-11	Elective 1 unit	1 year	Teacher Signature Required	Introduction to Science Research	In this course students will combine biological science and research with technical communication and video production to produce narrative videos and supporting social media to help educate peers about specific public health issues. During the course students will engage in research and laboratory experiences about specific public health issues, and have multiple opportunities to interview professional researchers in the research field. Using what they learn, students will then write and produce videos and supporting social media items to help raise awareness with the goal of changing peers' behavior to improve overall health. In the final stages of the course students will disseminate the videos to peer audiences, and measure the efficacy of their messages. Each year of the course will focus on a particular public health issue.
Astronomy	12	Elective 1/2 unit	1 semester	Teacher Signature Required	Algebra 1 AND 1 year of a lab science	This course introduces students to the study of astronomy, including its history and development. It is designed to give the student a greater appreciation for one of the most rapidly changing realms of science. Topics will include: historical astronomy, astronomical instruments and their use, celestial orientation, the solar system, stars and galaxies. This course will investigate the current research including spectroscopic analysis and the evidence for an expanding universe. Major constellations, with their associated stars and mythologies, will also be described throughout the semester. This course will require individual outside observation and measurement.

Overland Science Program

Course Name	Grade Level	Credit	Course Length	Registration	Prerequisite	Course Description
Environmental Science	12	Elective 1/2 unit	1 semester	Teacher Signature Required	None	This is a course focusing on the relationships between humans and the natural resources provided to us. This course will investigate how energy and materials supplied to us by our environment are utilized by humans and to what effect these uses have on our surroundings, to identify, analyze, and resolve environmental issues from an interdisciplinary perspective. This course will stress scientific literacy through application of problem-solving skills while encouraging reflection in the social sciences to broaden student perception of their role in the environment.
Epic Medical Careers <div>IST</div>	11-12	Elective 1/2 unit	1 semester	Teacher Signature Required	None	Epic Medical Careers is a seminar-based course designed to expose students to the exciting and diverse world of medicine. This class is available for highly-motivated juniors and seniors who hope to pursue a career in healthcare. Students will hear from a different guest speaker each class from a variety of medical careers including cardiology, nursing, genetic counseling, osteopathy, reserch, surgery, healthcare management, and oncology. Students will get to attend an interactive cadaver lab. Note: Class meets before school.
Forensic Science <div>IST</div>	9-11	Elective 1/2 unit	1 semester	Teacher Signature Required	None	Forensic Science is the application of science to those criminal and civil laws that are enforced by police agencies. It is a practice that incorporates Biology, Chemistry, Entomology, Earth Science, Physics, Anatomy and Physiology, as well as other areas of science and technology. Observational Skills, Investigation and Evidence Collection, Trace Evidence (Hair, pollen, fibers, glass), Fingerprinting, DNA Analysis, Blood Pattern Analysis, Document Analysis, and Ballistics will be among the specific areas studied. Note: This course will NOT substitute for core science credit at this time.
Genetics	12	Elective 1/2 unit	1 semester	Teacher Signature Required	Successful completion of 2 years of Science	Genetics is a lab-based course designed to teach the student fundamental genetics concepts and provide an understanding of their connection to the world around them. In this course, students will study the cell, cell processes and genetics. Specifically, students investigate the cellular basis of inheritance, patterns of inheritance, DNA, human genetics, and modern applications of DNA technology. Math and reading levels are also accessible for students of ALL levels.
Geology	9-12	1/2 unit	1 semester	Counselor Signature Required	None	Geology will examine the earth as a dynamic system. Students will examine processes for and evidence of how the earth renews itself, including weathering , erosion, and plate tectonics. Students will also learn about the costs, benefits and consequences of using energy resources. Students will perform labs at home with equipment provided.
Geology (CE) <div>CETE</div>	12	Elective 1 unit	1 Year	Teacher Signature Required	Successful completion of 2 years of Science	This course examines the physical and historical geology of the earth with an emphasis on natural resources. Topics studied will include rock and mineral identification through physical and chemical techniques, plate tectonics and landforms, and mass wasting. This course is a Concurrent Enrollment course through the Community College of Aurora. Students enrolled in this course will complete college-level work. Students who have met the prerequisite and earn a C or better in the class will receive 4 college credits.
Introduction to Science Research	9-11	Elective 1 unit	1 year	None	Instructor Approval	This course is designed to introduce students to scientific research. Students will be introduced to and solidify their understanding of the scientific method and engineering design process, learn how to access and analyze scientific literature at a variety of levels, and use a laboratory notebook to document progress, record findings, and organize research. The scientific writing process will be introduced as students prepare and critique one another's manuscripts. Students will present their findings around one of several ongoing research projects to their peers during an in-class seminar series and through a public poster session. This course may be retaken to receive the course credit. Note: This course will NOT substitute for core science credit.
Microbiology	10-12	Elective 1/2 unit	1 semester	Teacher Signature Required	Biology with a "C" or higher AND Chemistry (may be taken concurrently)	Microbiology is the study of single-celled organisms, such as bacteria, viruses, fungi and protists. Students will study the structure, function and identification of these microbes. Lab work includes growing microbes and using the microscope to identify them. This course also includes the study of diseases and the environmental and public health impacts caused by microorganisms.
Biology (Online)	9-12	1 unit	1 year	Counselor Signature Required	None	Biology is an ecological approach to the study of life science. Students will discover the interrelationships between organisms and the environment, how organisms are classified, and mechanisms for adaptations that lead to biodiversity. Students will perform simulations and labs at home with equipment provided.

World Languages

The Overland-Prairie World Languages Department offers a wide selection of courses designed to advance the interests and abilities of all students. Students learn to communicate in one of the four languages our department offers and are empowered to apply academic skills in their course work. It is the Campus' expectation that students will be prepared for college and the workforce. Students gain knowledge and understanding of other cultures, connect with other disciplines within the school, gain insight into the nature of language and culture, and participate in multilingual communities at home and around the world. Our department's ultimate goal is to enable students to know how, when, and why to say what to whom, as stated in the National Standards for Foreign Language Learning.

The French, Spanish, and Chinese programs include four levels of instruction in addition to Advanced Placement classes. Spanish also offers a course for heritage language learners to meet the needs of Overland High School's international student body for those students who are already proficient in Spanish. Our Arabic program currently offers levels 1, 2 and 3.

6th Grade	7th Grade	8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
	Arabic 1		Arabic 1			
			Arabic 2			
			Arabic 3			
				Arabic 4 Honors (W)		
		Chinese 1				
			Chinese 1			
			Chinese 2			
				Chinese 3		
					Chinese 4 Honors (W)	
		AP Chinese Language and Culture (W)				
			French 1			
				French 2		
					French 3	
						French 4 Honors
						AP French Language & Culture (W)
Spanish Language Exploratory	Spanish 1A	Spanish 1	Spanish 1			
	Spanish AB	Spanish 2	Spanish 2			
			Spanish 3			
		Spanish for Spanish Speakers				
			Spanish 4 Honors (W)			
		AP Spanish Language & Culture (W)				
				AP Spanish Literture & Culture (W)		
		<div>*Each Spanish student will be placed according to their previous experience with the language or a placement exam.</div>				
Spanish Access WL Classes						
Spanish for Spanish Speakers						

Prairie World Languages Program

Course Name	Grade Level	Credit	Course Length	Registration	Prerequisite	Course Description
Spanish Language Exploratory	6	N/A	1 semester	No Signature Required	None	Students explore the Spanish language by learning basic skills needed to communicate in a foreign language. Students are exposed to introductory phrases, vocabulary, concepts and a variety of Hispanic culture. These basics of the Spanish language and cultural awareness provide a foundation for future language acquisition.
Spanish 1A	7	N/A	1 year	No Signature Required	None	This course introduces basic skills in listening, speaking, reading, and writing Spanish with an emphasis on communication.
Spanish AB	7	N/A	1 year	Teacher Signature Required	Exploratory Spanish	This course is a continuation of Spanish 1A in which students are provided additional communication learning opportunities.
Spanish 1	8	N/A	1 year	No Signature Required	Completion of Exploratory Spanish	Spanish 1 introduces students to the Spanish language and Hispanic culture. This course is an introduction to the basic language skills of listening, speaking, reading, and writing.
Spanish 2	8	N/A	1 year	Teacher Signature Required	Completion of Spanish AB	This course is a continuation of Spanish 1. Emphasis is on the further development of listening, speaking, reading, and writing for communication. Hispanic cultural aspects continue to be an integral part of the curriculum.
Spanish for the Spanish Speaker	8	N/A	1 year	Teacher Signature Required	Placement Test Required	This course prepares native speakers for Advanced Placement courses in Spanish. It is designed for students with a personal connection to the language and culture who converse with ease and confidence about topics related to Latino culture and daily life. The focus is on vocabulary development, grammar structures and functions, and literacy skills. Students further develop writing skills through creative projects. This course is conducted primarily in Spanish. Students may be required to purchase a workbook for this course.
Arabic 1	7-8	N/A	1 year	No Signature Required	None	Students taking this course learn to pronounce and write the Arabic alphabet. They will read both printed and hand written letters and numbers for comprehension. Students will acquire a 250 word vocabulary as well as learn to conjugate verbs. Students are exposed to the cultural geography of Arabic-speaking countries.
Chinese 1	8	N/A	1 year	No Signature Required	None	Students taking this course learn the basic language skills of Mandarin Chinese by listening, speaking, reading, writing, and memorizing. Emphasis is on phonetics, listening comprehension and oral proficiency, as well as formation of Chinese characters and basic grammatical structures. Students are exposed to the cultural geography of China.

Overland World Languages Program

Course Name	Grade Level	Credit	Course Length	Registration	Prerequisite	Course Description
Arabic 1	9-12	1 unit	1 year	No Signature Required	None	Students taking this course learn to pronounce and write the Arabic alphabet. They will read both printed and hand written letters and numbers for comprehension. Students will acquire a 250 word vocabulary as well as learn to conjugate verbs. Students are exposed to the cultural geography of Arabic-speaking countries.
Arabic 2	9-12	1 unit	1 year	Teacher Signature Required	Completion of Arabic 1 OR teacher approval	This is a continuation of Arabic 1. Emphasis is placed on the progressive development of listening, speaking, reading, and writing skills. Students comprehend and respond with increasing proficiency to spoken and written Arabic. Students will gain an awareness of appropriate cultural behaviors and contributions of the Arabic culture to Western culture.
Arabic 3	9-12	1 unit	1 year	Teacher Signature Required	Completion of Arabic 2 OR teacher approval	This course expands upon the fundamentals skills of listening, speaking, reading and writing learned by the end of Arabic 2. Students listen to and read authentic source materials. Class activities such as intermediate listening selections and conversations incorporate the continued study of grammar through written communication. Students learn that understanding Arabic culture is part of authentic communication. This course is conducted primarily in Arabic.

Overland World Languages Program

Course Name	Grade Level	Credit	Course Length	Registration	Prerequisite	Course Description
Arabic 4 Honors (W)	10-12	1 unit	1 year	Teacher Signature Required	Completion of Arabic 3 OR teacher approval	This course is designed to develop more fluency in speaking and writing, and increase understanding in listening and reading. It includes a study of Arab culture and its contribution to the arts and humanities. Activities include reading the major authors, texts and movements in modern Arabic literature. Using the texts as a point of departure, students will discuss intellectual, political and cultural thought as it develops in Arabic literature to the present day. Students will be responsible for oral presentations and short essays in addition to two research papers during the term. This course is conducted primarily in Arabic. Students may be required to purchase a workbook for this course.
Chinese 1	9-12	1 unit	1 year	No Signature Required	None	Students taking this course learn the basic language skills of Mandarin Chinese by listening, speaking, reading, and writing. Emphasis is on phonetics, listening comprehension and oral proficiency, as well as formation of Chinese characters and basic grammatical structures. Students are exposed to the cultural geography of China.
Chinese 2	9-12	1 unit	1 year	Teacher Signature Required	Completion of Chinese 1 OR teacher approval	This is a continuation of Chinese 1. Emphasis is placed on learning basic language skills of Mandarin Chinese by listening, speaking, reading, and writing. Some of the more complicated grammatical points are learned at this level. Continued vocabulary building and cultural study are important components of this course.
Chinese 3	10-12	1 unit	1 year	Teacher Signature Required	Completion of Chinese 2 OR teacher approval	This is a continuation of Chinese 2. Speaking and interpretive comprehension are emphasized in a step-by-step approach. Students use a varied selection of characters, sentence patterns, and vivid illustrations to engage in conversations. Students explore highly-relevant topics such as family, daily life, school, and sports while incorporating useful vocabulary.
Chinese 4 Honors (W)	11-12	1 unit	1 year	Teacher Signature Required	Completion of Chinese 3 OR teacher approval	Chinese 4 Honors is designed to develop greater fluency in speaking and writing, and to increase listening and reading comprehension. It includes an in-depth study of Chinese life and cultures. This course is conducted primarily in Chinese.
AP Chinese Language & Culture (W)	11-12	1 unit	1 year	Teacher Signature Required	Completion of Chinese 4 OR teacher approval	Students will further their study of the Chinese language and culture to prepare for the AP exam in May. Emphasis is on interpersonal skills, interpretation of spoken and written Chinese, and a knowledge of Chinese culture. The expectation is that students take the AP exam at the end of this course.
French 1	9-12	1 unit	1 year	No Signature Required	None	French 1 introduces students to the French language and Francophone cultures. This course is an introduction to the basic language skills of listening, speaking, reading, and writing. It is designed for students who have not taken French. The course will meet both the district framework and state standards for world languages.
French 2	9-12	1 unit	1 year	Teacher Signature Required	Completion of French 1 at the high school OR middle school level	This is a continuation of French 1. Emphasis is on the further development of listening, speaking, reading, and writing for communication. Francophone cultural aspects are an integral part of the curriculum.
French 3	9-12	1 unit	1 year	Teacher Signature Required	Completion of French 2 OR teacher approval	French 3 continues to develop the language skills of listening, speaking, reading, and writing. Complex grammar is taught. Students read authentic materials and study details of Francophone life and culture. This course is conducted primarily in French.
French 4 Honors (W)	10-12	1 unit	1 year	Teacher Signature Required	Completion of French 3 OR teacher approval	French 4 Honors is designed to develop greater fluency in speaking and writing, and to increase listening and reading comprehension. It includes an in-depth study of Francophone life and cultures. Students read selections from various French authors. This course is conducted primarily in French.
AP French Language & Culture (W)	11-12	1 unit	1 year	Teacher Signature Required	Completion of French 4 OR teacher approval	The learning objectives for this course include interpersonal, presentational, and interpretive communication. Students are prepared for the Advanced Placement Language and Culture Exam. Six main themes: beauty and aesthetics, contemporary life, families and communities, global challenges, personal and public identities, and science and technology are explored throughout the year. This course is conducted in French. Students may be required to purchase a college text for the course. The expectation is that students take the AP exam at the end of this course.

Overland World Languages Program

Course Name	Grade Level	Credit	Course Length	Registration	Prerequisite	Course Description
Spanish 1	9-12	1 unit	1 year	No Signature Required	None	Spanish 1 introduces students to the Spanish language and Hispanic cultures. This course is an introduction to the basic language skills of listening, speaking, reading, and writing. It is designed for students who have not taken Spanish. The course will meet both the district framework and state standards for world languages.
Spanish 2	9-12	1 unit	1 year	Teacher Signature Required	Completion of Spanish 1 at the high school OR middle school level	This is a continuation of the Spanish 1. Emphasis is on the further development of listening, speaking, reading and writing. Hispanic culture aspects continue to be an integral part of the curriculum.
Spanish 3	9-12	1 unit	1 year	Teacher Signature Required	Completion of Spanish 2 OR teacher approval	Spanish 3 continues to develop the language skills of listening, speaking, reading and writing. Complex grammar is taught. Students read authentic materials and study details of Hispanic life and culture. This course is conducted primarily in Spanish.
Spanish for Spanish Speakers	9-12	1 unit	1 year	Teacher Signature and Placement Test Required	Placement Test Required	This course prepares native speakers for Advanced Placement courses in Spanish. It is designed for students with a personal connection to the language and culture who converse with ease and confidence about topics related to Latino culture and daily life. The focus is on vocabulary development, grammar structures and functions, and literacy skills. Students further develop writing skills through creative projects. This course is conducted primarily in Spanish. Students may be required to purchase a workbook for this course.
Spanish 4 Honors (W)	10-12	1 unit	1 year	Teacher Signature Required	Completion of Spanish 3 OR Teacher Approval OR Spanish for Native Speakers	This course is designed to prepare students for the AP Spanish Language course. Students develop communicative strategies while expanding upon their skills. Students continue to learn about the Hispanic culture through arts and humanities. This course is conducted primarily in Spanish.
AP Spanish Language and Culture (W)	10-12	1 unit	1 year	Teacher Signature Required	Completion of Spanish 4 OR teacher approval	The learning objectives for this course include interpersonal, presentational and interpretive communication. Students are prepared for the Advanced Placement Language and Culture Exam. Six main themes: beauty and aesthetics, contemporize life, families and communities, global challenges, personal and public identities, and science and technology are explored throughout the year. This course is conducted in Spanish. Students may be required to purchase a college text for the course. The expectation is that students take the AP exam at the end of this course.
AP Spanish Literature and Culture (W)	11-12	1 unit	1 year	Teacher Signature Required	Completion of AP Spanish Lang OR teacher approval	The AP Spanish Literature course is designed to meet the requirements of a third-year college introduction to Hispanic Literature class. This course is conducted in Spanish. Readings include works from seven centuries of Hispanic Literature. The list was created by the College Board to ensure that all significant genres, literary periods and geographical areas are included in the course of study. Students may be required to purchase a college text for the course. The expectation is that students take the AP exam at the end of this course.

English Language Support (ELS)

English Language Acquisition (ELS) is a program designed to teach students who speak languages other than English how to understand, speak, read, and write in English. The goal is for English language learners to experience success in the mainstream content areas while also learning English. While students are learning English, they are also learning math, science, social studies and other subjects in the school curriculum. Prairie and Overland students taking ELS classes also take math, science, social studies, electives, world languages, and other English classes. Prairie Middle School and Overland High School offer a variety of ELS, sheltered, and co-taught classes for English language learners depending on their English language acquisition level. Teachers in ELS are proficient in the English language and are specifically trained to teach students who are learning English. While each student's level of support will be based on their individual needs, the ELS program provides support to students within the context of the mainstream English classroom. Those supports include instructional strategies, lesson delivery, and assessments that are designed based on the student's level of English proficiency. While in ELS classes, English Language Learners have access to available programs offered at Prairie and Overland or within the district. * *Classes are based upon enrollment and may be subject to change.*

ELS at the Overland-Prairie Campus strives to ensure students achieve standards of English proficiency and are college-prepared and workforce-ready. A series of ELS courses are offered that enable students to advance and meet their individual potential.

6th Grade	7th Grade	8th Grade	9th Grade	10th Grade	11th Grade	12th Grade	
ELS Newcomer	ELS Newcomer	ELS Newcomer	ELS Co-Taught English 9	ELS Co-Taught English 10	ELS Co-Taught English 11	ELS Co-Taught English 12	
ELS Co-Taught Science		ELS Co-Taught Science	ELS Intake				
ELS CO-Taught Social Studies	ELS Co-Taught Social Studies	ELS Co-Taught Social Studies	Newcomer English Language Support				
		ELS Co-Taught Language Arts		ELS Co-Taught Government			
				ELS Co-Taught Economics			
						ELS Co-Taught U.S. History	
						ELS Co-Taught Sociology	
						ELS Co-Taught Psychology	
			ELS Co-Taught Geometry				
		ELS Co-Taught Algebra 1					
		Prairie Access ELS Electives:		ELS Co-Taught Biology			
		ELS Reading			ELS Co-Taught Chemistry		

Prairie English Language Support (ELS) Program

Course Name	Grade Level	Credit	Course Length	Registration	Prerequisite	Course Description
ELS Newcomer	6-8	N/A	1 year	No Signature Required	Instructor Approval	This course is a beginning level language arts class, reserved for students whose native language is not English and who lack English language fluency. The emphasis is on the reading, writing, speaking, and listening proficiencies necessary for success in mainstream classes.
ELS Co-Taught Language Arts	8	N/A	1 year	No Signature Required	Instructor Approval	Grade level support provided in a teamed setting with an English Language Support Teacher and a Highly Qualified content Teacher.
ELS Co-Taught Social Studies	6-8	N/A	1 year	No Signature Required	Instructor Approval	Grade level support provided in a teamed setting with an English Language Support Teacher and a Highly Qualified content Teacher.
ELS Co-Taught Science	6,8	N/A	1 year	No Signature Required	Instructor Approval	Grade level support provided in a teamed setting with an English Language Support Teacher and a Highly Qualified content Teacher.

Overland English Language Support (ELS) Program

Course Name	Grade Level	Credit	Course Length	Registration	Prerequisite	Course Description
ELS Intake	9-12	1 unit	1 year	Teacher Signature Required	None	The ELS Intake class is for monolinguals and those who may have had interrupted schooling in their home country. The students will be taught English listening, speaking, reading readiness, and writing skills through appropriate ELS strategies: total physical response, cooperative learning, paired and individual activities, etc. Students are introduced to the vocabulary necessary to be successful in ELS Biology, Government and US History
Newcomer English Language Support	9-12	1 unit	1 year	Teacher Signature Required	Instructor Approval	In this course, students are introduced to basic reading and writing skills. The class is designed to allow for remediation of individual reading and writing problems. This focus is on literacy skills needed to be successful in mainstream English classes.
ELS Co-Taught Biology	9-10	1 unit	1 year	Teacher Signature Required	Instructor Approval	Students learn about organisms from a behavioral, ecological, genetic and evolutionary context. Students will explore how living systems interact with other organisms and their environment, analyze relationships between structure and function in living systems, analyze how organisms grow, develop and differentiate during their lifetimes, and use genetics to explain the biodiversity and the relatedness of all organisms. Units of study include: ecology, chemistry of life, cellular structure and function, genetics, and evolution. Laboratory activities reinforce concepts and principles presented. An ELS teacher will be in class to lend support to students whose native language is other than English.
ELS Co-Taught Chemistry	10-11	1 unit	1 year	Teacher Signature Required	Instructor Approval	This course provides the opportunity to develop knowledge and understanding about the relationships between the structure and properties of matter, and the interaction of mass and energy. Units of study include: matter and its changes, atomic structure, chemical composition, nomenclature, reactions, stoichiometry, gas laws, periodicity, bonding, molar geometry, and thermochemistry. Laboratory activities reinforce concepts and principles presented in this course. This class teaches students fundamental chemical concepts and an understanding of the connection to the world around them. This curriculum incorporates technical reading and writing skills in alignment with the Colorado State Standards. An ELS teacher will be in class to lend support to students whose native language is other than English.
ELS Co-Taught U.S. History	11-12	1 unit	1 year	Teacher Signature Required	Instructor Approval	This course is designed to explore America's historical development from the Reconstruction Era to the present day. Students will acquire a sense of chronology, identify causes and effects, recognize the events, individuals, and philosophies that helped shape our contemporary society, and use historical inquiry to evaluate prominent episodes in U.S. history. Some major topics include social and ethnic development, Industrialization, the World Wars, the Depression, the Cold War Era, the Vietnam Era, the 1960's and 70's, and the developments of the 1980's and early 1990's. This course meets U.S. History requirement. An ELS teacher will be in class to lend support to students whose native language is other than English.

Overland English Language Support (ELS) Program

ELS Co-Taught Government	10-11	1/2 unit	1 semester	Teacher Signature Required	Instructor Approval	A state-required, semester-long course designed to introduce students to the Constitutional principles of the United States republican form of government and how to apply this constitutional knowledge to form an understanding of government. Students will also examine current U.S. policies, citizen rights and the means to participate within government, as well as the relationships on the local, state, national and international level. This course is designed to address state standards in Government and Civics. An ELS teacher will be in class to lend support to students whose native language is other than English.
ELS Co-Taught Economics	10-11	1/2 unit	1 semester	Teacher Signature Required	Instructor Approval	Current economic issues will serve as a foundation for the application of economic theory in this semester course. Analysis of the American economic system as it relates to the individual and other economic systems will be a focus. Specific units will cover microeconomic concepts such as the law of supply and demand, factors of production, and the business cycle. Macroeconomic topics will include money and banking, monetary and fiscal policy, international trade, the impact of globalization and Personal Financial Literacy. An ELS teacher will be in class to lend support to students whose native language is other than English.
ELS Co-Taught Psychology	12	1/2 unit	1 semester	Teacher Signature Required	Instructor Approval	The study of human behavior. This semester long course is designed to introduce students to the basic principles of psychology and how it applies individually and in our society. Topics will include developmental psychology, learning principles and applications, personality theory, the brain, and mental disorders. The goals of the course are to provide information that students can use in their everyday life, as well as to provide a foundation in the field of psychology. An ELS teacher will be in class to lend support to students whose native language is other than English.
ELS Co-Taught Sociology	12	1/2 unit	1 semester	Teacher Signature Required	Instructor Approval	An in-depth look at local, national, and international current events that affect everyday life in America. Using a variety of techniques such as discussion, news media, guest speakers, and research, students are exposed to the issues and developments that impact our society. The goal of the course is to stimulate interest in national and international affairs and thus motivate the student to become more actively involved in the contemporary issues of our society. An ELS teacher will be in class to lend support to students whose native language is other than English.
ELS Co-Taught Algebra 1	9-10	1 unit	1 year	Teacher Signature Required	Instructor Approval	Students taking this course should have mastered all basic arithmetic skills. Topics covered include sets, the real number system and its properties, operations with polynomials, linear equations, inequalities, systems of equations, factoring polynomials, graphing, radicals, and quadratic equations. This course provides required background necessary for the successful completion of Geometry and Algebra 2. Problem solving is emphasized and students use current technology including graphing calculators and computers. An ELS teacher will be in class to lend support to students whose native language is other than English.
ELS Co-Taught Geometry	10-11	1 unit	1 year	Teacher Signature Required	Instructor Approval	This course is the second year of the sequence of Algebra 1, Geometry, and Algebra 2. Topics include reasoning and proof, perpendicular and parallel lines, triangles, quadrilaterals, similarity, right triangle trigonometry, circles, area, and volume. It offers students many opportunities to explore geometric situations, develop concepts, and use theorems and postulates to solve applications. Students are required to communicate reasoning through proofs and other forms of writing. The course provides extensive use of algebra skills integrated into geometry concepts. An ELS teacher will be in class to lend support to students whose native language is other than English.
ELS Co-Taught English 9	9	1 unit	1 year	Teacher Signature Required	Instructor Approval	Students will prepare oral presentations and develop strategies for listening critically to the presentations of others. Reading: Students will read and interpret increasingly complex literary and informational texts. Writing: Students will write narrative, informational, and persuasive texts and work to establish a controlling idea and provide relevant support. Students will work to revise grammar, usage, and mechanics to achieve greater clarity. Research: Students will analyze informational materials, including electronic sources, for their relevance and accuracy. An ELS teacher will be in class to lend support to students whose native language is other than English.

Overland English Language Support (ELS) Program

ELS Co-Taught English 10	10	1 unit	1 year	Teacher Signature Required	Instructor Approval	Oral Expression: Students will gather and organize content that will successfully influence an audience. Students will listen actively to group members when accomplishing a group goal. Reading: Students will read literary, informational, and persuasive manuscripts in order to develop ideas and to understand traditional and contemporary texts. Writing: Students will use different organizational patterns to inform or to persuade, and their writing will feature a variety of stylistic devices while relying on a strong foundation of proper grammar and mechanic skills. Research: Students will evaluate the validity of multiple sources while collecting information in order to answer a question, propose solutions, or share findings. An ELS teacher will be in class to lend support to students whose native language is other than English.
ELS Co-Taught English 11	11	1 unit	1 year	Teacher Signature Required	Instructor Approval	Oral Expression: Students will analyze messages for their accuracy and relevance. Reading: Students will critically read complex literary texts to interpret and evaluate their meaning. They will synthesize ideas from informational texts for a specific purpose. Writing: Students will work to stylistically and thematically refine narrative texts. They will revise informational and persuasive texts to inform or influence an audience while making ongoing revisions in grammar, usage, and mechanics to achieve greater clarity. Research: Students will study critical thinking and evaluate quality reasoning. An ELS teacher will be in class to lend support to students whose native language is other than English.
ELS Co-Taught English 12	12	1 unit	1 year	Teacher Signature Required	Instructor Approval	Oral Expression: Students will analyze messages for their accuracy and relevance. Reading: Students will critically read complex literary texts to interpret and evaluate their meaning. They will synthesize ideas from informational texts for a specific purpose. Writing: Students will work to stylistically and thematically refine narrative texts. They will revise informational and persuasive texts to inform or influence an audience while making ongoing revisions in grammar, usage, and mechanics to achieve greater clarity. Research: Students will study critical thinking and evaluate quality reasoning. An ELS teacher will be in class to lend support to students whose native language is other than English.

Performing Arts

The Performing Arts Department offers a selection of courses designed to advance the interests and abilities of all students. Arts education is essential to each person's development. It is a principle means for helping students discover beauty and joy in life.

It is the Overland-Prairie Campus belief that, "The Arts Make a Difference!" To ensure this, our focus is cultivating personal expression and for fostering creative potential. As a result of participation in the Arts, students discover our shared cultural heritage and prepare for meaningful lifelong activities while contributing to our school and community.

The Arts not only provide for the artistic development of students, but also provide exciting and creative learning potentials, collaborative and critical thinking skills, and opportunities for students to prepare for college and a global workforce. Research shows that a long-term participation in the Arts improves all test scores (especially Math & Reading) and also helps foster self-confidence. Considering the many benefits of an Arts education, participation in one or more areas of Overland's diverse and dynamic Arts Program should be an integral part of the course of study for all students wanting a well-rounded educational experience. Most colleges and universities offer generous scholarships for students who have shown a high level of achievement in any of the Arts. The Arts at the Overland-Prairie Campus will make a difference in your life!

6th Grade	7th Grade and 8th Grade		9th Grade	10th Grade	11th Grade	12th Grade
Band 6,7, 8 (Beginning Band)			Concert Band			
	Band II	Band III	Marching Band / Wind Ensemble/ Symphonic Band			
	Jazz Hawks (Audition Only)		Jazz Band			
Strings 6, 7, 8 (Beginning Orchestra)			Concert Orchestra			
	Intermediate Orchestra 7	Concert Orchestra 8		Overland Symphony		
			String Orchestra			
	Chamber Orchestra (Audition Only)		Choralaires			
Music 6	Music 7	Music 8	Overland Singers			
			Plainsmen			
				Cecilian Singers		
				Jewell Avenue Jazz Choir		
				Nine-Mile Jazz Choir		
				Trebelaires		
Choir 6			Introduction to Theatre			
	Choir 7 Women's/Choir 7 Men's	Choir 8 Women's/Choir 8 Men's	Technical Theatre			
				Acting 1		
				Acting 2		
	Prairie Voices (Audition Only)	Advanced Acting				
Drama 6	Drama 7	Drama 8	AP Music Theory (W)			
	Drama Production		Piano			
			Music Theory			

Prairie Performing Arts Program

Course Name	Grade Level	Credit	Course Length	Registration	Prerequisite	Course Description
Band (Beginning)	6-8	N/A	1 year	No Signature Required	None	Band is a year-long course in which students will learn to read music and play a flute, clarinet, trumpet, french horn, trombone, euphonium, or tuba. A limited number of oboe, saxophone, and percussion spots may be available based on auditions during this course. Students may either provide their own instrument or rent one from the school for a \$40.00 fee. A \$10 method book is also required and students' grades will include performing at evening concerts.
Band II	7	N/A	1 year	Teacher Signature Required	Minimum 1 Year Playing Experience	Band II is a year-long course for students planning to continue their chosen instrument from 6th Grade Band. Students may either provide their own instrument or rent one from the school for a \$40 fee. Students' grades will include performing at evening concerts.
Band III	8	N/A	1 Year	Teacher Signature Required	Minimum 1 Year Playing Experience	Band III is a year-long course for students planning to continue their chosen instrument from either Band 7 or Band II. Students may either provide their own instrument or rent one from the school for a \$40 fee. Students' grades will include performing at evening concerts including combined performances with Overland High School.
Jazz Hawks	7-8	N/A	1 year	Teacher Signature Required	Audition	Students must be enrolled in a band class (or possibly orchestra for rhythm section players) in order to participate in Jazz Hawks. The required audition will take place during second semester for each following year, but students may transfer in with a scheduled audition mid-year in certain cases. Student work will focus on playing a variety of styles consistent with traditional jazz ensembles as well as learning and practicing jazz improvisation. Several evening concerts will be required throughout the year.
Strings (Beginning Orchestra)	6-8	NA	1 Year	No Signature Required	None	Strings (Beginning Orchestra) is a year-long course for students who want to learn and play one of the stringed instruments (violin, viola, cello or bass). Little or no experience is required, as the class will start with the basic fundamentals of reading music and instrument playing. Students may either provide their own instrument or rent one from the school for a \$40 fee. A \$10 method book is also required. Class expectations include regular home practice, daily class participation and attendance at evening concert performances.
Intermediate Orchestra 7	7	NA	1 Year	Teacher Signature Required	Minimum 1 year playing experience	Intermediate Orchestra 7 is a year-long course, open to students who have one or more years of playing experience. As a continuation of Strings 6 (Beginning Orchestra), students will be building upon previous skills to strengthen their fundamentals. Students may either provide their own instrument or rent one from the school for a \$40 fee. A \$10 method book is also required. Class expectations include regular home practice, class participation and attendance at evening concert performances.
Concert Orchestra 8	8	NA	1 Year	Teacher Signature Required	Minimum 1-2 years playing experience	Concert Orchestra 8 is a year-long course, open to students who have one or more years of playing experience. It is a continuation of Concert Intermediate Orchestra 7. Students will be building upon previous skills to strengthen their fundamentals and prepare for high school orchestras. Students may either provide their own instrument or rent one from the school for a \$40 fee. A \$10 method book is also required. Class expectations include regular home practice, class participation and attendance at evening concert performances.
Chamber Orchestra	7-8	NA	1 Year	Teacher Signature Required	Audition required AND a member of the Concert Orchestra	The Chamber Orchestra is an advanced, auditioned ensemble, consisting of 7th & 8th grade students concurrently enrolled in Concert Orchestra. The class allows advanced string students and piano players to increase their playing skills and be challenged musically through a more rigorously repertoire. Class expectations include regularly home practice, class participation and attendance at concert performances.
Music	6-8	N/A	1 semester	No Signature Required	None	Students will receive instruction in music and will practice with one or more of the following instruments: guitar, bass, drum set, auxiliary percussion, keyboards and voice.

Prairie Performing Arts Program

Choir 6	6	N/A	1 semester	No Signature Required	None	Students learn to sing at a beginning level. Proper vocal production, breath support and tone control are emphasized. Students will sing in unison, rounds, canon and in harmony. An opportunity will be available for students to explore music and its relationship to history, art and society in various cultures. Simple note reading is taught. Attendance at scheduled rehearsals and performances is mandatory. Concert attire is required. A nominal fee is required in this class to cover the use of school-owned class materials.
Choir 7 Women's/Choir 7 Men's	7	N/A	1 semester (may be repeated) or 1 year	No Signature Required	None	This class is for students who wish to pursue singing at a serious level. Careful attention is given to diction, phrasing, music reading, tone quality and rhythmic accuracy. Vocal technique is highly emphasized. Three- and four-part harmony is also emphasized. Choral literature from all periods and styles is included. Attendance at scheduled rehearsals and performances is mandatory. Concert attire is required. A nominal fee is required in this class to cover the use of school-owned class materials.
Choir 8 Women's/Choir 8 Men's	8	N/A	1 year	No Signature Required	None	This class is for students who wish to pursue singing at a serious level. Careful attention is given to diction, phrasing, music reading, tone quality and rhythmic accuracy. Vocal technique is highly emphasized. Three- and four-part harmony is also emphasized. Choral literature from all periods and styles is included. Attendance at scheduled rehearsals and performances is mandatory. Concert attire rental fee is required.
Prairie Voices	7-8	N/A	1 year	Teacher Signature Required	Audition	Prairie Voices is Prairie's premiere and most advanced vocal ensemble. This audition-only group meets during Access time and involves learning more advanced repertoire and skills as well as making multiple, outside-of-school, performances as Prairie's showcase choral group. Attendance at scheduled rehearsals and performances is mandatory. Concert attire rental fee is required.
Drama 6	6	N/A	1 semester	No Signature Required	None	This beginner's level class is designed for the new and growing actor. 6th grade students will develop and deepen their understanding of the craft of acting by making inferences and creating character objectives. Various acting styles are incorporated in this class including improvisation. Memorization and writing are required.
Drama 7	7	N/A	1 semester	No Signature Required	None	This rigorous class builds on the skills learned in 6th grade drama. Students continue to explore their own creativity through the exploration of objectives, playable actions, and physical/vocal characterization. It also includes the working of scenes from contemporary, classical, and student-composed work. Heavy memorization and writing are required.
Drama 8	8	N/A	1 semester	No Signature Required	None	As a follow-up to 6th and 7th grade theatre offerings, this course introduces students to the world of public speaking and "improv" in a comfortable classroom setting. Students will learn the nuances of delivering information and persuasive speeches or monologues. Also this course teaches the fundamentals of improvisation, improvisational choices and self-confidence through the use of theatre "handles" and exercises. Heavy memorization and heavy writing is required.
Drama Production	7-8	N/A	1 year	Teacher Signature Required	Audition	Drama Improvisation continues dramatic learning with involvement in one major play. Students will be involved in all aspects of a show; playwriting, acting, technical elements, and production. This course requires work outside of school time. Preference will be given to students who have completed other drama classes.

Overland Performing Arts Program

Course Name	Grade Level	Credit	Course Length	Registration	Prerequisite	Course Description
Concert Band	9-12	1 unit	1 year	No Signature Required	None	Concert Band is open to all beginning and intermediate students who play woodwind, brass or percussion instruments. No Audition is required. Students who do not wish to participate in marching band and want to play traditional concert band repertoire should join this class. Attendance at all performing events is required. Instrument Rental fee of \$60. Music material fee of \$20.
Wind Ensemble (2nd Semester)	9-12	1/2 unit	1 semester	Teacher Signature Required	Spring audition	This ensemble is open to students who audition in November. Students in Wind Ensemble play advanced literature and must have a concrete background in basic rhythm and note reading to be successful as there is one person on a part. Attendance at all performances is a requirement. Instrumental rental fee of \$60.
Jazz Band	9-12	1 unit	1 year	Teacher Signature Required	Spring audition and participation in a second ensemble	This jazz group further develops a student's interest in performance of jazz. The objective of this course is to develop skills in jazz creativity, improvisation, and exposure to a broad variety of jazz literature. Attendance at all performances is a required part of this class. Instrument rental fee of \$60.
Marching Band (1st Semester)	9-12	1/2 unit	1 semester	Teacher Signature Required	Summer Band Camp	The marching band performs at all home football games, pep rallies, and homecoming events. Attendance at band camp (usually scheduled in the middle of July) is mandatory for participation in the class. Attendance at all performing events is required. After the marching season has concluded, the band will perform traditional concert band literature. If a student participates in 2 years of Marching Band, they will be eligible to waive .5 credits of their PE requirement. Instrument rental fee of \$60, Marching Band fee of \$80. (fundraising opportunities are available.)
Symphonic Band	9-12	1/2 unit	1 semester	Teacher Signature Required	Spring Audition	This ensemble is open to students who audition in November. Students in Symphony Band play high school literature with several musicians on a part. Students will focus on note and rhythmic reading. Attendance at all performances is a requirement. Instrumental rental fee \$60. Music material fee of \$20.
Concert Orchestra	9-12	1 unit	1 year	Teacher Signature Required	Teacher recommendation or 2 years of previous orchestra experience	Concert Orchestra is designed to acquaint continuing string students with the many phases and aspects of orchestral literature and performance. This includes exploring wide range of repertoire and string playing techniques. This course may require rehearsal time outside of class. Attendance at all performances is a required part of this class. \$20.00 Music Materials Fee, \$60.00 School Instrument Rental Fee (fundraising opportunities available)
Overland Symphony	10-12	1 unit	1 year	Teacher Signature Required	Spring audition and/or teacher recommendation	The Overland Symphony is open to experienced string students by audition only. Students are expected to practice their instruments regularly and are encouraged to study privately with a qualified instructor. This course will explore a variety of advanced orchestral literature representing various musical periods and styles. Students have an opportunity to refine their technique preparing them for college auditions and scholarship awards. This course may require rehearsal time outside of class. The Overland Symphony will have performances throughout the year; attendance at all performing events is mandatory. Students new to the Overland Symphony will also be expected to purchase concert attire (black dresses for women, tuxedos for men). Music Materials Fee of \$20, School Instrument Rental Fee \$60 (fundraising opportunities available)
Piano	9-12	1/2 unit	1 semester	No Signature Required	None	This course is a lab-based class for students of all ability levels who are interested in improving their piano skills. Students will develop skills in harmonization, sight-reading, repertoire, style and technique. This course may be taken multiple times for credit; level 2 and above students are given priority. Music materials fee of \$10.
String Orchestra	9-12	1 unit	1 year	No Signature Required	None	String Orchestra is a class for any students looking to refine their introductory string playing technique. Any student who has played violin, viola, cello, or string bass for at least one year may enroll in this course. Beginners may register for the class with teacher approval. Students are expected to provide their own instruments for this course, which may require renting an instrument from a music store (monthly rental prices vary depending on the type of instrument). Attendance at all performances is a required part of this class. \$20.00 Music Materials Fee, \$60.00 School Instrument Rental Fee (fundraising opportunities available)

Overland Performing Arts Program

Choralaires (Women Only)	9	1 unit	1 year	Teacher Signature Required	Spring audition	This course is designed for 9th grade female vocalists who are advanced in their vocal and musical skills. Emphasis is on advanced technique and skill development using a broad range of literature. This choir performs several times throughout the year. Attendance at all performances is a required part of this class. Dress Rental fee of \$40.
Overland Singers (Women Only)	9-12	1 unit	1 year	No Signature Required	None	This choir is an entry-level women's choir. Emphasis is on developing proper singing skills and performing a broad range of choral literature. This choir performs several times throughout the year and attendance at all performances is a required part of this class. Students new to Overland Singers will be expected to purchase concert attire. Music Materials Fee of \$10.
Plainsmen (Men Only)	9-12	1 unit	1 year	No Signature Required	None	Plainsmen are an entry-level men's singing group. Emphasis is on developing vocal skills through a wide range of music, and performance skills through a variety of creative staging techniques. The group performs pop and folk music as well as more traditional men's choral music. This choir performs several times throughout the year, and attendance at all performances is a required part of this class. Students new to Plainsmen will be expected to purchase concert attire. Music Materials Fee of \$10.
Cecilian Singers	10-12 (men) & 11-12 (women)	1 unit	1 year	Teacher Signature Required	Spring Audition	Named for the patron saint of music, Cecilian Singers is an auditioned chamber ensemble of approximately 30 mixed voices. Though the group is primarily made up of juniors and seniors, a few sophomore boys are a part of Cecilians each year. Well known for its excellence in performance, this group performs 10 to 15 times throughout the year, and attendance at all performances is a required part of this class. Men new to Cecilian Singers will be expected to purchase concert attire. Dress Rental fee of \$40 (girls only), Retreat fee at \$60.
Jewell Avenue Jazz Choir (Women Only)	10-12	1 unit	1 year	Teacher signature & membership in Trebelaires OR Cecilian Singers required	Spring audition and membership in Trebelaires OR Cecilian Singers	This class is an intermediate/advanced choir that explores singing in the jazz style. This ensemble includes sophomore through senior girls and explores improvisational singing, reading chord changes, choral jazz blend, singing with stylistic considerations. This choir is a performing choir and performances are mandatory. Students new to Jewell Avenue Jazz will be expected to purchase concert attire.
Nine-Mile Jazz Choir	10-12 (men) & 11-12 (women)	1 unit	1 year	Teacher Signature & membership in Cecilian Singers Required	Spring audition membership in Trebelaires OR Cecilian Singers	This class is an advanced choir that will explore singing in the jazz style. Though this ensemble is primarily juniors and seniors, one or two sophomore boys are part of jazz each year. We will begin to explore improvisational singing, reading chord changes, choral jazz blend, singing with stylistic consideration, and learning about the history of jazz. This choir is a performing choir, and performances are required. This choir sings often in public performance. Students new to Nine-Mile Jazz will be expected to purchase concert attire.
Trebelaires (Women Only)	10-12	1 unit	1 year	Teacher Signature Required	Spring Audition	Trebelaires is a highly skilled women's choir known throughout the state for its excellence. The purpose of this ensemble is to expose the singers to quality literature for treble voices and to develop vocal technique and precision. This group of 40-50 women performs 10 to 15 times throughout the year, and attendance at all performances is a required part of this class. Dress Rental fee of \$40, Retreat fee \$15.
Introduction to Theatre	9-12	1/2 unit	1 semester	No Signature Required	None	This course introduces students to the fundamentals of stage performance. Through a variety of performance experiences and exercises, students learn to manipulate their voices and bodies in order to express themselves creatively. Students increase their confidence and comfort in front of an audience while learning to develop creative solutions to performance challenges. This course will explore the role that theatrical performance has played throughout human history and examines the "human experience." Student are required to attend one live theatrical performance outside of class and memorize multiple scenes and monologues.
Technical Theatre	9-12	1/2 unit	1 semester	No Signature Required	Introduction to Theatre	Through creative, hands on projects and practical applications, students will learn and interact with the core areas of technical theatre. Lighting, sound, construction, costuming, painting and makeup will be explored in this course.

Overland Performing Arts Program

Acting 1	10-12	1 unit	1 year	Teacher Signature Required	Introduction to Theatre	This course continues the basic techniques of theatrical play students learned in Introduction to Theatre, and begin to teach the techniques required for more sophisticated characterization. This course will place major emphasis on creating dynamic and engaging performances by practicing the techniques of Robert Cohen, a master in the art of acting. Students will explore the art of acting through scene work, monologue work, play study, character analysis, theatre exercises, rehearsal technique, solo and group performance art, and a final one-act play production.
Acting 2	11-12	1 unit	1 year	Teacher Signature Required	Introduction to Theatre / Acting 1	This course continues the learning and growth of students in the field of acting by focusing on the production of a play. Students will audition and be cast in a play to be rehearsed over the course of the year. The course culminates in a final performance for the community in the Overland Theater. Students will gather props, costumes and set pieces for their performance. This class will continue the emphasis on creating dynamic and engaging theatrical performances throughout the work of the actor and director. Students are required to attend some rehearsals outside of the normal hours of class. This course will prepare students for college throughout the learning of essential collaborative and individual theatrical skills that apply to all subject areas.
Advanced Acting	11-12	1 unit	1 year	Teacher Signature Required	Acting 1 or Acting 2 and Spring audition	This course is designed to continue the process of acting techniques that we learned about in Acting 1 and begin to apply those techniques to the production process of one-act, sketch-comic, and improvisational live performances. The secondary purpose of advanced acting is to prepare you for professional auditions in the community or auditions for acting schools as you move on from high school. Attire fee \$30.
Music Theory	9-12	1/2 unit	1 semester	None	None	Introducing the basics of music theory, this course is designed to help the beginning music student, or those students with limited background in music theory, study the basic elements of music. Topics include notation, rhythm, scales, key signatures, intervals, chords, beginning level melodic and rhythm dictation, ear-training and sight singing skills. Music materials fee: \$10
AP Music Theory (W)	9-12	1 unit	1 year	Teacher Signature Required	Teacher Approval OR 2 years of previous music experience	AP Music Theory is a course designed for those students who are planning to go on in music after high school or who are interested in learning to analyze music at a college level. The students will work with all aspects of introductory music theory and ear training, including four-part writing skills, formal analysis, and sight singing. Students will also analyze the scores of major works. Students should have the ability to read treble and bass clefs with minimal conscious effort. Music materials fee of \$10.

Visual Arts

The Visual Arts Department offers a wide selection of courses designed to advance the interests and abilities of all students. Arts education encourages and nurtures individual voice and abilities of all students. It is a principle means for helping students discover their creative intelligence.

It is the Overland-Prairie Campus belief that all students can benefit from education in the arts. To ensure this, our focus is on building capacity for creative, collaborative, and critical thinking skills necessary for a global society.

At Prairie, students will experience the visual arts through an exploratory approach. Students will be engaged in a rigorous curriculum covering cultural, historical, and cross-curricular themes. At Overland, courses investigate visual communication, problem solving, skill building, and critical thinking in two or three-dimensional media. Not only does coursework build connections to 21st Century skills and careers, but also it transmits and transforms culture through art as an enrichment and expression of humanity.

6th Grade	7th Grade	8th Grade	9th Grade	10th Grade	11th Grade	12th Grade			
Art 6	Art 7	Art 8	Drawing & Painting 1						
			Drawing & Painting 2						
				Drawing & Painting 3					
			Beginning 3D Art (Ceramics & Sculpture 1)						
			Intermediate 3D Art (Ceramics & Sculpture 2)						
				Advanced 3D Art (Ceramics & Sculpture 3)					
			Photography 1						
			Photography 2						
				Photography 3					
				Photography 4					
			Graphic Design 1						
			Graphic Design 2						
				Graphic Design 3					
				Graphic Design 4					
				AP Art History (W)					
					AP Studio Art 2D (W)				
					AP Studio Art 3D (W)				
					AP Studio Art Drawing (W)				
			Prairie Access Visual Arts Electives:						
			Art History/Appreciation		Jewelry Making				

Prairie Visual Arts Program

Course Name	Grade Level	Credit	Course Length	Registration	Prerequisite	Course Description
Art 6	6	N/A	1 semester	No Signature Required	None	Students emphasize the elements of design through the process of drawing, painting, and ceramics. Art units emphasize cultural, historical, and cross-content understandings. Nominal fee required.
Art 7	7	N/A	1 semester	No Signature Required	None	This is a continuation of visual arts. Students build upon and learn new art techniques through drawing, painting, ceramics, and mixed media. Art units emphasize cultural, historical, and cross-content understandings. Nominal fee required.
Art 8	8	N/A	1 semester	No Signature Required	None	This is continuation of visual arts. Students build upon and learn new art techniques through drawing, painting, ceramics, mixed media, and the digital arts. Art units emphasize cultural, historical, and cross-content understandings. Nominal fee required.

Overland Visual Arts Program

Course Name	Grade Level	Credit	Course Length	Registration	Prerequisite	Course Description
Photography 1	9-12	1/2 unit	1 semester	No Signature Required	None	Fee - \$25. Students will learn the basic techniques of digital photography and the post editing process. They will learn to properly utilize the cameras settings, explore basic concepts of composition, and learn how to express abstract ideas through a photographic medium. Students will also learn basic editing skills in using photoshop.
Photography 2	9-12	1/2 unit	1 semester	No Signature Required	Photography 1 with a passing grade	Fee - \$25. Students will learn more difficult camera techniques, and continue to expand their creative exploration through a variety of photography challenges.
Photography 3	10-12	1/2 unit	1 semester	No Signature Required	Photography 2 with a passing grade	Fee - \$25. This course is for the advanced photographer interested in developing a photo portfolio. Students work more independently, but with guidance from the instructor on expanding skills. More emphasis is placed on visual concepts, experimentation and continued personal artistic expression. Students who complete this class in good standing are qualified to go on to Advanced Placement Art Studio.
Photography 4	10-12	1/2 unit	1 semester	No Signature Required	Photography 1 , 2, & 3 with a passing grade	Fee - \$25. This course is designed to challenge students to refine their ability to coverge in two or three specific themes or techniques, and thoroughly explore them through the medium of photography. This optional precursor to AP Photography (AP 2D Studio Art) will help you create a "Concentration" that will provide additional support for the completion of your AP 2D Studio Art Portfolio.
Drawing & Painting 1	9-12	1/2 unit	1 semester	No Signature Required	None	Fee - \$25. This course is designed for students to explore the basics of drawing and painting. Students work in a variety of wet and dry media including tempera paint, pen, pencil, and much more. Drawing & Painting 1 students will learn how to design compositions, utilize their imagination, and learn how to work from real life. This class is technique based and is a great foundation for all art classes. Artists from multiple different movements are explored and students build a visual art vocabulary. No previous experience is required for this class.
Drawing & Painting 2	9-12	1/2 unit	1 semester	No Signature Required	Drawing & Painting 1 with a passing grade	Fee - \$25. Students enhance the skills learned in Drawing and Painting 1 to further explore two-dimensional drawing and painting media. Creative thinking and problem solving strategies are encouraged in the making of several finished projects.
Drawing & Painting 3	10-12	1/2 unit	1 semester	No Signature Required	Drawing & Painting 2 with a passing grade	Fee - \$25. The keynote of this class is developing personal voice, while expanding skills. More emphasis is placed on visual concepts, experimentation, problem solving strategies, and continued personal artistic expression. Students who complete this class in good standing are qualified to go on to Advanced Placement Art Studio.
Graphic Design 1 <div>IST</div>	9-12	1/2 unit	1 semester	No Signature Required	None	Fee - \$25. This class covers the creation and production of graphic design projects, emphasizing layout, typography, creative design process, problem solving, and research. Students will be pushed in the areas of creativity and craftsmanship while expanding their knowledge of the elements and principles of design. Assignments range from individual to collaborative and are built to introduce design thinking, critical discussion and personal decision-making in relation to graphic design and address the ethics of intellectual property laws. Through the study of graphic design and self-expression students will strengthen their foundation as an artist and familiarize themselves with ever-expanding 21st century career skills. Students will learn to utilize Adobe Illustrator and Adobe Photoshop.

Overland Visual Arts Program

Course Name	Grade Level	Credit	Course Length	Registration	Prerequisite	Course Description
Graphic Design 2 <div>IST</div>	9-12	1/2 unit	1 semester	No Signature Required	Graphic Design 1 with a passing grade	Fee - \$25. This course is an introduction to Design as it relates to the individual student and their place in the larger world. Students will learn the basic elements of Design; its purpose, techniques, influences and its connection to past and current culture. Students will also learn visual literacy and critical thinking applied to a variety of art mediums including basic computer design. Projects will focus on product design, animation and illustration. Students will be challenged to push themselves in areas of research, creativity and craftsmanship. Through the study of both graphic design and self-expression, students will strengthen their foundation as an artist and familiarize themselves with the ever-expanding skills necessary in today's complex culture.
Graphic Design 3 <div>IST</div>	10-12	1/2 unit	1 semester	No Signature Required	Graphic Design 1 & 2 with a passing grade	Fee - \$25. This course is a continuation of the exploration of Graphic Design as it relates to the students, and how they can interact with and shape the world around them. Students will continue utilizing the Elements and Principles of Design in order to further their conceptual art and ideas. Students will use visual literacy and critical thinking skills to utilize their developed design skills to work on more project and theme based assignments. Students will also begin to learn about marketing design and how their projects and ideas can translate to practical use in their community and outside.
Graphic Design 4 <div>IST</div>	10-12	1/2 unit	1 semester	No Signature Required	Graphic Design 1, 2, & 3 with a passing grade	Fee - \$25. Graphic Design 4 will focus on students using their skills gained in the past three Graphic Design courses in real work applications. Students will use what they have learned over the past three courses to explore how Advertising, Art, and Marketing can be used together to create a product or identity for different clients they could have as a Graphic Designer. Projects will focus on designing practical items for everyday use as well as researching programs or companies. Finally, they will learn how to build an official web page so they may increase their web presence and begin practicing creating different products for clients.
Beginning 3D Art (Ceramics & Sculpture 1)	9-12	1/2 unit	1 semester	No Signature Required	None	Fee - \$25. Students explore a variety of three-dimensional sculptural and ceramic processes. They learn fundamental sculpting techniques including additive, subtractive and modeled techniques, which will be used to take two-dimensional ideas into the three-dimensional world. A variety of materials will be explored. Students learn traditional hand-building ceramic skills, which will be used to create more functional three-dimensional pieces in clay. This course is designed to give students a strong background in problem solving, creative and critical thinking which can be applied to their art work. A study of artists and other cultures is included in most units.
Intermediate 3D Art (Ceramics & Sculpture 2)	9-12	1/2 unit	1 semester	No Signature Required	Beginning 3D Art with a passing grade	Fee - \$25. This course is a continuation of Ceramics & Sculpture 1. Students continue exploring the various building techniques used in the sculptural and ceramic process, and even combining the two to discover the possibilities of functional and non-functional art works. Elements and Principles of Art and Design are focused on, together with the design process. Students use a broad range of sculptural materials and learn to throw on the potter's wheel. A further development of problem solving and critical thinking allow students to take ideas from a sketch to a three-dimensional piece of work. Critiques of student work as well as studies of artists and other cultures are included.
Advanced 3D Art (Ceramics & Sculpture 3)	10-12	1/2 unit	1 semester	No Signature Required	Intermediate 3D Art with a passing grade	Fee - \$25. This course is for the advanced student interested in developing a portfolio of work in their chosen area, ceramics or sculpture. Students will work more independently but with guidance from the instructor on expanding skills. More emphasis will be placed on visual concepts, experimentation and continued personal artistic expression. Students who complete this class in good standing will then be qualified to go on to Advanced Placement Studio Art if desired.
AP Studio Art Drawing (W) <div>IST</div>	11-12	1 unit	1 year	Teacher Signature Required	Drawing & Painting 3	Fee - \$25. This course is part of the National College Board AP program for students seeking college art credit, a creative challenge, and/or serious art students. During the first semester, a breadth of visual problems will be explored. During second semester, students will develop their own visual language and voice for the Concentration part of the portfolio. At the end of the year, students are required to submit a substantial portfolio of artwork in Drawing; which can include drawing, painting, printmaking, and mixed media. The Drawing portfolio is intended to address a wide range of approaches and media focused on mark making, arrangements of the marks, and materials used to make the marks. Students will work simultaneously in class and outside of class to complete their requirements as well as participate in art shows, field trips, and critiques.

Overland Visual Arts Program

Course Name	Grade Level	Credit	Course Length	Registration	Prerequisite	Course Description
AP Studio Art 2D (W) <div>IST</div>	11-12	1 unit	1 year	Teacher Signature Required	Drawing & Painting 3 OR Photography 3 OR Graphic Design 2	Fee - \$25. This course is part of the National College Board AP program for students seeking college art credit, and are prepared to work at the highest require level in artistic production. During first semester, a breadth of visual problems will be explored. During second semester, students will develop their own visual language and voice for the concentration part of the portfolio. At the end of the year students are required to submit a portfolio of 24 pieces of art in one of these areas: Drawing or 2-D Design. Students who have taken Computer Art/Photography and/or Design are welcome, with the signature of their teacher. Students will work simultaneously in class and outside of class to complete their requirements as well as participate in art shows, field trips, ad critiques. An orientation sessio will be held at the end of the school year prior to taking this class all pre- enrolled students. If you wish to participate in the AP Portfolio Ecam there will be an additional cost determined by The National College Board.
AP Studio Art 3D (W) <div>IST</div>	11-12	1 unit	1 year	Teacher Signature Required	Advanced 3-D Art	Fee - \$25. This course is part of the National College Board AP program for students seeking college art credit, a creative challenge, and/or serious art students. During first semester, a breadth of visual problems will be explored. During second semester, students will develop their own visual language and voice for the Concentration part of the portfolio. At the end of the year students are required to submit a substantial portfolio of artworks in 3-D Design. Artworks completed prior to the class may apply if the student has achieved a proficient or advanced level in manipulative skills and concepts. Students will work simultaneously in class and outside of class to complete their requirements as well as participate in art shows, field trips, and critiques. An orientation session will be held at the end of the school year prior to taking this class for all pre-enrolled students.
AP Art History (W)	10-12	1 unit	1 year	Teacher Signature Required	None	Fee - AP Test at Conclusion. Art is the evidence left behind by world history. Students will learn about world cultures, religions, politics and philosophies through art and architecture. They will study significant artists, art periods, styles and mediums and how they are a part of human evolution and thought, from Prehistoric cave paintings to contemporary architecture. Student research and essay writing are a part of this course. AP Art History is a nationally recognized course sponsored by the College Board, and upon successful completion of the AP exam, students may earn college credit. Students can use this course for a full Art credit.
Unified Art (Pilot Year)	9-12	1/2 unit	1 semester	Teacher Signature Required	Must have current IEP	A Unified Art class specifically designed for students who benefit from a modified curriculum with an emphasis on those with special needs.

Technology

The Technology Department offers a wide selection of courses designed to advance the interests and abilities of all students. Considering the importance of technology today, the skills that are taught in these classes are valuable and can be used in many other content areas.

Currently, courses are offered in engineering, computer aided design, computer science, robotics, multimedia, web design, automotive technology, and other applied technologies. The Overland-Prairie Campus is committed to preparing students for their future and, therefore, offers several certification and diploma-certificate opportunities in technology through the career pathways.


6th Grade	7th Grade	8th Grade	9th Grade	10th Grade	11th Grade	12th Grade			
Technology			Technology Projects (sem)						
	STEAM Explorations		Technology Projects (year)						
Robotics				STEAM Projects					
				Computer Aided Design (CE)					
				Engineering Design (CE)					
				Architectural Design (Formerly: Architectural Drawing)					
					Internship/Sr. Project				
				Robotics (Intermediate)					
				Robotics and Electro-Mechanical Design					
					Internship/Sr. Project				
			Consumer Automotive						
				Automotive Technology 1					
				Automotive Technology 2 (CE)					
					Automotive Technology 3 (CE)				
					Internship/Sr. Project				
			AP Computer Science Principles (W)						
				AP Computer Science A (W)					
					Mobile Applications Development				
					Data Structures & Algorithms				
					Internship/Sr. Project				
			Video Production I (CE)						
			Video Production II (CE)						
			Broadcast Journalism						
				Capstone: Digital Media & Communications (Formerly: Advanced Video Production)					
					Internship/Sr. Project				
			Web Site Development I (Formerly: Web Page Design 1)						
			Web Design Foundations A (CE) (Formerly: Web Page Design 2)						
					Internship/Sr. Project				
			Introduction to Healthcare (Formerly: Exploring Health Sciences)						
			Prairie Access Technology Electives:			Introduction to Health Science A (Formerly: Principles of Health Sciences)			
			Web and Digital Design		Robotics Engineering 1			Introduction to Health Science B (Formerly Advanced Health Science)	
			Prairie News Network					Criminal Justice and Law I (Formerly: Introduction to Criminal Justice)	
								Criminal Justice and Law II (Formerly: Crime Scene Investigation) (CE)	

Note: This chart shows examples of 4-year career paths. Please consult the course guide on the following pages for specific grade level offerings and the required prerequisites.


Prairie Technology Program

Course Name	Grade Level	Credit	Course Length	Registration	Prerequisite	Course Description
STEAM Explorations	7	N/A	1 semester	No Signature Required	None	Students will learn and actively use the Engineering Design Process to bring their designs to life. From fabrication tools to CAD and 3D printing, students are exposed to basic software, tools and equipment found at the foundation of any CTE STEAM pathway. Students will utilize design software (SketchUp), Arduinos, coding, and other tools to manufacture new products. The course will end with students using all course skills to collaboratively create a final project.
Technology	6-8	N/A	1 semester	No Signature Required	None	Technology is an exploratory opportunity available to all students at Prairie. Throughout the 3 grade levels students are given opportunities to explore a variety of applications and techniques that include keyboarding, word processing, spreadsheets, and presentation software providing skills to ensure success in their future. Students will also have opportunities to pursue graphics creation, graphic manipulation, mixed media documents, mixed media productions, video production, animation, and other possibilities of their own choosing. After successful completion of a semester of Technology, some students will have the opportunity to join Prairie's News Network (PNN) where they will actively participate in the script-writing, filming, production and announcing of PNN Daily Video Announcements and PNN Special Productions.
Robotics	6-8	N/A	1 semester	No Signature Required	None	Robotics provides an opportunity for students to explore engineering and programming through problem based learning by combining NXT Lego Mindstorm software and kits to design solutions to everyday problems. Students will learn: teamwork, the basics of robotics, and engineering and programming concepts. The course is designed to develop technologically literate students who through their use of robotics to develop an interest in learning the basics of mechanical engineering, design, and computer programming.






Overland Technology Program

Course Name	Grade Level	Credit	Course Length	Registration	Prerequisite	Course Description
Technology Projects (Sem)	9-10	1/2 unit	1 semester	No Signature Required	None	Students will engage in exciting hands-on projects in STEAM fields: robotics, engineering, and programming. Possible projects: Web Design with Google sites, Freeze Tag, App Inventor, Flight Endurance, HTML, Tractor Pull Robots, Game Design/ Programming, bridges (CAD), CAD squares, catapults and Seaperch robots. Students will attend for one semester.
Technology Projects (Year)	9-10	1 unit	1 year	No Signature Required	None	Students will engage in exciting hands-on projects in STEAM fields: robotics, engineering, and programming. Possible projects: Web Design with Google sites, Freeze Tag, App Inventor, Flight Endurance, HTML, Tractor Pull Robots, Game Design/ Programming, bridges (CAD), CAD squares, catapults and Seaperch robots. Students will attend for one year.
Computer Aided Design (CE)  IST	10-12	1 unit	1 year	No Signature Required	May require qualifying score on Accuplacer, ACT, SAT or AP	Fee \$10 This is the first in the series of Engineering Technology pathway courses. Students complete projects that emphasize principles of design, reasoning, problem solving and presentation skills. This entry level 3D SolidWorks software design course is for students interested in exploring careers related to computer aided design, CADD drafting, engineering, architecture and interior design. Students will work with laser engravers and additive 3D printers. Focuses on basic computer aided drafting skills using the AutoCAD software. Includes file management, Cartesian coordinate system & dynamic input, drawing templates, drawing aids, linetype and lineweights, layer usage, drawing & editing geometric objects, polylines & splines, array, text applications, creating tables, basic dimensioning and Help access. This course aligns with the Colorado Community College course SolidWorks Basic (CAD 256). Students will have the opportunity to earn high school credit while at the same time enroll in and earn community college credits with the opportunity to transfer credit to an institution of higher education. If the student is interested in earning community college credit, an additional free application is required. More information can be found at www.cherrycreekschools/cte on the Concurrent Enrollment tab. Students enrolled in this course are encouraged to participate in the Technology Student Association (TSA). [TSA is a student club activity. Students enrolled in this course have the opportunity to take the CSWA industry standard associates certification exam.





Overland Technology Program

Course Name	Grade Level	Credit	Course Length	Registration	Prerequisite	Course Description
Engineering Design  IST	10-12	1 unit	1 year	Teacher Signature Required	Successful completion of Computer Aided Design	Fee \$30 This is the second in a series of Engineering Technologies pathway courses. Using 3D SolidWorks, an industry standard software, student skills are further developed in design and problem solving. The emphasis on the Iterative Engineering Design Process helps students do real world research, design and construct prototypes employing CADD, laser engravers, additive and subtractive 3D printing. Focuses on intermediate 2D computer aided drafting skills using the AutoCAD software. Includes blocks, wblocks & dynamic blocks, hatching, isometric drawings, advanced dimensioning and dimension variables, layouts, paper space and viewports, templates, external references, attributes, raster images, & printing/plotting. This course aligns with the Colorado Community College course SolidWorks Mechanical (CAD 257). Students will have the opportunity to earn high school credit while at the same time enroll in and earn community college credits with the opportunity to transfer credit to an institution of higher education. If the student is interested in earning community college credit, an additional free application is required. More information can be found at www.cherrycreekschools/cte on the Concurrent Enrollment tab. Students enrolled in this course are encouraged to participate in the Technology Student Association (TSA). TSA is a student club activity. Students enrolled in this course have the opportunity to take the CSWA industry standard associates certification exam, professional exam and other 3D SW exams.
Architectural Design (Formerly: Architectural Drawing) IST	11-12	1 unit	1 year	Teacher Signature Required	Successful completion of Computer Aided Design and Engineering Design and teacher approval	Fee \$30 This is the third in the series of Engineering Technology pathway courses. Students will: practice architectural sketching plus study basic building construction products and methods; learn a brief history of architecture, architects and the types and styles of architecture; as well as how to design their own dream home. Designed for advanced drafters to develop skills in the field of architectural engineering. This class will offer the experience in the development and design of structures using architectural design software. Students will develop drafting skills through reading architectural blue prints and generating floor plans for real world applications. This course is designed to allow students to use their knowledge of CAD to create a set of house plans that meet city code requirements for the city. Students will use CAD software and draw a floor plan, plot plan, electrical plan, foundation plan, and elevation for their house as well as construct a model frame house. Students enrolled in this course are encouraged to participate in the Technology Student Association (TSA). TSA is a student club activity.
Robotics (Intermediate) IST	10-12	1 unit	1 year	Teacher Signature Required	Geometry (may be taken concurrently) and Introduction to Robotics	Fee \$10 In this project-based course, students use a micro-controller to control robots and other complex electromechanical systems. They learn how various sensors work and design their own systems on breadboards using electrical principles. Topics of study include sense & response programming, circuits, designing and developing sensors and building complex control systems.
Robotics and Electro-Mechanical Design IST	11-12	1 unit	1 year	Teacher Signature Required	Intorduction to Robotics AND Robotics (Intermediate)	In this course, students will explore fundamental concepts to the circuits and elements that make up an autonomous robot. With circuit design, students will work on projects that introduce them to the fundamentals and physics of analog and digital circuits by allowing them to design electronics that perform specific tasks. Students will use these concepts to design, build, and program more complex machines.
Consumer Automotive	9-12	1/2 unite	1 semester	No Signature Required	None	Fee - \$10. This course is designed to give the first year student a basic understanding and introduction to the occupation of Automotive Service and Repair. This will include studies in the following areas: orientation to automotive related industries; career opportunities in the field; orientation to an automotive shop environment; shop and environmental safety; identifying and using tools related to the industry; hazardous materials and waste management; communications and public relations as it relates to the industry; use of manuals and computers in all areas of the industry; use of precision measuring tools and automotive math; theory, presentation and evaluation of performance tasks in the areas of automobile repair.
Automotive Technology 1 IST	10-12	1 unit	1 year	No Signature Required	None	Automotive Service Technology (AST) prepares individuals to apply technical knowledge and skills to repair, service, and maintain all types of automobiles at an INTERMEDIATE level. This course builds on concepts learned in Auto Basic, MLR, and/ or Compact Engines. Students receive instruction on basic automobile maintenance requirements, specific tool uses and safety procedures. Inspection and repair of automotive systems is stressed in the areas of brakes, electrical, suspension, fuel, emissions and tune up procedures.









Overland Technology Program

Course Name	Grade Level	Credit	Course Length	Registration	Prerequisite	Course Description
Automotive Technology 2 (CE)  IST	10-12	2 units	1 year	No Signature Required	Successful completion of Automotive Technology 2	Automotive Service Technology (AST) prepares individuals to apply technical knowledge and skills to repair, service, and maintain all types of automobiles at an INTERMEDIATE level. This course builds on concepts learned in Auto Basic, MLR, and/ or Compact Engines. This course is designed to expand the knowledge and skills that the student achieved in Automotive Technology I. Each student will become proficient in advanced skills in the areas of electronic and computerized ignition systems, brake systems, and fuel systems. The students will continue to receive instruction in brakes, electrical/electronic systems, engine performance, and suspension and steering to continue to prepare them for the ASE certification exams. This course aligns with the Colorado Community College course ASE 150. Students will have the opportunity to earn high school credit while at the same time enroll in and earn community college credits with the opportunity to transfer credit to an institution of higher education. If the student is interested in earning community college credit, an additional free application is required. More information can be found at www.cherrycreekschools/cte on the Concurrent Enrollment tab.
Automotive Technology 3 (CE)  IST	11-12	2 unit	1 year	Teacher Signature Required	Successful completion of Automotive Technology 1 and Automotive Technology 2	Automotive Service Technology (AST) prepares individuals to apply technical knowledge and skills to repair, service, and maintain all types of automobiles at an INTERMEDIATE level. This course builds on concepts learned in Auto Basic, MLR, and/ or Compact Engines. This course is designed to expand the knowledge and skills that the student achieved in Automotive Technology II. This course focuses on the removal and installation procedures of the automotive engine from and into front wheel and rear wheel drive vehicles. The students will have lecture and laboratory experiences in the disassembly, diagnosis and reassembly of the automotive engine. Topics include the diagnostic and repair procedures for the engine block and head assemblies. Students will continue to receive instruction in other ASE areas to continue to prepare them for ASE certification exams. This course aligns with the Colorado Community College course ASE 154. Students will have the opportunity to earn high school credit while at the same time enroll in and earn community college credits with the opportunity to transfer credit to an institution of higher education. If the student is interested in earning community college credit, an additional free application is required. More information can be found at www.cherrycreekschools/cte on the Concurrent Enrollment tab.
AP Computer Science Principles (W)  IST	9-12	1 unit	1 year	No Signature Required	Prerequisite: Grade of B or higher in Algebra 1 and grade of B or higher in English class, or teacher recommendation	Fee - \$10. AP Computer Science Principles is an introductory college-level computing course. Students cultivate their understanding of computer science through working with data, collaborating to solve problems, and developing computer programs as they explore concepts like creativity, abstraction, data and information, algorithms, programming, the internet, and the global impact of computing.
AP Computer Science A (W)  IST	10-12	1 unit	1 year	Teacher Signature Required	Grade of B or higher in Computer Programming 1, Game Design, or AP Computer Science Principles, plus concurrent enrollment in Algebra II or higher	Fee - \$10. AP Computer Science A is an introductory college-level computer science course. Students cultivate their understanding of coding through analyzing, writing, and testing code as they explore concepts like modularity, variables, and control structures.
Mobile Application Development  IST	11-12	1/2 unit	1 semester	Teacher Signature Required	Successful completion of AP Computer Science A or teacher recommendation	Mobile App Development is a course intended to teach students the basic concepts and skills of mobile app design. The course places an emphasis on the history of mobile technologies, design and development methodologies, code for mobile applications, application lifecycles, APIs, mobile device controls, user interfaces, deployment, publishing for mobile devices, developer tools, and career development. Upon completion of this course, proficient students will demonstrate an understanding of mobile app development concepts.


Overland Technology Program

Course Name	Grade Level	Credit	Course Length	Registration	Prerequisite	Course Description
Data Structures & Algorithms  IST	11-12	1/2 unit	1 semester	Teacher Signature Required	AP Computer Science A	This course is a college level course that is a follow-up to AP Computer Science A. This course will cover additional data structures, which include, but are not limited to, arrays, lists, stacks, and queues, trees, and hash tables. This course will also expose students to basic algorithmic development techniques as related to the data structures studied.
Video Production I (CE)  IST	9-12	1/2 unit	1 Semester	No Signature Required	None	This course explores the Audio and Video production industry and its post-secondary educational and career opportunities. Students will gain job-specific training for entry level employment in audio, video, television, and motion picture careers. Professional grade equipment and software will be used in the creation of student lead productions. Students will be involved in every aspect of several class and small group audio, video, and film style production projects with emphasis on TV studio broadcasting and news production projects. Students will also be encouraged to participate as studio crew for district productions outside of school hours.
Video Production II IST	9-12	1/2 unit	1 Semester	Teacher Signature Required	Video Production 1	This course explores the Audio and Video production industry and its post-secondary educational and career opportunities. Students will gain job-specific training for entry level employment in audio, video, television, and motion picture careers. Professional grade equipment and software will be used in the creation of student lead productions. Students will be involved in every aspect of several class and small group audio, video, and film style production projects with emphasis on TV studio broadcasting and news production projects. Students will also be encouraged to participate as studio crew for district productions outside of school hours.
Broadcast Journalism (OTV) IST	9-12	1 unit	1 year	Application and Teacher Signature Required	Successful completion of Video Production 1 or previous video experience with teacher approval	Students will examine the techniques and technologies involved in creating multi camera shoots for the news and narrative broadcast television genres. Students will explore the unique logistical, structural, and aesthetic methodologies that distinguish broadcast production from other types of production.
Capstone: Digital Media & Communications (Formerly: Advanced Video Production)  IST	10-12	1 unit	1 year	Teacher Signature Required	Video Production 2 or Broadcast Journalism (OTV)	This year-long class gives students the opportunity to practice advanced filming and editing techniques through visual storytelling. Students work in groups and/or pairs structuring and shooting exercises and original projects to be edited. Students will learn to write in depth screenplays and will use advanced storyboarding techniques to create short films. Students will gain a deeper understanding of green screen effects and will learn about set design and the process of making films in industry.
Web Site Development I (Formerly: Web Page Design 1)  IST	9-12	1/2 unit	1 semester	No Signature Required	None	Web Site Development builds on the skills and knowledge gained in Web Design Foundations to further prepare students for success in the web design and development fields. Emphasis is placed on applying the design process toward projects of increasing sophistication, culminating in the production of a functional, static website. As students work toward this goal, they acquire key skills in coding, project management, basic troubleshooting and validation, and content development and analysis. Artifacts of the work completed in this course will be logged in a student portfolio demonstrating mastery of skills and knowledge. Upon completion of this course, proficient students will be prepared to pursue a variety of postsecondary programs in the computer sciences, sit for industry certification, or apply their skills in a capstone Web Design Practicum. Students enrolled in this course are encouraged to participate in the Technology Student Association (TSA).

Overland Technology Program

Course Name	Grade Level	Credit	Course Length	Registration	Prerequisite	Course Description
Web Design Foundations A (Formerly: Web Page Design 2)(CE) 	9-12	1/2 unit	1 semester	No Signature Required	Successful completion of Web Site Development	This course is intended to develop fundamental skills of the basic web design and development process, project management and teamwork, troubleshooting and problem solving, and interpersonal skill development.. Students enrolled in this course are encouraged to participate in the Technology Student Association (TSA).
Introduction to Healthcare (Formerly: Exploring Health Sciences) 	9-11	1/2 unit	1 semester	No Signature Required	None	Introduces health sciences with an overview of the five pathways that make up the health science cluster. The course addresses the foundation standards including health maintenance, employability skills, teamwork, healthcare systems, communications, and legal issues in healthcare.
Introduction to Health Science A (Formerly: Principles of Health Sciences) 	10-12	1 unit	1 year	No Signature Required	Successful completion of Introduction to Healthcare	Fee \$25 Provides an overview of the challenging environments and occupation is the healthcare field. This course introduces students to the five pathways that make up the health science cluster (Diagnostic, Therapeutic, and Support Services, Health Informatics, Biotechnology Research and Development). In addition, students are provided a hands-on application of the foundational skills/ knowledge including health maintenance, employability skills, teamwork, healthcare systems, communications, and legal issues in healthcare. This course includes preparation for Basic Life Support for Healthcare Providers certification
Introduction to Health Science B (Formerly Advanced Health Science)  	11-12	1 unit	1 year	Teacher Signature Required	Successful completion of Introduction to Healthcare and Introduction to Health Science A	Fee \$25 The course encourages awareness of career possibilities in healthcare and informs students of educational opportunities available in health science programs. This course integrates foundational theory with technical skills necessary for healthcare environments. Instruction includes: an overview of body systems, medical terminology, communication, principles of patient care, concepts of ethics and bioethics, safety practices including infection control, personal and environmental safety, technology, cultural awareness, emergency procedures and protocols; common and emerging diseases and disorders, fundamental skills of basic care, medical math, CPR and first aid. This course includes preparation for Basic Life Support for Healthcare Providers certification.
Introduction to Medical Terminology 	11-12	1.0	1 year	Teacher Signature Required	Successful completion of Introduction to Healthcare and Introduction to Health Sciences A & B	Introduces the student to the structure of medical terms with emphasis on using and combining the most common prefixes, roots and suffixes. Includes terms related to major body systems, oncology, psychiatry, as well as clinical laboratory and diagnostic procedures and imaging. Class structure provides accepted pronunciation of terms and relative use in the healthcare setting.
Criminal Justice and Law I (Formerly: Introduction to Criminal Justice) (CE)  	11-12	1 unit	1 year	No Signature Required	None	Fee - \$20. This course combines Introduction to Criminal Justice (CRJ 110) and Correctional Process (CRJ 145). This course concentrates on potential careers in the criminal justice system and law enforcement in general. Students will learn about the agencies and processes involved in the criminal justice system: the legislature, the police, the prosecutor, the public defender, the courts, and corrections. The course includes an analysis of the roles and problems of the criminal justice system in a democratic society, with an emphasis upon inter component relations and checks and balances. This course aligns with the Colorado Community College course Introduction to Criminal Justice (CRJ 110) and Correctional Process (CRJ 145). Students will have the opportunity to earn high school credit while at the same time enroll in and earn six community college credits with the opportunity to transfer credit to an institution of higher education. If the student is interested in earning community college credit, an additional free application is required. More information can be found at www.cherrycreekschools/cte on the Concurrent Enrollment tab.

Overland Technology Program







Course Name	Grade Level	Credit	Course Length	Registration	Prerequisite	Course Description
Criminal Justice and Law II (Formerly: Crime Scene Investigation) (CE)  IST	11-12	1 unit	1 year	No Signature Required	Successful completion of Criminal Justice and Law I	Fee - \$20. This course combines Principles of Criminal Law (CRJ 205) and Victimology (CRJ 257). Principles of Criminal Law focuses on common law and statutory law crimes, the Model Penal Code, elements defining crimes and penalties, defenses to criminal accusations, and definitions and distinctions between criminal and civil law. Victimology demonstrates to the student the role the crime victim plays in the criminal justice system. The traditional response that a crime victim receives from the system will be studied and the psychological, emotional and financial impact these responses have on victimization will be analyzed. This course aligns with the Colorado Community College course Principles of Criminal Law (CRJ 205) and Victimology (CRJ 257). Students will have the opportunity to earn high school credit while at the same time enroll in and earn six community college credits with the opportunity to transfer credit to an institution of higher education. If the student is interested in earning community college credit, an additional free application is required. More information can be found at www.cherrycreekschools/cte on the Concurrent Enrollment tab.
Internship/Senior Project IST	12	1 unit	1 year	Teacher Signature Required	Completion of Technology Pathway	Senior project is a capstone class which allows students to continue their study of a technology pathway: engineering, computer science, arts and technical communication, biotechnology, etc. Students work with the teacher to design an independent advanced project to continue studies of a topic in which they have developed a strong interest. Students conduct research around their project and document all work through a project journal, and make a formal project presentation. Goal setting, time management, and independent learning are skills developed in this course. This class will be instrumental in helping students make future career and educational decisions. Students enrolled in Senior Project are encouraged to participate in Technology Student Association (TSA).

Business




According to the *Princeton Review*, the number one major for college students is...BUSINESS! Courses in the Business Education Department will give students the opportunity to prepare for any college major and for a successful career. Students may take foundations courses in Computer Applications and Business & Personal Finance. Students may also take courses that will earn college credit in Accounting and Marketing. Additionally, students can challenge themselves with the rigor of AP Economics. Students have the chance to develop leadership skills in the two co-curricular students associations affiliated with these programs-- FBLA (Future Business Leaders of America) and DECA (An Association of Marketing Students). These national organizations enhance what is learned in the classroom by providing students the opportunity to participate in community service activities, competitive events and travel around the country to leadership conferences.

9th Grade	10th Grade	11th Grade	12th Grade
Personal Finance			
Introduction to PC Applications (Formerly: Computer Applications)			
Intro. to Business (CE)			
		Accounting 1: Fundamentals of Accounting	
		Accounting 2 (CE) : Principals of Accounting	
		Marketing 1	
		Marketing 2 (CE)	
		Legal Environment of Business (Formerly: Business Law)	
		AP Macro and Micro Economics (W)	

Overland Business Program

Course Name	Grade Level	Credit	Course Length	Registration	Prerequisite	Course Description
Personal Finance 	9-12	1/2 unit	1 semester	No Signature Required	None	Surveys the basic personal finance needs of most individuals and introduces the personal finance tools useful in planning and instituting a successful personal financial philosophy. The course emphasizes the basics of budgeting, buying, saving, borrowing, career planning, investing, retirement planning, estate planning, insurance, and income taxes. Students are encouraged to join FBLA (Future Business Leaders of America).
Introduction to PC Applications (CE) (Formerly: Computer Applications) 	9-12	1/2 unit	1 semester	No Signature Required	Accuplacer	This course introduces basic computer terminology, file management, and PC system components. Provides an overview of office application software including word processing, spreadsheets, databases, and presentation graphics. Includes the use of a web browser to access the Internet. This course aligns with the Colorado Community College course Introduction to PC Applications (CIS 118). Students will have the opportunity to earn high school credit while at the same time enroll in and earn community college credits with the opportunity to transfer credit to an institution of higher education. If the student is interested in earning community college credit, an additional free application is required. More information can be found at www.cherrycreekschools/cte on the Concurrent Enrollment tab. Students are encouraged to join FBLA (Future Business Leaders of America).
Introduction to Business (CE) 	9-10	1/2 unit	1 semester	No Signature Required	Accuplacer score of SS70	Introduces the application of fundamental business principles to local, national, and international forums. This course examines the relationship of economic systems, governance, regulations, and law upon business operations. It surveys the concepts of career development, business ownership, finance and accounting, economics, marketing, management, operations, human resources, regulations, and business ethics. This course aligns with the Colorado Community College course Introduction to Business (BUS 115). Students will have the opportunity to earn high school credit while at the same time enroll in and earn community college credits with the opportunity to transfer credit to an institution of higher education. If the student is interested in earning community college credit, an additional free application is required. More information can be found at www.cherrycreekschools/cte on the Concurrent Enrollment tab.. Students are encouraged to join FBLA (Future Business Leaders of America).
Accounting 1: Fundamentals of Accounting 	10-12	1 unit	1 year	Signature Required for 10th grade students only No Signature Required for 11th & 12th	None	Introduces accounting fundamentals with emphasis on the procedures and practices used in business organizations. Major topics include the accounting cycle for service and merchandising companies, including end-of-period reporting. This course is the first in a two-year program that will receive community college credit. Students are encouraged to join FBLA (Future Business Leaders of America).
Accounting 2: Principals of Accounting (CE) 	11-12	1 unit	1 year	Teacher Signature Required	Accounting 1 & Instructor's Approval	This course introduces accounting principles for understanding the theory and logic that underlie procedures and practices for business organizations. Major topics include the accounting cycle for service and merchandising companies, internal control principles and practices, notes and interest, inventory systems and costing, and plant and intangible asset accounting. Students are encouraged to join FBLA (Future Business Leaders of America).
Marketing 1: Principals of Marketing 	10-12	1 unit	1 year	No Signature Required	None	Fees - \$40 Fee includes State/National Dues, Fee for Districts & DECA t-shirt. Presents the analysis of theoretical marketing processes and the strategies of product development, pricing, promotion and distribution, and their applications to businesses and the individual consumer. This course aligns with the Colorado Community College course Principles of Marketing (MAR 216). Students will have the opportunity to earn high school credit while at the same time enroll in and earn community college credits with the opportunity to transfer credit to an institution of higher education. If the student is interested in earning community college credit, an additional free application is required. More information can be found at www.cherrycreekschools/cte on the Concurrent Enrollment tab. Only students enrolled in a Business and/or Marketing classes can participate in DECA, a co-curriculum chapter. DECA (an Association of Marketing Students) allows members opportunities to develop leadership skills, participate in community service projects, and enjoy social activities. Students will also be eligible to travel and compete in marketing competitions, both locally and nationally. A chapter membership fee is involved.

Overland Business Program








Course Name	Grade Level	Credit	Course Length	Registration	Prerequisite	Course Description
Marketing 2: Social Media and Advertising (CE) 	11-12	1 unit	1 year	Teacher Signature Required	Marketing 1 & Instructor's Approval	Fees - \$40 Fee includes State/National Dues, Fee for Districts & DECA t-shirt. This course combines Social Media for Business and Principles of Advertising. Social Media for Business teaches students how to use social media as a business strategy and covers how to match that strategy with the goals of the business. This course addresses current trends, ethics, regulations, legal challenges, strategy, content development, and change management. This course helps students develop a better understanding of how marketing with social media is similar to and different from traditional marketing and how to best use online methods to further business goals. Principles of Advertising examines the principles and practices of advertising and its relationship to business in order to promote a business or organization. Areas of major emphasis include advertising principles, strategies, media, copy and layout, and ethical considerations. Only students enrolled in a Business and/or Marketing classes can participate in DECA, a co-curriculum chapter. DECA (an Association of Marketing Students) allows members opportunities to develop leadership skills, participate in community service projects, and enjoy social activities. Students will also be eligible to travel and compete in marketing competitions, both locally and nationally. A chapter membership fee is involved.
Legal Environment of Business (CE) (Formerly: Business Law) 	10-12	1/2 unit	1 semester	No Signature Required	Intro. to Business is required in order to get CE credit for Business Law 1.	Business Law addresses legal topics concerning business and the individual. Topics of discussion include contracts (e.g. renting an apartment, buying a car, obtaining a credit card, laws affecting minors, fraud), negligence (e.g. slipping/falling, car accidents), intentional torts (e.g. trespassing, defamation, assault, battery, invasion of privacy), civil procedure (e.g. trial process), crimes, constitutional law and the court systems, intellectual property law, employment law, credit, and ethics/social responsibility. The course also includes guest speakers and law-related movies and/or videos illustrating the legal topics discussed in the classroom. Students are encouraged to join FBLA (Future Business Leaders of America). This course is a Concurrent Enrollment course through the Community College of Aurora. Students enrolled in this course will complete college-level work while attending high school. Students who have met the prerequisite and earn a "C" or better in the class will receive 3 college credits.
AP Macro and Micro Economics (W) 	11-12	1 unit	1 year	No Signature Required	None	Emphasizes public law, regulation of business, ethical considerations, and various relationships existing within society, government, and business. Specific attention is given to economic regulation, social regulation, labor-management issues, environmental issues, and contract fundamentals. This course analyzes the role of law in social, political, and economic change business environments. This course aligns with the Colorado Community College course Legal Environment of Business (BUS 216). Students will have the opportunity to earn high school credit while at the same time enroll in and earn community college credits with the opportunity to transfer credit to an institution of higher education. If the student is interested in earning community college credit, an additional free application is required. More information can be found at www.cherrycreekschools/cte on the Concurrent Enrollment tab. Students must have completed Introduction to Business in order to receive Concurrent Enrollment credit. Students are encouraged to join FBLA (Future Business Leaders of America).

Family and Consumer Sciences





Courses in the Family & Consumer Sciences Department explore a wide range of topics for students of all ability levels and interests, preparing them for the workforce and college majors with focus in the areas of Culinary Arts and Family. Students have the opportunity to develop culinary skills in the kitchen from a practical and science lab perspective. Students develop their sense of self through courses like Relationships & Child Development. Students interested in careers in education are encouraged to apply for the Teacher Cadet program. Completion of Foods & Nutrition and Relationships satisfy the school district Health requirement for graduation. Students have the chance to develop leadership skills in the co-curricular student association affiliated with this department—FCCLA (Family, Community and Career Leaders of America). This national organization will enhance learning in the classroom by allowing students the opportunity to participate in community service activities, competitive events and travel to leadership conferences.

9th Grade	10th Grade	11th Grade	12th Grade
Culinary Essentials I (Formerly: Food and Nutrition)			
	Culinary Essentials II (Formerly: Gourmet Foods)		
	Baking and Pastry		
Child and Adolescent Development (Formerly: Parenting & Child Development)			
Interpersonal Relationships (Formerly: Contemporary Relationships)			
Fashion Design and Merchandising 1			
Fashion Design and Merchandising 2			
		AP Fashion (Formerly AP 3D Studio Art)	
Interior Design 1: Residential			
Interior Design 2: Commercial			

Overland Family and Consumer Sciences (FACS) Program

Course Name	Grade Level	Credit	Course Length	Registration	Prerequisite	Course Description
Culinary Essentials I (Formerly: Food and Nutrition) 	9-12	1/2 unit	1 semester	No Signature Required	None	Fee - \$25. This course is designed to introduce students to a variety of culinary skills and food preparation. Through instruction and culinary lab practice, this class will provide an opportunity for students to learn food preparation and demonstrate food safety. Some topics include introductory culinary skills and preparation of items such as quick breads, yeast breads, and eggs; as well as meal and menu planning, nutrition, and food borne illnesses. Students will be able to: Demonstrate the correct procedures' and techniques in introductory culinary labs. Analyze nutritional guidelines and plan menus that are nutritionally balanced. Demonstrate food safety standards. Students are encouraged to participate in FCCLA projects, which include leadership opportunities, community service and/or competitions throughout the entire year.
Culinary Essentials II (Formerly: Gourmet Foods) 	10-12	1/2 unit	1 semester	No Signature Required	Successful completion of Culinary Essentials I	Fee - \$25. This intermediate culinary course is designed for students interested in exploring culinary careers, and to advance them to the next level of food preparation. The students will have the opportunity to prepare menu items that involve more detailed procedures, and practice techniques used in the culinary field. They will: Classify pasta types and create fresh pasta dishes. Prepare and evaluate nutritional value of various types of meats. Select herbs and spices to enhance flavors of foods. Apply techniques used in cake and cookie decorating. Develop skills in preparing advanced yeast breads and pastries. Identify the origins and prepare foods from different regions and cultures. Emphasize presentation throughout the course. Students are encouraged to participate in FCCLA projects, which include leadership opportunities, community service and/or competitions throughout the entire year.
Baking and Pastry I 	10-12	1/2 unit	1 semester	No Signature Required	None	Fee - \$25. This first semester course is intended for students who have an interest in pursuing a career in the hospitality and culinary industry. Combining advanced food science, restaurant management, food preparation techniques, and real-world internship opportunities, students, through baking and pastry arts, students learn to develop their culinary skills and food knowledge to become employable and sought after employees by local foodservice businesses.
Baking and Pastry 2 	10-12	1/2 unit	1 semester	No Signature Required	Successful completion of Baking and Pastry I	Fee - \$25. This second semester course is intended for students who have an interest in pursuing a career in the hospitality and culinary industry. Combining advanced food science, restaurant management, food preparation techniques, and real-world internship opportunities, students, through baking and pastry arts, students learn to develop their culinary skills and food knowledge to become employable and sought after employees by local foodservice businesses.
Interpersonal Relationships (Formerly: Contemporary Relationships) 	9-12	1/2 unit	1 semester	No Signature Required	None	The purpose of the course is to acquire academic knowledge and understanding for healthy, respectful, and caring relationships across the life span. Emphasis is placed on family and friendly dynamics, effective communication, and healthy interpersonal relationships. Students are encouraged to participate in FCCLA projects, which include leadership opportunities, community service and/or competitions throughout the entire year.
Child and Adolescent Relationships (Formerly: Parenting & Child Development) 	9-12	1/2 unit	1 semester	No Signature Required	None	The purpose of this course is to acquire knowledge and understanding of child and adolescent development necessary for strengthening the well-being of children and families. Content focuses on perspectives of human development, research and theories, understanding and nurturing development, and challenges to development. Students are encouraged to participate in FCCLA projects, which include leadership opportunities, community service and/or competitions throughout the entire year.
Fashion Design and Merchandising 1 	9-12	1/2 unit	1 semester	No Signature Required	None	Fee - \$25. The purpose of this course is to expose students to various aspects of the fashion design and merchandising industry. Students integrate knowledge, skills, and practices to evaluate potential career opportunities. Emphasis is placed on an introduction to fashion, fashion and textile selection, product construction and fashion merchandising. Students are encouraged to participate in FCCLA projects, which include leadership opportunities, community service and/or competitions throughout the entire year.

Overland Family and Consumer Sciences (FACS) Program

Course Name	Grade Level	Credit	Course Length	Registration	Prerequisite	Course Description
Fashion Design and Merchandising 2 	9-12	1/2 unit	1 semester	No Signature Required	Successful completion of Fashion Design & Merchandising 1	Fee - \$25. This course is for students who wish to increase their knowledge and further their skills in the fashion design and merchandising industry. Topics include fashion designers, careers, clothing selection, fibers and fabrics, and fashion illustration. Projects are planned and completed in relation to the student's individual interest and skill level. Students are encouraged to participate in FCCLA projects, which include leadership opportunities, community service and/or competitions throughout the entire year.
AP Fashion (Formerly AP 3D Studio Art) 	11-12	1 unit	1 year	No Signature Required	Successful completion of Fashion Design & Merchandising 1 and 2	Fee - \$25. Students will follow the college-board requirements for 3D Studio Art with an emphasis/concentration in fashion design. Students will take the knowledge learned from Fashion Design & Merchandising 1 and 2 to develop a portfolio of work.
Interior Design 1: Residential 	9-12	1/2 unit	1 semester	No Signature Required	None	Fee - \$25. The purpose of this course is to expose students to various aspects of the interior design industry and is based on the industry's professional standards (Council of Interior Design Accreditation-CIDA). The first semester focuses on residential design. Students integrate knowledge, skills and practices to evaluate potential career opportunities. Areas of focus include: Introduction to Residential and Commercial Design; Design Drawings; Professional Practices/Education; Design Elements and Principles; and the Design Process. Students are encouraged to participate in FCCLA projects, which include leadership opportunities, community service and/or competitions throughout the entire year.
Interior Design 2: Commercial 	9-12	1/2 unit	1 semester	No Signature Required	Successful completion of Interior Design 1: Residential	Fee - \$25. The purpose of this course is to expose students to various aspects of the interior design industry and is based on the industry's professional standards (Council of Interior Design Accreditation-CIDA). The first semester focuses on residential design. Students integrate knowledge, skills and practices to evaluate potential career opportunities. Areas of focus include: Introduction to Residential and Commercial Design; Design Drawings; Professional Practices/Education; Design Elements and Principles; and the Design Process. Students are encouraged to participate in FCCLA projects, which include leadership opportunities, community service and/or competitions throughout the entire year.

Physical Education and Health

Physical Education classes on the Overland-Prairie Campus offer a wide selection of courses for students of all ability levels and interests. Course offerings allow students to explore a variety of activities and topics of interest while fulfilling the high school requirement of 1.5 credits of Physical Education. These activities include our Personal Fitness classes such as, Swimming, Dance, Gymnastics, Body Works and Weight Training 1 & 2. We also offer our popular Recreational and Lifetime Sport Activities which include Team Sports and Individual Sports classes. All Overland students are required to take .5 credits of Health which is a course offered in our Physical Education department.

Psychology & Sociology of Sports is a traditional classroom class that is in our Academic Fitness classification. For our student athletes at Overland, we offer Athletic Fitness which is a class for the serious athlete wanting to increase their overall athletic strength and fitness levels. We look forward to your participation in the Overland Physical Education Department.

6th Grade		8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
Physical Education/Wellness 6	Physical Education/Wellness 7	Physical Education/Wellness 8	Individual Sports			
Health 6	Health 7	Health 8	Team Sports			
			Gymnastics (Dance)			
			Swimming			
			Weight Training 1			
	Prairie Access PE Electives:		Body Works			
	Basketball	Ropes Challenge Course		Athletic Weight Training (Boys & Girls)		
	Fitness Through Academics			Health		
	Survival			Weight Training 2		
				Unified/Adaptive PE Mentorship		
				Psychology & Sociology of Sports		

Prairie Physical Education Program

Course Name	Grade Level	Credit	Course Length	Registration	Prerequisite	Course Description
Physical Education/Wellness	6-8	N/A	1 semester	No Signature Required	None	Students are exposed to a rotation of team and individual sports that may include: flag football, floor hockey, basketball, pickle-ball, badminton, volleyball, lacrosse, field hockey, softball, soccer, ringette and fitness. This course focuses on the Colorado State Standards for Physical Education. This focus is on physical and personal wellness, movement and skill development, prevention and risk management along with the knowledge needed for games and activities. Daily activities improve flexibility, muscular strength, muscular endurance, cardiovascular endurance and body composition, which develop students for optimal growth and development. The fee includes the uniform shirt (\$7.00), shorts (\$13.00), and PE lock (\$5.00).
Health	6-8	N/A	1 semester	No Signature Required	None	Students are exposed to many health related topics that may include: self-esteem, goal setting, stress management, communication, refusal skills, conflict resolution, human growth and development, and substance abuse. Resiliency, accessing and utilizing resources, decision-making, problem-solving, refusal skills and emotional and social wellness are all key skills within the health curriculum.

Overland Physical Education Program

Course Name	Grade Level	Credit	Course Length	Registration	Prerequisite	Course Description
Individual Sports	9-12	1/2 unit	1 semester	No Signature Required	None	This course offers students an introduction or review, through participation, of recreational lifetime sports. The course covers sports and activities such as tennis, lawn games, table tennis, bowling (fee involved), and pickle ball. During each unit students are introduced to the skills, strategies, and rules of play. Students may also receive limited exposure to a variety of other recreational game and activities designed to promote participation and enhance the overall importance of game play towards lifetime physical health. This course also has a fitness component that is used to prepare students to engage more safely into activity and game play. This course meets the district physical education skill proficiency requirement for graduation.
Team Sports	9-12	1/2 unit	1 semester	No Signature Required	None	This course offers students a variety of competitive and recreational activities involving team play. Sports covered are: flag football, soccer, softball, basketball, volleyball, kickball, team handball, ultimate frisbee, and floor hockey. Each unit will include instruction focused on developing basic skills and knowledge regarding the sport. Although primary emphasis is on team sports, students may also receive some exposure to a limited number of other recreational games and activities designed to promote participation and enhance the overall importance of game play towards physical health. This course also has a fitness component that is used to prepare students to engage more safely into activity and game play. This course meets the district physical education skill proficiency requirement for graduation.
Gymnastics (Dance)	9-12	1/2 unit	1 semester	No Signature Required	None	This is an introductory course with the first nine weeks focusing on the basic techniques and safety of gymnastics on every apparatus. Facility limitations relegate apparatus instruction to the Balance Beam, Uneven Parallel Bars, and very basic work on Floor Exercise (tumbling, dance, etc.). Through guided instruction, each student will develop at his or her own individual pace and skill level. The second nine weeks will be devoted to an introduction and development of a variety of basic dance techniques. This course also has a fitness component that is used to prepare students to engage more safely into activity and game play. This course meets the district physical education skill proficiency requirement for graduation.
Swimming	9-12	1/2 unit	1 semester	No Signature Required	Must be able to swim	This is an individualized class that allows swimmers an opportunity to improve water skills and personal fitness. Students will learn how to apply their skills toward setting and achieving individual fitness goals through supervised lap swim. Students must be able to swim a length of the pool. This class meets the district physical education proficiency for fitness of skill for graduation. (Students need to feel comfortable in deep water).
Weight Training 1	9-12	1/2 unit	1 semester	No Signature Required	None	This class serves as an introduction to the basic principles of weight lifting. The focus is to increase strength by lifting weights up to three times per week through many different forms of weight and strength training. The five components of fitness are taught with an emphasis on muscular strength, cardiovascular endurance and flexibility.

Overland Physical Education Program

Course Name	Grade Level	Credit	Course Length	Registration	Prerequisite	Course Description
Body Works	9-12	1/2 unit	1 semester	No Signature Required	None	This course provides experiences in a variety of exercise methods and weight training routines. Emphasis on developing muscle tone and strength as well as other fitness components including flexibility and cardiovascular training. Yoga, Pilates, and CrossFit Training will be incorporated in this class. Nutritional information regarding healthy eating habits will also be taught in conjunction with proper exercise to enhance fitness and reduce body fat. This class meets the district physical education fitness proficiency requirement for graduation.
Athletic Weight Training (Boys & Girls)	10-12	1/2 unit	1 semester	Coach's Signature Required	Approval of Teacher/Head Coach	This course is designed for the OHS student athlete and will develop his five components of fitness (flexibility, muscular strength, muscular endurance, agility, and cardiovascular endurance) through specific sport training. The cognitive aspects of training, including: body composition, nutrition, psychology, anatomy, physiology and injury prevention, will enhance the overall wellness of the individual. The outcome of this class is peak performance at a highly competitive level, as well as, promoting fitness for life. This class meets the district physical education fitness proficiency requirement for graduation.
Health	10-12	1/2 unit	1 semester	No Signature Required	None	This class focuses on issues and concepts of personal health as they apply to mental, emotional, physical, and social well being. The purpose of Health is to assist students in acquiring knowledge on various health-related issues so they make informed decisions and understand the control the individual has over his or her health. Topics include stress and conflict management, nutrition, addiction, eating disorders, disease, relationships, environmental and hereditary influences on health, and more. This course meets the district health education proficiency requirement for graduation.
Weight Training 2	10-12	1/2 unit	1 semester	No Signature Required	Weight Training 1 with a grade of "B" or higher	This class offers students who have completed Weight Training 1 an opportunity to expand their weight training experiences. Emphasis is on applying exercise principles to design personalized strength, endurance and toning programs. This class meets the district physical education fitness proficiency requirement for graduation.
Psychology & Sociology of Sports	11-12	1/2 unit	1 semester	No Signature Required	None	This course examines the dominating influence that sport has on our society. During the semester students explore the relationship of sport to religion, education, values, economics, politics, media, and entertainment. Topics covering specific issues and controversies in sport include racism, drugs, ethics, competition, women, children, violence and future trends. In addition, the class explores individual behavior in sport. Discussions will include the personality characteristics of the athlete, coach, and even the sports fan. Students examine individual motivation, aggression, anxiety, and different mental states in relation to athletic performance.
Unified/Adaptive PE Mentorship	11-12	1/2 unit	1 semester	Teacher signature or approval required	Coach, Teacher or Counselor recommendation	This course provides students the opportunity to earn Physical Education credit by assisting and mentoring special needs students in our Adaptive/Unified PE class. Students will not be required to dress out for class, but will be responsible for actively mentoring and assisting SAS students in a variety of activities. This class is for the student who has a desire to help other students and must be willing to be actively involved with game play and a variety of other sport activities.

Overland Physical Education Program

Course Name	Grade Level	Credit	Course Length	Registration	Prerequisite	Course Description
Personal Fitness 1 (Online)	9-12	1/2 unit	1 semester	Counselor Signature Required	None	Students in Personal Fitness 1 learn about the components of fitness and wellness in order to establish a personal fitness plan that will be implemented throughout the semester. Although this is an online class, the course standards do require students to participate in weekly cardiovascular, flexibility, strength and endurance exercise. Students are issued heart rate monitors to measure progress and must exercise 150 minutes per week in their target heart rate zone (143-173 beats per minute) in addition to written work and other exercise. Students are required to attend four fitness-testing sessions throughout the semester (dates will be announced before the semester begins).
Personal Fitness 2 (Online)	9-12	1/2 unit	1 semester	Counselor Signature Required	Personal Fitness I	Students in Personal Fitness 2 continue to work their fitness goals and plans developed in Personal Fitness I. Students will be required to participate in weekly cardiovascular, flexibility, strength and endurance exercise. Students are issued a heart rate monitor to measure their progress and must exercise 180 minutes per week in their target heart rate zone (143-173 beats per minute) in addition to written work and other exercise. Students are required to attend four fitness-testing sessions throughout the semester (dates will be announced before the semester begins).
Health (Online)	10-12	1/2 unit (fulfills District Health Requirement)	1 semester	Counselor Signature Required	None	Health focuses on issues and components of personal health as they apply to the mental, physical, social and emotional well-being. Topics include nutrition, fitness, stress management, mental health behaviors, sexuality, substance abuse, disease disorders and safety. This course meets the district health education proficiency requirement for graduation.

Special Programs and Support Classes

Opportunities for leadership and college preparation are offered through special courses offered to students at Prairie and Overland. These courses allow students to explore positions of leadership, community and school-based projects, and skills required for success at the secondary and collegiate level.

Prairie Special Programs and Support Classes

Course Name	Grade Level	Credit	Course Length	Registration	Prerequisite	Course Description
AVID 6, 7 & 8 (Advancement via Individual Determination)	6-8	N/A	1 year	Teacher Signature Required	Interview & Teacher Approval	This three-year course is designed to support students in the middle that seek college preparatory experiences. AVID provides academic instruction and support to students, prepares them for high school and eligibility to four-year colleges and universities, increases their coping skills, and further motivates program participants to seek out areas of interest, appropriate colleges, and resulting careers.

Overland Special Programs and Support Classes

Course Name	Grade Level	Credit	Course Length	Registration	Prerequisite	Course Description
Intensive Reading (must be taken with an English class)	9-10	1/2 unit	1 semester	Counselor Signature Required	Demonstrates below-basic proficiency in reading	This Intensive Reading course will provide students who read at least two years below grade level with an intensive exposure to a variety of reading strategies to become proficient readers. These reading techniques may include detecting sequences, making inferences, drawing appropriate conclusions, and developing critical thinking skills. This is a general elective credit.
OTIP (Overland's Targeted Interventions Program)	10-12	1/2 unit	1 semester	Counselor Signature Required	Dean or Teacher Recommendation	OTIP is a one-semester class for sophomores and juniors designed to provide student support in three areas: Academic Tutorials (students provided with time and assistance to complete homework assignments and study for tests), Study Skills (students learn important skills to improve academic success such as organizational tips, note-taking, and test-taking strategies), and Engagement (students work with OTIP teachers to achieve success both in and out of the classroom). Students do not sign up for OTIP during registration.
SOAR	10-12	Elective 1 unit	1 year	Teacher Signature Required	Application, Interview, Parent Approval, 2-Day Beyond Diversity Training	Students will work to develop positive racial identities while analyzing how race has shaped their educational experience by having Courageous Conversations About Race, and internalizing protocol. Students will work to create events for other students to develop positive racial identities. Students will help to design staff professional development around racial consciousness for staff. Students will work to create a platform where student voice is part of systemic changes happening in the school and the district.
AVID 9, 10 & 11 (Advancement via Individual Determination)	9-11	1 unit	1 year	Teacher Approval	Application & Instructor Approval	This four-year course is designed to support students with GPA's ranging from 2.5 to 3.5, who have not had previous success in CP accelerated, or AP classes, but seek the college preparatory experience these challenging courses offer. AVID provides academic instruction and support to students, prepares them for eligibility to four-year colleges and universities, gives students college-level skills, increases their coping skills, and further motivates program participants to seek out areas of interest, appropriate colleges, and resulting careers. Participants in the AVID program will visit a variety of universities in Colorado, and will learn about various careers through guest speakers and job shadowing. This program is for college-bound students, and requires participation throughout high school. If you are interested in becoming a part of the AVID program, please see Mrs. Billings in 230C.
Advisory	9-12	1/2 unit	1 year	No Signature Required	None	Advisory is an opportunity to create space and time within the school environment to allow students and staff to build caring, stable, trusting relationships that support the social-emotional and academic growth of students.

Overland Special Programs and Support Classes

Course Name	Grade Level	Credit	Course Length	Registration	Prerequisite	Course Description
Student Assistant	9-12	1/2 unit	1 semester	Teacher Signature Required	Written Instructor Approval	This course is designed for students expressing a desire in assisting a particular teacher or office with clerical and other tasks as needed. This course is to be selected only in addition to the six required classes. This course is considered an "extra" class for students.
Freshman Seminar (1st Semester)	9	1/2 unit	1 semester	Counselor Signature Required	Concurrent Enrollment with AP Geography	This course supports 9th-graders in their transition from middle school into high school and academically supports their coursework in AP Geography.
Freshman Seminar (2nd Semester)	9	1/2 unit	1 semester	Counselor Signature Required	Dean Recommendation	This course continues to supports 9th-graders in their transition from middle school into high school during the second semester of their freshman year in math and English.
Computer Academy (Plato) (Formerly: OCAP Overland Computer Academy Program)	11-12	Determined by classroom performance	1 semester	Counselor Signature Required	Teacher or Counselor Recommendation	Students enrolled in Computer Academy will participate in a web-based program called Edmentum. Students will have the opportunity to recover credits towards graduation that they have previously failed in the traditional education setting. The maximum number of credits any student may earn through Computer Academy is two credits or a max of 4 courses.
Student Leadership	10-12	1 unit	1 year	Teacher Signature Required	Teacher Recommendation	This course is designed to develop and enhance the leadership potential in OHS students targeting leaders from different groups (i.e. Athletics, Student Council, Gifted and Talented, Performing Arts, etc.). Students learn the concepts and characteristics of leadership, as well as, analyze their own leadership styles. Additionally, students work in groups on community/school-based projects to enhance the overall atmosphere of our school and the surrounding community. For student council members this would provide a chance for officers and sponsors to work together during the school day on leadership skills and the organization of activities. Finally, the concepts of safety, trust, attitude, assets, respect and sportsmanship will be addressed.
Executive Internship Program (Fall Semester) <div>IST</div>	11-12	3 units (to include 1/2 English & 1/2 Soc. Studies credits)	1 semester	Teacher Signature Required	Application & Personal Interview	Students who are interested in an in-depth exposure to a career or profession should consider application. Students spend a full semester with an executive in business, government, or the professions. Internships are available to match most career plans. The intern spends a minimum of 28 hours per week in the organization completing work assignments, attending meetings, and developing special projects for the sponsor. In addition, interns participate in weekly seminars to share and generalize their experiences. Interns may be able to participate in a first hour class or an extra-curricular activity at Overland, but the internship is demanding and most commitments should be planned for other semesters. Interns keep daily journals, achieve and maintain high performance, and develop a semester project.
Executive Internship Program (Spring Semester) <div>IST</div>	11-12	3 units (to include 1/2 English & 1/2 Soc. Studies credits)	1 semester	Teacher Signature Required	Application & Personal Interview	Students who are interested in an in-depth exposure to a career or profession should consider application. Students spend a full semester with an executive in business, government, or the professions. Internships are available to match most career plans. The intern spends a minimum of 28 hours per week in the organization completing work assignments, attending meetings, and developing special projects for the sponsor. In addition, interns participate in weekly seminars to share and generalize their experiences. Interns may be able to participate in a first hour class or an extra-curricular activity at Overland, but the internship is demanding and most commitments should be planned for other semesters. Interns keep daily journals, achieve and maintain high performance, and develop a semester project.
AVID 12	12	1 unit	1 year	Teacher Approval	Enrollment in AVID 11 & Instructor Approval	AVID 12 focuses on the college admission process, applications, and preparing essays, etc. Must be in AVID 11 prior to AVID 12. There is no application process. This course is a Concurrent Enrollment course through the Community College of Aurora.
Peer Ambassadors	10-12	1/2 unit	1 semester	Counselor Approval	Proficient in Math and English	Peer Ambassadors are tutoring to help 9th-grade students in math or English. Tutors will be current 10th, 11th, and 12th graders who will train to be peer tutors. This section is a full period class for Peer Ambassadors to be a mentor and a tutor for the freshman class and as support for our freshman transition program, Blazer 101.
Blazer 101	9	1/2 unit	1 semester	Counselor Approval	None	This course is the Freshman transition program! Students in this class will work on transitioning as a student from the middle years into high school. Students spend time understanding the new academic environment of a high school and learning how to navigate their high school career. Peer Ambassadors work with Freshmen in this program as mentors who also support their academics.
Blazer 201	10-12	1/2 unit	1 semester	Counselor Approval	New Student to CCSD	Full period class designed to support students in grades 10-12 who are new to CCSD and transitioning to a new school. Students in this class spend instructional time on community and building up academic gaps in math and English through ACT/SAT study sessions.

Student Achievement Services

Student Achievement Services offers a continuum of services for students who have an Individualized Education Plan (IEP). Course offerings allow students to have support in regular education classes as well as direct instruction in core content areas. Our continuum of services is designed to meet the individual needs of each student with an IEP. Since an IEP is required for placement in these classes, students should consult with their counselor and case manager to enroll in these classes.

Along with providing intensive supported instruction, SAS provides support through teamed taught instruction in core academic areas. These classes include Math 6-8, Algebra 1, Algebra 2, Geometry, Language Arts 6-8, English 9-12, Government, and U.S. History.

6th Grade	7th Grade	8th Grade	9th Grade	10th Grade	11th Grade	12th Grade	Integrated Learning Community
Supplemental Intensive Reading			English 9/Teamed	English 10/Teamed	English 11/Teamed	English 12/ Teamed	ILC Practical English (ILC Reading, Life Skills English)
			Elements of English 9	Elements of English 10			
Supplemental Math							
ILC - Integrated Learning Community			Algebra 1/Teamed	Geometry/ Teamed	Algebra 2/Teamed (E.D.)		
SED: Affective Education							ILC Social Studies 1, 2
In-class Support			Elements of Algebra	Elements of Geometry	Elements of Math		ILC Math 1, 2
Supplemental Reading Comprehension							
			World History/ Teamed	Government/Teamed	U.S. History/Teamed		ILC Consumer Math
							ILC Science
					Work Experience/Career Exploration		
			Affective Education				ILC World of Work & Community ILC Domestic Science Pre-vocational ILC General Skills 18-21 Step-Up! Transition Program

Prairie Student Achievement Services Program

Course Name	Grade Level	Credit	Course Length	Registration	Prerequisite	Course Description
Supplemental Intensive Reading	6-8	N/A	1 year	No Signature Required	Must have current IEP	Designed to use a variety of programs, curriculums and strategies to help students become better readers. Intended for students who struggle with decoding of multi-syllable words and are reading significantly below grade level. Research-based, direct instruction will be employed in the areas of phonemic awareness, morphology, sound-spelling correspondences, grammar, oral and written responses to higher level questions based on Blooms Taxonomy, and paragraph and essay development.
Supplemental Math	6-8	N/A	1 year	No Signature Required	Must have current IEP	The goal of Supplemental Math is to work on developing and strengthening conceptual understanding in math while increasing fluency in basic math facts. The curriculum is designed to address misconceptions, support vocabulary development and build communication skills in math. Students who are in this class are in a regular education grade level math class and also receive supplemental math support in a small group setting. Students work through various modules that are designed to address certain sub areas of math. Supplemental math also supports and incorporates strategies used in the general education curriculum.
Supplemental Reading Comprehension	6 - 8	N/A	1 year	No Signature Required	Must have current IEP	Students in reading comprehension support classes will engage in fitional and non-fictional texts to build on literary knowledge and understanding. Classroom instruction will integrate vocabulary development, and students will improve reading and writing skills by completing assorted creative and expository writings, responding to prompts, and examining a variety of texts with guided practice and modeling of reading strategies.
ILC: Intergrated Learning Community	6-8	N/A	1 year	No Signature Required	Must have current IEP	These courses are designed for students in the ILC (Integrated Learning Center) Program. Students work on foundational skills in Reading, Writing, Math, and other Life Skills.
SED: Affective Education	6-8	N/A	1 year	No Signature Required	Must have current IEP	Students in this class have an IEP with goals in social/emotional areas. Students work on understanding situations and how this impacts their day to day activities.

Overland Student Achievement Services Program

Course Name	Grade Level	Credit	Course Length	Registration	Prerequisite	Course Description
Elements of English 9	9	1 unit	1 Year	No Signature Required	Must have current IEP	This course is recommended for 9 th grade students who are in need of significant review of basic English concepts. Students taking this course will receive instruction in basic reading and writing skills utilizing a modified version of English 9. The topics will include oral presentations, listening skills, reading and interpreting more complex literary and informational texts, writing narrative, informational, and persuasive texts, working to revise grammar, usage, and mechanics to achieve greater clarity in his/her own writing, and analyzing informational materials, including electronic sources, for their relevance and accuracy.
Elements of English 10	10	1 unit	1 Year	No Signature Required	Must have current IEP	This course is recommended for 10 th grade students who are in need of significant review of basic English concepts. Students taking this course will receive instruction in basic reading and writing skills utilizing a modified version of English 10. The topics will include oral presentations, listening skills, reading and interpreting literary, informational, and persuasive manuscripts in order to develop ideas and to understand traditional and contemporary texts, writing narrative, informational, and persuasive texts, working to revise grammar, usage, and mechanics to achieve greater clarity in his/her own writing, and evaluate the validity of multiple sources while collecting information in order to answer a question, propose solutions, or share findings.
Elements of Algebra	9	2 units	1 year	No Signature Required	Must have current IEP	Students taking this course will receive instruction in basic arithmetic skills utilizing a modified version of Algebra 1 for freshmen students. The topics covered include sets, the real number system and its properties, operations with polynomials, linear equations, inequalities, systems of equations, factoring polynomials, graphing, radicals, and quadratic equations. This class utilizes an interactive, hands-on approach for students to master these basic algebra concepts. This course provides the required background necessary for the successful completion of Elements of Geometry and Elements of Math. Problem solving is emphasized and students use current technology including calculators and computers.

Overland Student Achievement Services Program

Course Name	Grade Level	Credit	Course Length	Registration	Prerequisite	Course Description
Elements of Geometry	10	1 unit	1 year	No Signature Required	Must have current IEP	This course is the second year of the sequence of Elements of Algebra, Elements of Geometry, and Elements of Math. Students taking this course will receive instruction in basic arithmetic skills utilizing a modified version of Geometry for sophomore students. The topics include reasoning and proof, perpendicular and parallel lines, triangles, quadrilaterals, similarity, right triangle trigonometry, circles, area, and volume. It offers students many opportunities to explore geometric situations, develop concepts, and use theorems and postulates to solve applications. Students will learn to communicate reasoning through proofs and other forms of writing. The course provides continued use of algebra skills integrated into geometry concepts.
Elements of Math	11-12	2 units	1 year	No Signature Required	Must have current IEP	This course is the 3rd and 4th year of the SAS math sequence for juniors and seniors. Students taking this course will receive instruction in basic arithmetic skills utilizing a modified version of Algebra 2, Discreet Math and Probability and Statistics. Additionally, the course uses math components from Business and Personal Finance. The topics covered are solving systems of equations and inequalities, social choice and graphical theory, interpretation of statistical data, computation of probabilities given events, frequency distributions, and application of random sampling to probability, decision making, earning a living, managing finances and budgeting, saving and investing, buying goods and services, banking, using credit, and protecting against risk. This class is taught with a two-year rotation of curriculum so that students are not receiving the same instruction. This class provides continued use of Algebra and Geometry skills that re necessary for juniors and seniors taking high stakes tests for post high school choices.
Work Experience/Career Exploration	10-12	1/2 unit	1 semester	Signature Required	Must have current IEP	This class is only for seniors. In this class students have opportunities to learn how to advocate for their learning styles that support them in career exploration, and post-secondary education and / or training. Students engage in employment training, budgeting for a lifestyle, and social skills training. This course meets Post-Secondary Outcomes per the students' IEP. Students learn to make informed decisions through reading, writing, thinking, and asking questions in real world applications.
Affective Education	9-12	1 unit	1 year	Signature Required	Must have current IEP	The Affective Education class is for students with severe emotional learning needs. Students in this will receive affective needs instruction and English instruction every day in conjunction with taking other core and elective classes throughout the building.
ILC Practical English (ILC Reading, Life Skills English)	9-12	1 unit	1 year	No Signature Required	Must have current IEP	This course is designed for students in the ILC Program. This class is designed for ILC students to develop functional English skills. Major emphasis is placed on reading for job or community survival, functional writing, vocabulary, grammar and speech.
ILC Social Studies 1 & 2	9-12	1/2 unit	1 semester	No Signature Required	Must have current IEP	This course is designed for students to introduce and review functional community/social skills. Students explore functional words/signs, geography, maps (including bus schedules and routes), laws, job skills, and different racial and ethnic cultures.
ILC Math 1 & 2	9-12	1 unit	1 year	No Signature Required	Must have current IEP	This course is designed to develop functional math skills. Major emphasis is placed on all functional skill areas, such as money/budgeting, time, measurement/cooking and word problem solving. Students also develop basic mathematic skills.
ILC Consumer Math	9-12	1 unit	1 year	No Signature Required	Must have current IEP	This course is designed for students to support and develop functional math skills through systematic and explicit instruction. This class follows the guiding principles of access for all, repetition and practice, systematic and explicit instruction, and will follow a research based and regimented pacing guide, spending adequate time on each lesson to insure student success and understanding. Included in the scope and sequence of this course are patterns, graphing, probability, matching, calendar skills, measurement, money, and time skills.
ILC Science	9-12	1/2 unit	1 semester	No Signature Required	Must have current IEP	This course is designed for students to investigate topics in the fields of health, biology, Earth science, ecology, and chemistry. Throughout the course, science concepts are explained using familiar everyday examples.

Overland Student Achievement Services Program

Course Name	Grade Level	Credit	Course Length	Registration	Prerequisite	Course Description
ILC World of Work & Pre-Vocational	9-12	1 unit	1 year	No Signature Required	Must have current IEP	This course is designed for students to transfer all learning that has taken place in the classroom into the community in a functional, applied manner. Some of the trained skills may include doing personal grocery shopping, making snack and meal purchases, enjoying recreational activities in the community, community safety, and becoming trained in accessing RTD transportation.
ILC Domestic Science	9-12	1 unit	1 year	No Signature Required	Must have current IEP	This course is designed for students to develop functional life skills. Major emphasis is placed on cooking, hygiene, social skills, communication and functional curriculum.
ILC General Skills	9-12	1 unit	1 year	No Signature Required	Must have current IEP	This course is designed for students to develop functional life skills. Course includes using TEACCH methodology and structured tasks to increase independence and ability to function in the community. Students work on hygiene, social skills, communication, leisure skills, vocational training, sensory-motor skills, and functional curriculum.
18-21 Step-Up! Transition Program						This is an optional program for students who have completed their high school credit requirements. Eligible students continue to have needs in preparing for the transition to adult life and may participate in the 18-21 Step-Up! Transition Program. This is a community-based program. Eligible students participate in work experience, recreation and leisure activities, small group instruction, and other activities. Students will be required to bring a daily sack lunch. Nominal fees will be requested for transportation and recreational activities.



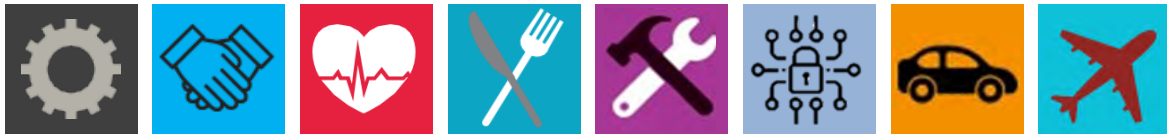
CHERRY CREEK
INNOVATION CAMPUS



CHERRY CREEK INNOVATION CAMPUS

2021-2022 Course Catalog

www.cherrycreekschools.org/CCIC



APPLY TO CCIC



CCIC WEBSITE



CCIC VIRTUAL TOUR



CCIC PROGRAMS EXPLAINED



Career & Technical Education (CTE) is a national program with courses teaching core academics, technical, and job-specific skills. CTE classes and programs like internships and apprenticeships, are designed to provide students with tools necessary to succeed in post-secondary education and career. All high schools in the Cherry Creek School District offer CTE courses.



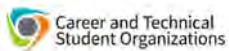
Cherry Creek Innovation Campus (CCIC) is a stand-alone CTE facility which opened in August, 2019. Courses at the CCIC align with the industry standards for seven in-demand and growing career pathways. Many courses offer core academic credit in English, Math, or Science and/or college credit. Transportation to and from CCIC is provided at all home high schools.



Concurrent Enrollment / Dual Enrollment (CE/DE) is an opportunity for students to earn high school and college credit simultaneously. Many courses in the Cherry Creek School District (CCSD) offer concurrent/dual enrollment credit through local colleges. As an additional benefit, CCSD will pay the tuition for students who apply for the College Opportunity Fund (COF). College credit can only be earned with a grade of 'C' or better.



Industry Certifications and Certificates are available in many CTE programs. An industry certification/certificate is recognized by business and industry at the local, state or national level. These certificates measure competency in an occupation, and they validate the knowledge base and skills that show mastery in a particular industry. Some certifications and certificates will be accepted for a student's demonstration of learning according to Graduation Guidelines. See your counselor for more information.



Career & Technical Student Organizations (CTSO) are key components to strong CTE programs. These student run organizations develop business and industry-specific skills, procedures, and values that align with coursework, activities, and events in the classroom and greater community. Students also have the opportunity to demonstrate these acquired skills at regional, state and national competitions.

CCIC REGISTRATION PROCESS

To register for CCIC courses:

Step 1: ICAP Planning

Use your ICAP to help select a CTE pathway that fits your career and academic goals. Based on your career goals, you may choose to apply for a CTE course that is offered at the Cherry Creek Innovation Campus (CCIC), or through the District CTE program.

Step 2: Course Selection

Use the information in the course catalog to help plan your course selection. Make sure you meet the grade-level requirements and any prerequisites required.

Step 3: Counselor Input

After you've selected a CCIC or District CTE course that fits your ICAP, consult your counselor to ensure the courses will fit with your home high school schedule and will allow you to complete all courses necessary for graduation.

Step 4: Application

Once you have received counselor approval, complete the [online application](#), opening on **January 19, 2021**. A link to the online application can be found on the CCIC website and in registration links on home high school websites. **Applications must be submitted by Friday, March 5, 2021.** In addition to the application, some courses may require a supplemental application and/or attendance at an informational meeting.

Step 5: Confirmation

After submitting an application, you will receive a confirmation email, as well as information regarding additional application requirements. Note that all application requirements must be completed in order to be considered for acceptance. Notification of acceptance into a CCIC or District CTE course will occur by email in late April/early May.

APPLICATION DUE: FRIDAY, MARCH 5, 2021

Transportation provided to and from each home high school.
Financial assistance available to students who qualify.

NOTIFICATION OF NONDISCRIMINATION

Cherry Creek School District No. 5 does not discriminate on the basis of race, color, national origin, sex, age, sexual orientation or disability in admission to its programs, services, or activities, in access to them, in treatment of individuals, or in any aspect of their operations. The Cherry Creek School District No. 5 Career and Technical Education Department does not discriminate in enrollment or access to any of the programs available. The lack of English language skills shall not be a barrier to admission or participation in the district's activities and programs. The Cherry Creek School District also does not discriminate in its hiring or employment practices.

This notice is provided as required by Title VI of the Civil Rights Act of 1964, Section 504 of the Rehabilitation Act of 1973, Title IX of the Education Amendments of 1972, the Age Discrimination Act of 1975, and the Americans with Disabilities Act of 1990. Questions, complaints, or requests for additional information regarding these laws may be forwarded to the designated compliance coordinator: Ms. Stephanie Davies, District Compliance Officer, Educational Services Center, 4700 S. Yosemite St., Greenwood Village, CO 80111, (720) 554-4471. or directly to the U.S. Department of Education, Office for Civil Rights, Region VIII, Federal Office Building, 1244 North Speer Blvd., Suite #310, Denver, CO 80204

CCIC CORE CLASSES

CCIC core content is integrated within our pathway curriculum and meets district core standards requirements for graduation.

EngA

CP Innovator's English A - In this integrative English course, students demonstrate career & college readiness, developing leadership, reading, & writing skills that will make them successful in the post-secondary realm. Students in this course also participate in many collaborative settings where they will use rhetorical strategies to reach a decision with others who have diverse ideas. To be successful, students must contribute to conversations in professional manners. Students write compositions & responses in argumentative/persuasive form to further enhance knowledge of career-related issues & inquiry, inviting cultural communication and diversity into their writing and conversations. Finally, students will also conduct short, sustained research as well as complete an APA research paper.

EngB

CP Innovator's English B - This course will provide the foundation for employment and prepare students for postsecondary success. It will also use an active learning approach in writing, reading, and communication processes to integrate topics into potential careers. Students will study rhetorical devices and their use in writing and speeches to inform or persuade an audience.

EngC

CP Innovator's English C – This integrated English course teaches the fundamentals of writing and pathway or industry-specific technical documents with structure, organization, diction, style, revision, editing and mechanics. Students will write for specific industry-related purposes including, but not limited to: professional emails, training manuals, business proposals, blog creation and response, professional interviewing, podcast creation, and social media content writing. Finally, students will conduct research as necessary for the pathway and industry curriculum, gathering relevant information from multiple print sources related to the task. By the end of the course, students will be able to read, analyze, summarize, and apply technical information and plain language as appropriate for career preparation. * This course may offer CE Credit and be repeated.

MthA

CP Innovator's Math Topics A - This course will extend students' proficiency in fundamental arithmetic topics to in-depth analysis of plane, solid, and coordinate geometry as they relate to both abstract mathematical concepts as well as real-world problem situations.

MthB

CP Innovator's Math Topics B - This course will extend students' proficiency in fundamental arithmetic topics to more advanced algebraic topics, including the application of trigonometric functions, standard deviation, matrix and vector analysis, logarithmic and exponential relationships, and linear systems.

MthC

CP Innovator's Math Topics C - This course will extend students' proficiency in the use of data structures to organize large sets of data, the development and implementation of algorithms to process data and discover new information, and the analysis of potential solutions.

MthD

CP Innovator's Math Topics D – Innovator's Math D will expand on students' proficiency in number theory and discrete mathematics topics as it applies to technology. Topics may include number systems, basic combinatorics, modular arithmetic, and prime numbers. This course can be repeated for credit.

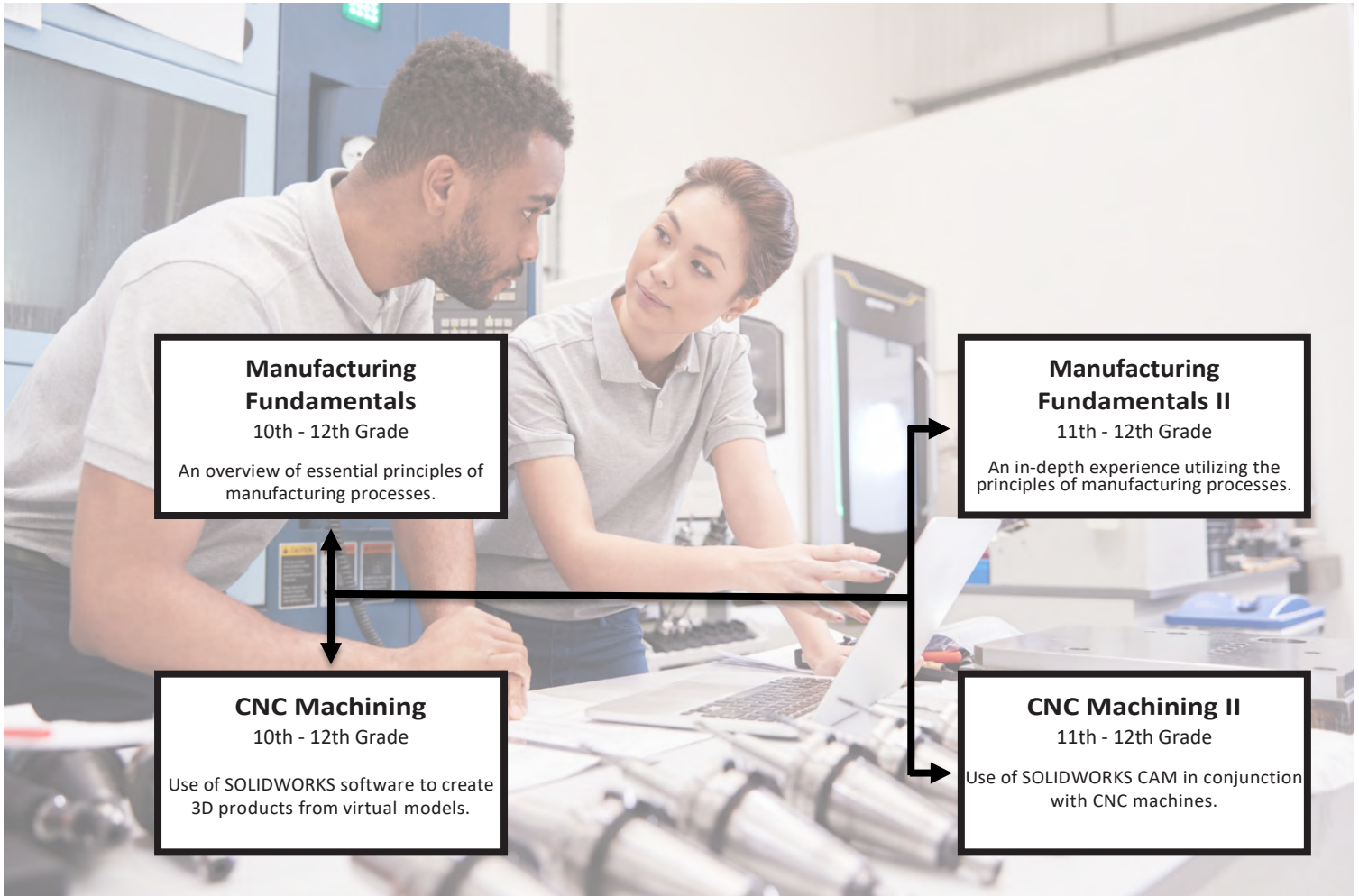
LifSci

Innovator's Life Science - Students will use a full range of science and engineering practices to make sense of natural phenomena and solve problems that require an understanding of how individual organisms are configured and how these structures function to support life, growth, behavior and reproduction.

PhySci

Innovator's Physical Science - Students can use the full range of science and engineering practices to make sense of natural phenomena and solve problems that require understanding structure, properties and interactions of matter.

* All CCIC core classes are NCAA approved.



MANUFACTURING FUNDAMENTALS

GRADES: 10-12

LENGTH: 1 SEMESTER

CREDITS: .5 CTE/ .5 MTH B

EST. FEES: \$140

Prerequisites: N/A

Concurrent Enrollment: N/A

Certifications: National Institute of Metalworking Skills (NIMS) upon completion of pathway

Course Description: This course is designed to provide students with the skills and knowledge to be effective in production environments as a machinist, CNC operator, or supervisor. Upon completion of this course, proficient students will demonstrate safety practices concerning machining technology, proper measurement and layout techniques, reading and interpreting drawings and blueprints, production design processes, and quality control procedures. Students will complete projects using various manufacturing techniques and build intermediate skills involving manufacturing techniques. Upon completion of this course, students will be knowledgeable about potential postsecondary education and career opportunities related to machining technology and will be prepared to enroll in more advanced machining courses in high school. Students will create real world projects using CNC Plasma Cutters, Water Jet Cutters Routers, Injection Molders and Vacuum Formers.

Suggested prerequisites include CAD (Computer Aided Design) or CAD for Fabrication.

MthB



CNC MACHINING

GRADES: 10-12

LENGTH: 1 SEMESTER

CREDITS: .5 CTE/ .5 MTH B

EST. FEES: \$140

Prerequisites: N/A

Concurrent Enrollment: N/A

Certifications: National Institute of Metalworking Skills (NIMS) upon completion of pathway

Course Description: This course covers fundamentals of computer numerical control (CNC), basic programming, machine setup and operation of CNC machines. The course begins with manual programming practices so that the student will understand the programming code and its structure. G & M codes, control functions, the letter address system, and math issues related to CNC are included. Standard safety conventions will be introduced for safe programming practice. This course allows for the further development of CNC skills with hands-on instruction related to the CNC milling machines, and CNC turning centers. The lab work includes operation of CNC machines to demonstrate the programming skills.

Suggested prerequisites include CAD (Computer Aided Design) or CAD for Fabrication.

MthB

MANUFACTURING FUNDAMENTALS II

GRADES: 11-12

LENGTH: 1 YEAR

CREDITS: 1.0 CTE/ 1.0 MTH B

EST. FEES: \$110

Prerequisites: Manufacturing Fundamentals and CNC Machining

Concurrent Enrollment: N/A

Certifications: National Institute of Metalworking Skills (NIMS) upon completion of pathway

Course Description: This course is designed to provide students with the skills and knowledge to be effective in production environments as a machinist, CNC operator, or supervisor. Upon completion of this course, proficient students will demonstrate safety practices concerning machining technology, proper measurement and layout techniques, reading and interpreting drawings and blueprints, production design processes, and quality control procedures. Students will complete projects using various manufacturing techniques and build intermediate skills involving manufacturing techniques. Upon completion of this course, students will be knowledgeable about potential postsecondary education and career opportunities related to machining technology and will be prepared to enroll in more advanced machining courses in high school. Students will create real world projects using CNC Plasma Cutters, Water Jet Cutters Routers, Injection Molders and Vacuum Formers.

MthB

CNC MACHINING II

GRADES: 11-12

LENGTH: 1 YEAR

CREDITS: 1.0 CTE/ 1.0 MTH B

EST. FEES: \$110

Prerequisites: Manufacturing Fundamentals and CNC Machining

Concurrent Enrollment: N/A

Certifications: National Institute of Metalworking Skills (NIMS) upon completion of pathway

Course Description: This course covers CAD/CAM systems, geometric modeling, process planning, tool path generation. Course content includes programming and production of complex parts. Projects focus on solid modeling for design and manufacturing applications as well as the use of commercial CAD/CAM software for automating the production cycle. Special content addresses CNC mill and lathe setups and operations not covered in the basic CNC Machining. NIMS certification preparation and testing are included in course content.

MthB



BUSINESS SERVICES



Project Management for Entrepreneurs I

10th-12th Grade

Discover the basics of project management while getting a start-up business off the ground.

Project Management for Entrepreneurs II

10th-12th Grade

Discover how social media and other marketing strategies can help grow your business.

Project Management for Entrepreneurs III

11th-12th Grade

Continue enhancing your business while using customer relationship management tactics.

CTE Capstone

11th-12th Grade

Be the project manager for a student team tackling real world problems and issues.

PROJECT MANAGEMENT FOR ENTREPRENEURS I

GRADES: 10-12

LENGTH: 1 SEMESTER

CREDITS: .5 CTE/ .5 ENG A

EST. FEES: \$80

Prerequisites: N/A

Concurrent Enrollment: Arapahoe Community College (ENP 105, MAN 241)

Certifications: Certified Associate Project Management (CAPM) upon completion of PM4EI and PM4EII (may be earned in grade 12 only)

Course Description: By definition, project management is a temporary endeavor undertaken to create a unique product, service, or result. Project Management for Entrepreneurs I explores the fundamentals of project management with an entrepreneurial slant. Business and marketing concepts, including organizational communication, human resources management, entrepreneurship, accounting, finance, and leadership are explored. The course investigates the concepts and applicability of project management within organizations by examining the unique nature of projects, the need for integrated decision-making, and the stages of the project life cycle. The creation of a unique product, service, or idea that solves a problem in your community is required. This process will include collaboration on a sales pitch and business plan adopting the Business Canvas Model.

Suggested Prerequisites include Introductory Business and/or Marketing Course.



EngA

PROJECT MANAGEMENT FOR ENTREPRENEURS II

GRADES: 10-12

LENGTH: 1 SEMESTER

CREDITS: .5 CTE/ .5 ENG B

EST. FEES: \$80

Prerequisites: Successful Completion of Project Management for Entrepreneurs I

Concurrent Enrollment: Arapahoe Community College (MAR 106, ENP 205)

Certifications: Certified Associate Project Management (CAPM) upon completion of PM4EI and PM4EII (may be earned in grade 12 only)

Course Description: Project management is a rapidly growing profession. Between now and the year 2020, 1.57 million new project management jobs are projected to be created each year. Project Management for Entrepreneurs II presents a series of marketing challenges to teams of student project managers with the winners announced at the end of the semester. This course continues to prepare students in understanding how project management skills can assist in promoting an entrepreneurial venture. Students gain insights essential for using digital media to market their ideas, using innovative and financially responsible marketing strategies that are both traditional and non-traditional in nature.



EngB



BUSINESS SERVICES



PROJECT MANAGEMENT FOR ENTREPRENEURS III

GRADES: 11-12

LENGTH: 1 SEMESTER

CREDITS: .5 CTE/ .5 ENG B

EST. FEES: \$80

Prerequisites: Project Management for Entrepreneurs I & II

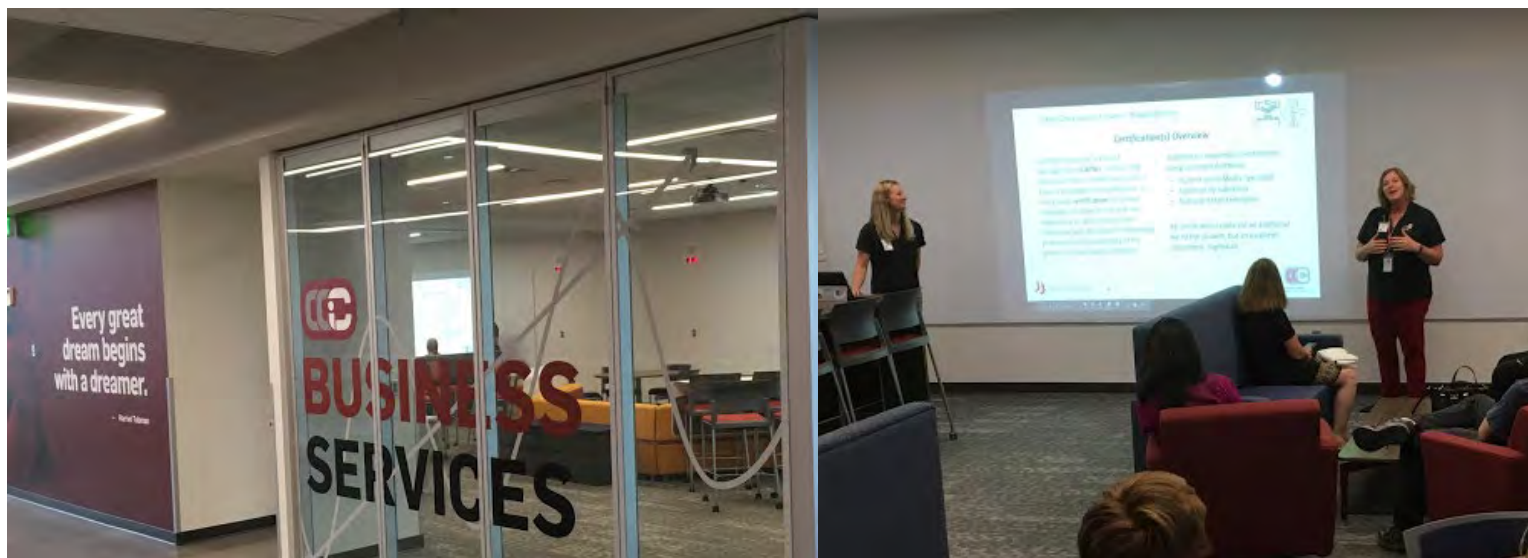
Concurrent Enrollment: Arapahoe Community College (MAR 160, MAN 243)

Certifications: Certified Associate Project Management (CAPM) upon completion of PM4EI, PM4EII, & PM4EIII (may be earned in grade 12 only)

Course Description: This course enables students to understand how project management skills are necessary to build customer relations and service practice. Enrolled students learn how to problem solve and understand the importance of communicating with customers. Specific emphasis is given to managing customer expectations by building positive customer rapport and creating outcomes related to industry. In addition, this course examines Customer Relationship Management (CRM) and its application in marketing, sales, and service industry.



EngC



CTE CAPSTONE

GRADES: 11-12

LENGTH: 1 SEMESTER

CREDITS: .5 CTE/ .5 ENG B

EST. FEES: \$100

Prerequisites: Any CCIC student completing a pathway at CCIC is eligible to take the CTE Capstone course.

A teacher recommendation may be required.

Concurrent Enrollment: Arapahoe Community College (MAN 224, MAN 128)

Certifications: Certified Associate Project Management (CAPM) upon completion of PM4EI and PM4EII (may be earned in grade 12 only)

Course Description: While working in teams, students who have completed any CCIC pathway will solve real world problems faced by our business partners who will act as project sponsors. The teams will then initiate, plan, execute, monitor and control, and close the project by presenting the sponsor with the deliverable and/or solution. All team members must be willing to improve their skills in collaboration, leadership, time management, teamwork, commitment, and perseverance.



EngC



FUTURE EDUCATOR



Teaching

Introduction to Future Educator
EDHD 1030 & CLDE 1000

10th-12th grade

Child Development and Digital Teaching & Learning
HDRF 1005 & INTE 2000

10th-12th grade

Early Childhood Education & Guidance
ECED 1000 & ECED 1202

11th-12th grade

STEM Methods & Children's Literature
STME 1000 & LCRT 2000

11th-12th grade

OVERVIEW

The Future Educator Pathway is a CTE Pathway that includes innovation, dual enrollment course work, and culminates in an established apprenticeship within CCSD. As an apprentice, students earn valuable experience and work hours in the Education pathway, working as a paraprofessional in a K-8 placement within Cherry Creek School District. Students can earn college credits, wages, paraprofessional certification, classroom hours and access to a professional network. Courses are available to all students, not just those interested in an Apprenticeship. University of Colorado Denver classes will require additional fees depending on number of credits taken per semester.

For more information about this innovative program, please visit www.cherrycreekschools.org/cte.

INTRODUCTION TO FUTURE EDUCATOR: EDHD 1030 & CLDE 1000

GRADES: 10-12

LENGTH: 1 SEMESTER

CREDITS: 1.0 CTE

EST FEES: N/A

Prerequisites: N/A

Dual Enrollment: University of Colorado Denver (EDHD 1030, CLDE 1000); additional fees required depending on number of credits taken per semester.

Certifications: N/A

Course Descriptions: As the introductory course in the Future Educator pathway, this course combines EDHD 1030 (Early Field Experience & Seminar) and CLDE 1000 (Language, Identity & Power). In EDHD 1030, students will learn about working within the community to support children's learning. The experiences of Seminar, paired with work at a local school or community-based context, will help students develop theoretical grounding as a community based educator. In CLDE 1000, the course explores the relationship between language, identity, and power in various international contexts. The course considers how legacies of inequality for particular communities are reflected in societal attitudes about languages and language users and subsequent language planning.





FUTURE EDUCATOR



CHILD DEVELOPMENT & DIGITAL TEACHING AND LEARNING: HDRF 1005 & INTE 2000

GRADES: 10-12

LENGTH: 1 SEMESTER

CREDITS: 1.0 CTE

EST FEES: N/A

Prerequisites: N/A



Dual Enrollment: University of Colorado Denver (CLDE 1000); additional fees required depending on number of credits taken per semester.

Certifications: N/A

Course Description: This course explores the relationship between language, identity, and power in various international contexts. The course considers how legacies of inequality for particular communities are reflected in societal attitudes about languages and language users and subsequent language planning.

EARLY CHILDHOOD EDUCATION AND CHILD GUIDANCE: ECED 1000 & ECED 1202

GRADES: 11-12

LENGTH: 1 SEMESTER

CREDITS: 1.0 CTE

EST FEES: N/A

Prerequisites: Recommended completion of Introduction to Future Educator and teacher recommendation.



Dual Enrollment: University of Colorado Denver (ECED 1000, ECED 1202); additional fees required depending on number of credits taken per semester.

Certifications: N/A

Course Descriptions: This course combines ECED 1000 (Introduction to Early Childhood Education) and ECED 1202 (Child Guidance). In ECED 1000, students will receive an overview of early childhood education contexts and the historical roots of services to young children and families. Trends, resources, foundational standards of practice, professionalism and code of ethical conduct are examined. In ECED 1202, the course explores and applies classroom strategies to promote social competence, build classroom community and facilitate emotional regulation. An emphasis is on understanding development within group contexts, observing children's behavior and engaging with families to make decisions about learning.

STEM METHODS AND CHILDREN'S LITERATURE: STME 1000 & LCRT 2000

GRADES: 11-12

LENGTH: 1 SEMESTER

CREDITS: 1.0 CTE

EST FEES: N/A

Prerequisites: Recommended completion of Introduction to Future Educator and teacher recommendation.



Dual Enrollment: University of Colorado Denver (STME 1000, LCRT 2000); additional fees required depending on number of credits taken per semester.

Certifications: N/A

Course Descriptions: This course combines STME 1000 (STEM Methods) and LCRT 2000 (Rebels, Villains & Superheroes: How Children's Literature Shapes Our Identities). In STME 1000, the course provides an overview of STEM practices and philosophies in PK-12 education. STEM trends, foundations of practice, and resources are examined. In LCRT 2000, the course explores both classic and contemporary children's and adolescent literature and media in traditional and digital texts, specifically focusing on developing literary understandings, exploring perspectives and personal responses to literature, and inquiring into trends and issues.



HEALTH & WELLNESS



Introduction to Health Care

10th-12th Grade

Exploration of healthcare careers and content related to basic anatomy & physiology.

Suggested prerequisite for courses in the Health & Wellness pathway

Certified Nurse Aide

11th-12th Grade

Students prepare to perform patient care in a nurse aide role.

Behavioral Health Technician

11th-12th Grade

Students explore and apply basic principles of behavioral and mental health.

Introduction to PT & OT

11th-12th Grade

Course prepares students for patient care as a physical and occupational therapy aide.

Pharmacy Technician

12th Grade

Students learn the role and function of pharmacy technicians.



INTRODUCTION TO HEALTH CARE

GRADES: 10-12

LENGTH: 1 SEMESTER

CREDITS: .5 CTE/ .5 LIFE SCI

EST. FEES: \$34

Prerequisites: N/A

Concurrent Enrollment: Arapahoe Community College (HPR 123, HPR 124) – *Some sections*

Certifications: Basic Life Support (BLS) through American Heart Association or American Red Cross CPR/FAS/AED

Course Description: Introduces health sciences with an overview of the five pathways that make up the health science cluster. The course addresses the foundation standards including health maintenance, employability skills, teamwork, healthcare systems, communications, and legal issues in healthcare. This course aligns with the Colorado Community College course Intro to Health Care (HPR 123) and Health Care Practices (HPR 124). Concurrent enrollment opportunities *may* be offered in some sections of this course.



CERTIFIED NURSE AIDE (CNA)

GRADES: 11-12

LENGTH: 1 SEMESTER

CREDITS: .5 CTE/ .5 LIFE SCI

EST. FEES: \$200

Prerequisites: N/A

Concurrent Enrollment: N/A

Certifications: Certified Nurse Aide

Course Description: Students learn effective skills to interact competently with clients, including sensitivity to clients' emotional, social and mental health needs, as well as appropriate documentation of clients' health assessment, physical condition, and overall well-being. Skills must meet requirements of the Colorado State Board of Nursing. Students will be required to pass a background check and drug screening.





HEALTH & WELLNESS



BEHAVIOR HEALTH TECHNICIAN

GRADES: 11-12

LENGTH: 1 YEAR

LENGTH: 1.0 CTE / 1.0 ENGLISH A

EST. FEES: \$78

Prerequisites: N/A

Concurrent Enrollment: Pueblo Community College (PTE 110, PTE 120)



Certifications: Behavioral Health Technician certificate of completion upon completion of course

Course Description: This course explores the basic principles of behavioral health in a behavioral health care setting. This course develops interpersonal and technical skills while working with clients in psychiatric care settings. Students obtain skills used daily by Behavioral Health Technicians (BHT's) such as therapeutic communication and relationship building and conducting psychoeducational therapy groups. Opportunities in the field may be available to students second semester. Additional fees will be required for off-campus experiences.

Suggested prerequisite: Introduction to Health Care (formerly Introduction to Health & Wellness)

INTRODUCTION TO PHYSICAL & OCCUPATIONAL THERAPY

GRADES: 11-12

LENGTH: 1 SEMESTER

CREDITS: .5 CTE/ .5 LIFE SCI

EST. FEES: \$70

Prerequisites: N/A

Concurrent Enrollment: Arapahoe Community College (PTA 115)



Certifications: N/A

Course Description: This course combines Introduction to Physical Therapy and Occupational Therapy. In PT, we explore the history of the profession including definition, development and areas of practice. The role of the APTA, the physical therapist assistant and the relationship between the physical therapist, PTA and other health care professionals are investigated. Includes current issues and trends including professionalism, ethics, quality assurance, communications and reimbursement issues such as Medicare, Medicaid, Worker's Compensation and commercial insurance. In OT, we explore career options in Occupational Therapy through discussion, observation and participation. Identifies the need for areas of occupation and the differences between health, illness, and wellness. Describes the history and philosophy of Occupational Therapy, and the roles, responsibilities and relationships between other health care professionals. Discusses ethical and legal implications of health care, and explore basic sociological issues.

Suggested prerequisite: Introduction to Health Care (formerly Introduction to Health & Wellness)

PHARMACY TECHNICIAN

GRADES: 12

LENGTH: 1 YEAR

CREDITS: 1.0 CTE/ 1.0 LIFE SCI

EST. FEES: \$154

Prerequisites: N/A

Concurrent Enrollment: N/A

Certifications: Pharmacy Technician

Course Description: This course series is designed to help give students the knowledge and skills needed to work with a licensed pharmacist in a variety of clinical and retail settings. Students explore medical and pharmaceutical terminology, pharmaceutical calculations, pharmaceutical techniques, sterile compounding, pharmacy recordkeeping, and pharmacy law and ethics. Students also examine essential medical topics such as body systems, common diseases and conditions, microbiology, and medication errors. In the Pharmacy Technician 1 course students gain a foundational understanding of pharmacology and pharmaceutical care. They focus on laws and ethics, drug actions and interactions with the body, dosing and administration and medication errors.

Suggested prerequisite: Introduction to Health Care (formerly Introduction to Health & Wellness)





HOSPITALITY & TOURISM



LODGING & RESORT MANAGEMENT PATHWAY

Lodging & Resort Management

11th-12th Grade

Length: 1 year

Careers in hospitality, guest experience cycle, resort operations, sales, marketing, banquet /event management, team building and communication

Hospitality Youth Apprenticeship

12th Grade

Length: 1 year

Focus on event planning, sales, social media marketing, developing leadership skills, managing banquets/events, and possible internship opportunities with industry partners. Collaboration with ProStart Youth Apprenticeship class.



LODGING & RESORT MANAGEMENT

GRADES: 11-12

LENGTH: 1 YEAR

CREDITS: 1.0 CTE /1.0 ENG B

EST. FEES: \$165

Prerequisites: N/A

Dual Enrollment: Metro State University of Denver (HTL 1010 & HLDR 1000), \$50 additional fee per credit, 6 credits



EngB

Certifications: GOLD Certified Guest Service Professional, ServSafe Food Handler, Workforce Readiness Certificate, and CHTMP (Certified Hospitality & Tourism Management Professional). Includes a 100 hour internship.

Course Topics: This two-year industry-developed curriculum by the American Hotel and Lodging Educational Institute covers careers in hospitality and restaurant operations, customer service, sales, marketing, employability and soft skills, communication, guest experience cycle and food and beverage services. Successful participants in the program will have the opportunity to receive college credits, earn industry certifications and credentials, opportunity to participate in a mentored internship, and apply for industry scholarships. FCCLA is also an integral part of this course. In addition, CCIC students will have the opportunity to earn internship hours through our on-site cafe run through our ProStart program.

HOSPITALITY YOUTH APPRENTICESHIP

GRADES: 12

LENGTH: 1 YEAR

CREDITS: 1.0 CTE /1.0 ENG C

EST. FEES: \$110

Prerequisites: Lodging & Resort Management

Dual Enrollment: N/A

Certifications: AHLEI Hospitality Manager: Leadership Training

Course Topics: This senior-level experience allows students to expand upon and apply the knowledge, skills, and abilities gained from the Lodging & Resort Management program. This class has a focus on developing leadership skills, event planning, social media marketing, sales, managing banquets/events, and possible internship opportunities with our pathway industry partners. Heavy collaboration with ProStart Youth Apprenticeship is included to organize our in-house events and student-run cafe. FCCLA is also an integral part of this course.

EngC



HOSPITALITY & TOURISM



PROSTART PATHWAY

ProStart I/ProStart II

10th-12th Grade

Length: 1 year

Food safety and sanitation, commercial equipment, and cooking methods for soups, sauces, stocks and more. Menu design, business operations, and cooking methods for meats, pasta, desserts, and more.

**ProStart prerequisite: If you are a Grandview or Smoky Hill student, one year of ProStart at your home school is required*

ProStart Youth Apprenticeship

11th-12th Grade

Length: 1 year

CCICafé business operations, food production principles, marketing, team building, and communication.

PROSTART I / PROSTART II

GRADES: 10-12

LENGTH: 1 YEAR

CREDITS: 2.0 CTE

EST. FEES: \$175

Prerequisites: N/A

*GHS/SHHS students only - one year of ProStart from home school required

Dual Enrollment: ProStart I - Metro State University of Denver (RST 1550); ProStart II - Metro State University of Denver (RST 2550), \$50 additional fee per Metro State University credit, 6 credits

Certifications: ServSafe Food Handler, Workforce Readiness Certificate, Gold Certified Guest Service Professional, ProStart National Certificate of Achievement (additional certifications available upon request)

Course Topics: This course from the National Restaurant Association Educational Foundation and Colorado Restaurant Foundation introduces students to a competency-based foodservice & hospitality management curriculum offered to students in grades 10-12. It is a study of culinary arts, restaurant and lodging management, employability skills, and business entrepreneurship coupled with paid mentored work internships in a broad spectrum of industry restaurant, foodservice, and lodging operations. Students who wish to obtain the national ProStart certification must complete a 400 - hour guided internship and pass the exams for both ProStart I & II. Successful participants in the program will have the opportunity to receive college credits, earn industry certifications and credentials, compete in the ProStart Invitational Competitions, and apply for industry scholarships. FCCLA is also an integral part of this course.

Suggested Prerequisites: Culinary Essentials I & II (formerly Foods & Nutrition or Gourmet Foods)



PROSTART YOUTH APPRENTICESHIP

GRADES: 11-12

LENGTH: 1 YEAR

CREDITS: 1.0 CTE/1.0 ENG C

EST. FEES: \$175

Prerequisites: ProStart I and/or ProStart II

Dual Enrollment: N/A

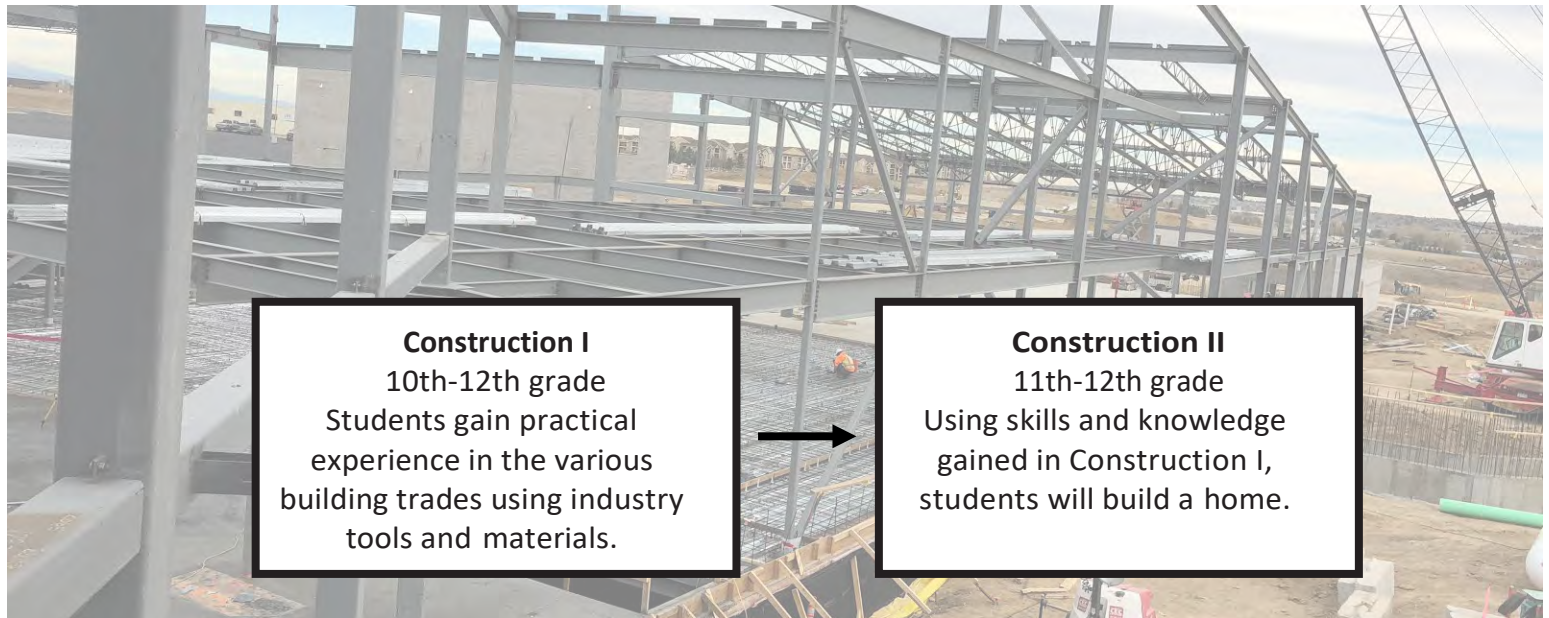
Certifications: ServSafe Manager, Workforce Readiness Certificate, Gold Certified Guest Service Professional, ProStart National Certificate of Achievement, ServSuccess Certified Restaurant Professional

Course Topics: This program combines work-based, on-the-job training with relevant technical education in the classroom. Students who participate in this program have the opportunity to earn industry credentials and the possibility of college credit. They also start on a career path that continues after high school graduation – whether that is a continuation of their apprenticeship along with college, college only, apprenticeship only, or other full-time employment. Students also leave the program with employability skills – like leadership, accountability, teamwork and responsibility – that they can take with them to positions in all industries. CCIC students will run the on-site cafe to complete their youth apprenticeship.

EngC



INFRASTRUCTURE ENGINEERING



Construction I

10th-12th grade

Students gain practical experience in the various building trades using industry tools and materials.



Construction II

11th-12th grade

Using skills and knowledge gained in Construction I, students will build a home.

CONSTRUCTION I

GRADES: 10-12

LENGTH: 1 YEAR

CREDITS: 1.0 CTE/ 1.0 MTH A

EST FEES: \$90

Prerequisites: Algebra I

Concurrent Enrollment: N/A

Certifications: OSHA-10 Construction, Home Builders Institute Pre-Apprenticeship, National Center for Construction Education and Research

Course Topics: Safety, construction math, hand and power tools, blueprints/drafting, electrical wiring, masonry, plumbing, carpentry, HVAC, drywall, foundations, footings, floors, roofing, stairs, windows, doors, and employability.

MthA

CONSTRUCTION II

GRADES: 11-12

LENGTH: 1 YEAR

CREDITS: 1.0 CTE/ 1.0 MTH A

EST FEES: \$90

Prerequisites: Algebra I, Construction I

Concurrent Enrollment: N/A

Certifications: Home Builders Institute Pre-Apprenticeship: Carpentry, Electrical, Plumbing, and National Center for Construction Education and Research: Carpentry, Electrical, Plumbing

Course Description: Students will have more complicated practical experience with Carpentry, Electrical and Plumbing. Working in conjunction with the Associated General Contractors of Denver, students focus on various specifics of modular home building. The home's plumbing will include wastewater, domestic supply and fixture installation while the electrical aspects will focus on all facets of residential wiring, including rough wiring, installation of electrical fixtures and finish wiring. Carpentry for this year will include a more comprehensive understanding of framing, drywall, exterior siding, roofing, insulation, windows, doors, trim and cabinet installation.

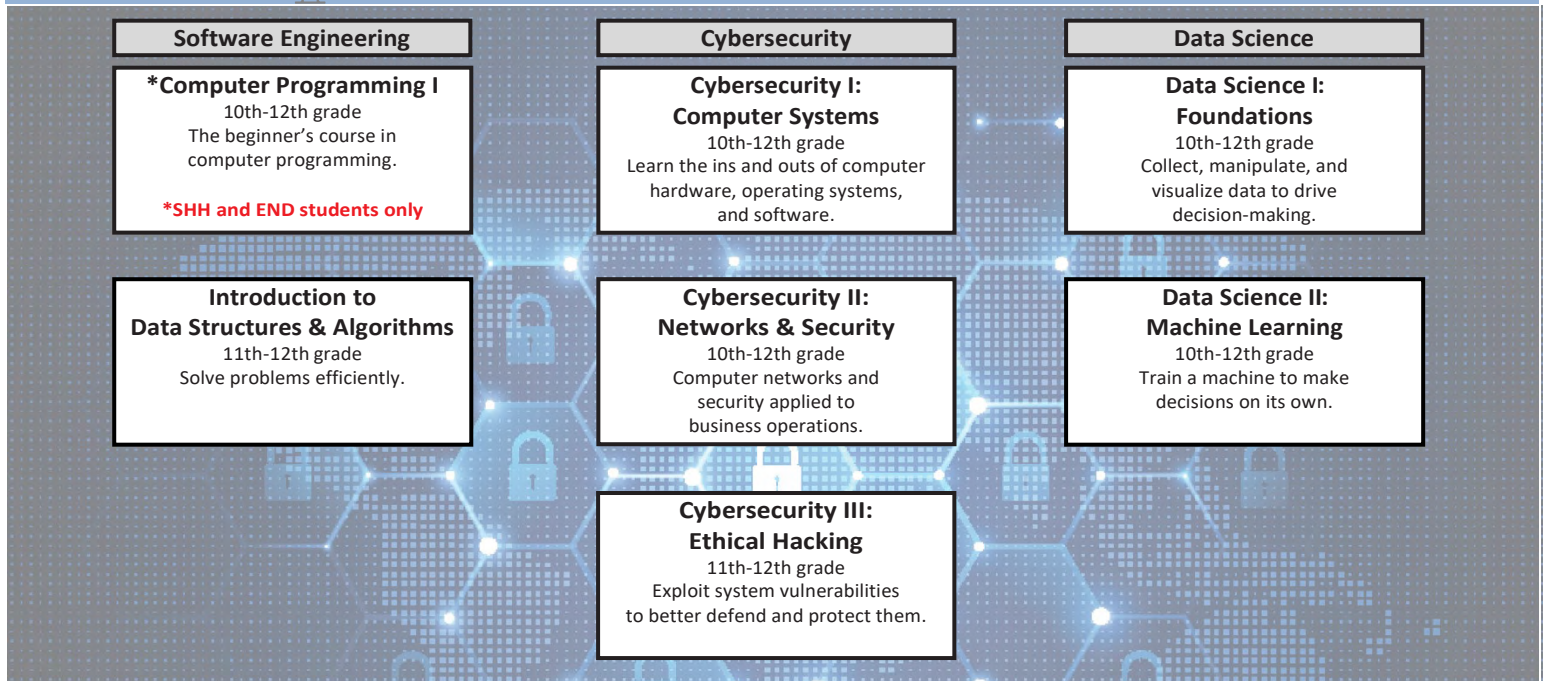
MthA



IT/STEAM



IT PATHWAY



COMPUTER PROGRAMMING I

GRADES: 10-12	LENGTH: 1 SEMESTER	CREDITS: 1.0 CTE	EST. FEES: \$30
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Prerequisites: Algebra I (B or better)

Concurrent Enrollment: N/A

Certifications: N/A

Course Topics: This course intended to teach students the basics of computer programming. The course places emphasis on practicing standard programming techniques and learning the logic tools and methods typically used by programmers to create simple computer applications. Upon completion of this course, proficient students will be able to solve problems by planning multi-step procedures; write, analyze, review, and revise programs, converting detailed information from workflow charts and diagrams into coded instructions in a computer language; and will be able to troubleshoot/debug programs and software applications to correct malfunctions and ensure their proper execution.

**CCHS, CTHS, EHS, GHS, OHS students interested in IT/STEAM pathway must take an introductory programming course at home high school.*

INTRODUCTION TO DATA STRUCTURES & ALGORITHMS

GRADES: 11-12	LENGTH: 1 SEMESTER	CREDITS: .5 CTE/.5 MTH C	EST. FEES: \$30
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Prerequisites: AP Computer Science A (or equivalent)

Concurrent Enrollment: N/A

Certifications: N/A

Course Topics: This course will cover the different ways data can be stored to more efficiently solve computing problems. Students will be exposed to a variety of techniques for developing and analyzing algorithms. Topics in this course may include, but are not limited to arrays, lists, maps, sets, graphs, trees, recursion, asymptotic notation, and proof techniques.

MthC



IT PATHWAY

CYBERSECURITY I: COMPUTER SYSTEMS

GRADES: 10-12	LENGTH: 1 SEMESTER	CREDITS: 1.0 CTE	EST. FEES: \$30
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Prerequisites: One of the following: Computer Programming I (*formerly Introduction to Programming or Introduction to Computer Science*), AP Computer Science Principles, or AP Computer Science A

Concurrent Enrollment: N/A

Certifications: CompTIA A+, TestOut PC Pro

Course Topics: This course will give students hands-on experience with computer hardware, operating systems, and software. Students will also learn the essentials of computer networks and how the internet works. Along the way, students will be exposed to a variety of security implications that impact our computer systems and society today. At the end of this course, students will be prepared to take the TestOut PC Pro and CompTIA A+ exam, credentials that demonstrate their ability to be able to diagnose and troubleshoot a variety of IT-related issues. Cybersecurity I is a course intended to teach students the basic concepts of cybersecurity. The course places an emphasis on security integration, application of cybersecurity practices and devices, ethics, and best practices management. The fundamental skills in this course cover both in house and external threats to network security and design, how to enforce network level security policies, and how to safeguard an organization's information. Upon completion, proficient students will be able to demonstrate an understanding of cybersecurity concepts, identify fundamental principles of networking systems, understand network infrastructure and network security, and be able to demonstrate how to implement various aspects of security within a networking system.

CYBERSECURITY II: NETWORKS & SECURITY

GRADES: 10-12	LENGTH: 1 SEMESTER	CREDITS: .5 CTE/.5 MTH D	EST. FEES: \$30
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Prerequisites: Cybersecurity I: Computer Systems

Concurrent Enrollment: N/A

Certifications: CompTIA Network+, TestOut Network Pro, CompTIA Security+, TestOut Security Pro

Course Topics: In this course, students will dive deeper into networking and security concepts. Students will learn to design, implement, and troubleshoot issues for both wired and wireless networks. Students will also learn more about cryptography as well as security in business operations including risk management and disaster recovery. Students will be prepared to take the industry-recognized TestOut Network Pro, CompTIA Network+, and CompTIA Security+ exams. Cybersecurity II challenges students to develop advanced skills in concepts and terminology of cybersecurity. This course builds on previous concepts introduced in Cybersecurity I while expanding the content to include malware threats, cryptography, wireless technologies and organizational security. Upon completion of this course, proficient students will be able to demonstrate an understanding of cybersecurity ethical decisions, malware threats, how to detect vulnerabilities, principles of cryptology, security techniques, contingency plan techniques, security analysis, risk management techniques, and advanced methods of cybersecurity.

MthD



IT PATHWAY

CYBERSECURITY III: ETHICAL HACKING

GRADES: 11-12

LENGTH: 1 SEMESTER

CREDITS: 1.0 CTE

EST. FEES: \$30

Prerequisites: Cybersecurity I: Computer Systems and Cybersecurity II: Networks & Security

Concurrent Enrollment: N/A

Certifications: N/A

Course Topics: In this course, students will learn to evaluate the security posture of target systems by exploiting their weaknesses and vulnerabilities in an ethical, lawful, and legitimate manner. Students will utilize their findings to make recommendations for strengthening the security of these target systems. This course will be based on the industry-recognized Certified Ethical Hacker certification and will prepare students for entry-level jobs in penetration testing and cybersecurity.

DATA SCIENCE I: FOUNDATIONS

GRADES: 10-12

LENGTH: 1 SEMESTER

CREDITS: .5 CTE/.5 MTH C

EST. FEES: \$30

Prerequisites: One of the following: Computer Programming I (*formerly Introduction to Programming or Introduction to Computer Science*), AP Computer Science Principles, or AP Computer Science A

MthC

Concurrent Enrollment: N/A

Certifications: N/A

Course Topics: Students will learn the basic process of data science: collecting, manipulating, and visualizing data to drive decision making. Students will be exposed to each stage of the process from determining what constitutes good data to collect, techniques for cleaning and organizing it, tools that can be used for visualizing the data, the necessary statistical underpinnings for data analysis, and developing intellectual capital and communication skills for contextualizing and presenting key findings. Students will be exposed to a variety of tools useful in data science, which may include, but is not limited to Python and R programming languages, SQL, and machine learning APIs.

DATA SCIENCE II: MACHINE LEARNING

GRADES: 10-12

LENGTH: 1 SEMESTER

CREDITS: .5 CTE/.5 MTH C

EST. FEES: \$30

Prerequisites: Data Science I: Foundations

MthC

Concurrent Enrollment: N/A

Certifications: N/A

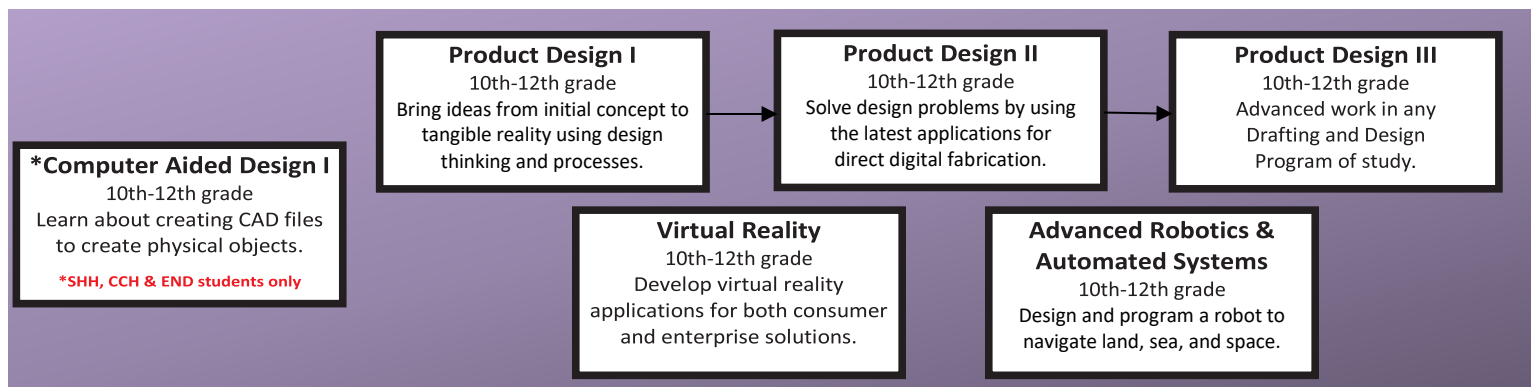
Course Topics: This course provides a broad introduction to machine learning, data mining, and statistical pattern recognition. Topics include: (i) Supervised learning (parametric/non-parametric algorithms, support vector machines, kernels, neural networks). (ii) Unsupervised learning (clustering, dimensionality reduction, recommender systems, deep learning). (iii) Best practices in machine learning (bias/variance theory; innovation process in machine learning and AI). The course will also draw from numerous case studies and applications, so that you'll also learn how to apply learning algorithms to building smart robots (perception, control), text understanding (web search, anti-spam), computer vision, medical informatics, audio, database mining, and other areas.



IT/STEAM



STEAM PATHWAY



COMPUTER AIDED DESIGN I

GRADES: 10-12

LENGTH: 1 SEMESTER

CREDITS: .5 CTE/.5 MTH B

EST. FEES: \$100

Prerequisites: N/A

Dual Enrollment: Metro State University of Denver (IND 1450), \$50 additional fee per MSU credit, 3 credits

Certifications: SOLIDWORKS Certified Associate - CSWA Mechanical Design (if not taken at home high school), SOLIDWORKS Certified Associate - CSWA-AM Additive Manufacturing (if not taken at home high school)

Course Topics: This course is an entry level design class developed to teach students how to use various drawing instruments to read and create technical drawings and 3D parts. This course is designed for students interested in exploring careers related to technical careers such as engineering and product design. Students will demonstrate their new skills through hands on projects and display how various software is used in industry. The course will culminate with students taking the Certified SolidWorks Associate exam, an industry level certification exam used to demonstrate a student's level of expertise using SolidWorks. Focuses on basic computer aided drafting skills using the SolidWorks software. Includes file management, Cartesian coordinate system & dynamic input, drawing templates, drawing aids, linetype and lineweights, layer usage, drawing & editing geometric objects, polylines & splines, array, text applications, creating tables, basic dimensioning and help access.



PRODUCT DESIGN I

GRADES: 10-12

LENGTH: 1 SEMESTER

CREDITS: .5 CTE/.5 PHY SCI

EST. FEES: \$100

Prerequisites: N/A

Dual Enrollment: Metro State University of Denver (IND 1000), \$50 additional fee per MSU credit, 1 credit

Certifications: (if not taken at home high school) - Society of Manufacturing Engineers ADDITIVE MANUFACTURING FUNDAMENTALS, SOLIDWORKS Certified Associate - CSWA Mechanical Design

Course Topics: Students that are interested in careers involving design, engineering and innovation. Students will utilize design thinking and the design process to research, conceptualize, design, prototype, and evaluate physical products. Students will develop their digital fabrication skills utilizing production machines. Students will design and create both as an individual and in collaborative groups, including working on/with projects directly from industry. This course is the professional practice of creating products that enhance the function, usability, value, and appearance of products with the goal of benefiting the user, manufacturer, community, and the environment. Also known as product design, industrial design education prepares students to design systems and tangible artifacts including, consumer and recreational products, medical and computer equipment, and transportation and environments. Both generalist and specialist, industrial designers tend to be part artist, part entrepreneur and engineer. This course is designed for students interested in careers in Industrial Design, Packaging Design, or Design Arts industry sector. Students will be introduced to industry standard tools, skills, and materials that they can manipulate as the primary means of manufacturing and package design. Students will explore basic applications of various tools to create projects in both digital and 3D format.





IT/STEAM



STEAM PATHWAY

PRODUCT DESIGN II

GRADES: 10-12

LENGTH: 1 SEMESTER

CREDITS: .5 CTE/.5 PHY SCI

EST. FEES: \$100

Prerequisites: Computer Aided Design or similar Design course

Dual Enrollment: Metro State University of Denver (IND 3660), \$50 additional fee per MSU credit, 3 credits



Certifications: (if not taken at home high school) - SOLIDWORKS Certified Associate - CSWA-AM Additive Manufacturing, SOLIDWORKS Certified Expert - CSWE Mechanical Design, SOLIDWORKS Certified Professional - CSWP Mechanical Design

Course Topics: Students that are interested in careers involving design, engineering, and innovation. Students will explore and use the latest applications of direct digital fabrication. Emphasis will be placed on practical experience in utilizing departmental equipment to produce digital 3D files and output them to appropriate direct digital fabrication equipment. Students will solve design problems by applying knowledge of material properties, ergonomics, form vs. function, additive manufacturing (3D printing), principles of design, and elements of art. Students will design and create both as an individual and in collaborative groups, including working on/with projects directly from industry. This course prepares students to design systems and tangible artifacts and deepen understanding of manufacturing and marketing processes. Students will advance development of industry-standard tools, skills, and material usage for product manufacturing and design in Industrial Design, Packaging Design, or Design Arts industry sector.

PRODUCT DESIGN III

GRADES: 10-12

LENGTH: 1 SEMESTER

CREDITS: .5 CTE/.5 PHY SCI

EST. FEES: \$100

Prerequisites: Product Design II

Concurrent Enrollment: N/A

Certifications: (if not taken at home high school) - SOLIDWORKS Certified Associate - CSWA-AM Additive), SOLIDWORKS Certified Expert - CSWE Mechanical Design, SOLIDWORKS Certified Professional - CSWP Mechanical Design

Course Topics: This course allows for advanced work in any Drafting and Design Program of Study. This advanced work can be individualized to the specific program of study to allow for specialized study for the student. It may include project based learning or preparation for the end of program industry certification. Specific content and course design will be determined by the instructor in collaboration with the individual student.



ADVANCED ROBOTICS & AUTOMATED SYSTEMS

GRADES: 10-12

LENGTH: 1 SEMESTER

CREDITS: .5 CTE/.5 MTH B

EST. FEES: \$100

Prerequisites: Introductory Robotics course or equivalent

Concurrent Enrollment: N/A

Certifications: N/A

Course Topics: Introduces industrial robotics as well as a survey of the technologies and equipment used in manufacturing automation and process control. Includes axis configurations, work envelopes, programming, troubleshooting, and maintenance. Incorporates a survey of automation topics including history, computer and hardwired controls, sensors and transducers, motors and actuators, fluid power, and PLC's.



VIRTUAL REALITY

GRADES: 10-12

LENGTH: 1 SEMESTER

CREDITS: .5 CTE/.5 MTH B

EST. FEES: \$100

Prerequisites: N/A

Concurrent Enrollment: N/A

Certifications: Unity Certified Associate, Unity Certified User: 3D Artist, Unity Certified User: Programmer

Course Topics: Students learn to develop VR applications in Unity, design Unity assets, create VR environments and animate with C# scripts. Students explore VR hardware and software. Students also identify industries where VR is a disruptive technology.





TRANSPORTATION



AUTOMOTIVE TECHNOLOGY

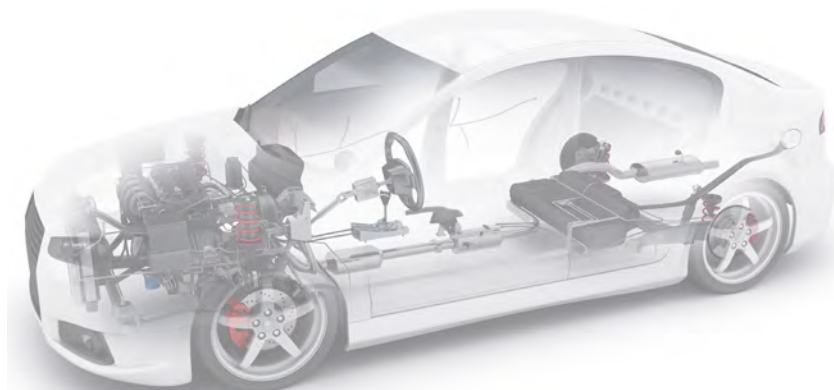
Maintenance and Light Repair (MLR) I
10th-12th Grade
Introduction to all things automotive.



Maintenance and Light Repair (MLR) II
11th-12th Grade
Advanced concepts for all things automotive.



Auto Service Technology MLR III
High Performance
12th Grade
Specialized projects and apprenticeship preparation.



MAINTENANCE AND LIGHT REPAIR (MLR) I

GRADES: 10-12

LENGTH: 1 YEAR

CREDITS: 1.0 CTE/ 1.0 PHY SCI

EST FEES: \$95

Prerequisites: N/A

Concurrent Enrollment: Arapahoe Community College (ASE 101, 103, 122, 250, 264)*



Certifications: Snap-on Certifications (Multimeter, Torque, Precision Measurement, Scanner and Diagnostics), ASE Student Automobile Certifications (Brake Systems, Suspension & Steering Systems, Electrical/Electronic Systems, and Engine Performance)

Course Topics: Automotive Maintenance and Light Repair (MLR) explores automotive industry standards and terminology, career opportunities and classifications, shop operations and safety, tool identification and usage, diagnostic equipment identification and usage, automotive systems, tires and wheels, hydraulic braking systems, cooling systems, lubrication systems, and preventative maintenance. Also included is basic operation of automotive braking systems, operation, diagnosis and basic repair of disc, drum, and basic hydraulic braking systems. The basics of electrical systems, electronic systems, batteries, starting systems, charging systems, lighting systems, electrical instruments and accessories, and ignition systems will also be studied. This course focuses on the diagnosis and service of suspensions and steering systems and their components. Students who successfully complete all MLR courses will have the knowledge needed to pass the ASE certification exam for MLR. Students who pass the exam and meet the work-based requirement will be eligible and encouraged to enter the workforce as an ASE-Certified MLR Technician.

* Concurrent Enrollment credits can be taken in either MLR I or MLR II, but cannot be repeated



TRANSPORTATION



AUTOMOTIVE TECHNOLOGY

MAINTENANCE AND LIGHT REPAIR (MLR) II

GRADES: 11-12	LENGTH: 1 YEAR	CREDITS: 1.0 CTE/ 1.0 PHY SCI	EST. FEES: \$95
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Prerequisites: MLR I



Concurrent Enrollment: Arapahoe Community College (ASE 101, 103, 122, 250, 264)*

Certifications: Snap-on Certifications (Wheel Service & Alignment, Advanced Scanner Diagnostics, Pro-Cut on-car Rotor Machining, Battery Starting and Charging), ASE Student Automobile Certifications (Brake Systems, Suspension & Steering Systems, Electrical/Electronic Systems, and Engine performance)

Course Topics: MLR II is the second course in the Automotive Maintenance and Light Repair program of study and covers important skills and knowledge on becoming a professional service technician. The Maintenance and Light Repair II (MLR II) course prepares students for entry into Maintenance and Light Repair III. Students study automotive general electrical systems, starting and charging systems, batteries, lighting, and electrical accessories. Students who successfully complete all MLR courses will have the knowledge needed to pass the ASE certification exam for MLR. Students who pass the exam and meet the work-based requirement will be eligible and encouraged to enter the workforce as an ASE-Certified MLR Technician.

** Concurrent Enrollment credits can be taken in either MLR I or MLR II, but cannot be repeated*

AUTO SERVICE TECHNOLOGY MLR III HIGH PERFORMANCE

GRADES: 12	LENGTH: 1 YEAR	CREDITS: 2.0 CTE	EST. FEES: \$95
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Prerequisites: Maintenance and Light Repair (MLR) I and II or equivalent coursework

Concurrent Enrollment: N/A

Certifications: Continuation of Snap-on Certifications (Wheel Service & Alignment, Advanced Scanner Diagnostics, Pro-Cut on-car Rotor Machining, Battery Starting and Charging), ASE Student Automobile Certifications (Brake Systems, Suspension & Steering Systems, Electrical/Electronic Systems, and Engine performance)

Course Topics: Students learn advanced diagnostic techniques including high performance concepts, Skills USA, and Do you love automotive technology, but want to know more about how to make cars go fast? Do you have a mechanical mind, and don't just love working with cars, but want to maximize horsepower to achieve top speed at the race track? Does this sound like you? In our Automobile High Performance class, you will be part of a team that: Builds a high-performance engine and runs it on a specialized test stand, is exposed to all aspects of engine machining, learns how to tune engines for maximum output and drivability using various data acquisition tools, takes part in an off-site engine dynamometer run, learns to improve performance of engines and maintain peak performance of racing engines, and learns aspects of high-performance chassis, brake and suspension modifications including those on our in-house NASCARs. In addition, students will have opportunities to compete in our SkillsUSA program. Students study and service suspension and steering systems and brake systems. Students who successfully complete all MLR courses will have the knowledge needed to pass the ASE certification exam for MLR. Students who pass the exam and meet the work-based requirement will be eligible and encouraged to enter the workforce as an ASE-Certified MLR Technician.



TRANSPORTATION



TWO YEAR ACCELERATED AVIATION MAINTENANCE PATHWAY

YEAR 1

**ACCELERATED
General Aircraft Maintenance I**
(Half Day, Every Day, Semester 1)
11th-12th grade
This class is the foundation of the Aviation Maintenance program.

**ACCELERATED
General Aircraft Maintenance II**
(Half Day, Every Day, Semester 2)
11th-12th grade
This course is a continuation of ACCELERATED General Aircraft Maintenance I.

SUMMER

Airframe I
11th-12th grade

Introduction to Airframe Studies.

YEAR 2

**ACCELERATED
Airframe II**
(Half Day, Every Day, Semester 1)
11th-12th grade

Continuation of aircraft structures and systems.

**ACCELERATED
Airframe III**
(Half Day, Every Day, Semester 2)
11th-12th grade

Continuation of aircraft structures and systems.

SUMMER

Airframe IV
12th grade

Completion of the FAA required hours for Airframe education and exam preparation.

ACCELERATED GENERAL AIRCRAFT MAINTENANCE I & II

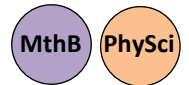
GRADES: 11-12	LENGTH: 1 Year (meets daily)	CREDITS: 2.0 CTE/ 1.0 MTH B/ 1.0 PHY SCI	EST. FEES: \$150
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Prerequisites: Completion of CCIC Math Assessment

Concurrent Enrollment: N/A

Certifications: Snap-on Multimeter, Snap-on Torque, Snap-on Torque Measurement

Course Description: This course covers basic subjects, such as mathematics for aviation, basic physics for aviation, and basic electricity. In addition, this course will provide a foundation for further studies in the aviation maintenance pathway including the FAA coursework and required hours for General Aviation Mechanics.



AIRFRAME I (SUMMER)

GRADES: 11-12	LENGTH: 7.5 hrs/day, 20 days	CREDITS: 1.0 CTE	EST. FEES: \$100
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Prerequisites: General Aircraft Maintenance I & II

Concurrent Enrollment: N/A

Certification: N/A

Course Topics: This course builds on General Aircraft Maintenance I & II. This course will cover wood structures, aircraft coverings, non-metallic structures, and aircraft finishes. The FAA requires 750 total hours for Airframe Maintenance. This summer session is 150 of those hours.

ACCELERATED AIRFRAME II & III

GRADE: 11-12	LENGTH: 1 Year (meets daily)	CREDITS: 3.0 CTE/ 1.0 MTH B	EST. FEES: \$ 150
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Prerequisites: General Aircraft Maintenance I & II, Airframe I

Concurrent Enrollment: N/A

Certifications: N/A

Course Topics: In Airframe II & III, students will continue their study of Airframe Maintenance. Topics include aircraft sheet metal, electrical systems, hydraulic and pneumatic power systems, fuel systems, water and waste systems, and landing systems. The FAA requires 750 total hours for Airframe Maintenance. This year-long course provides 492 of those hours.





TRANSPORTATION



TWO YEAR ACCELERATED AVIATION MAINTENANCE PATHWAY

AIRFRAME IV (SUMMER)

GRADES: 12	LENGTH: 7.5 hrs/day, 20 days	CREDITS: 0.5 CTE/ 0.5 PHY SCI	EST. FEES: \$100
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Prerequisites: General Aircraft Maintenance I & II, Airframe I, II, & III

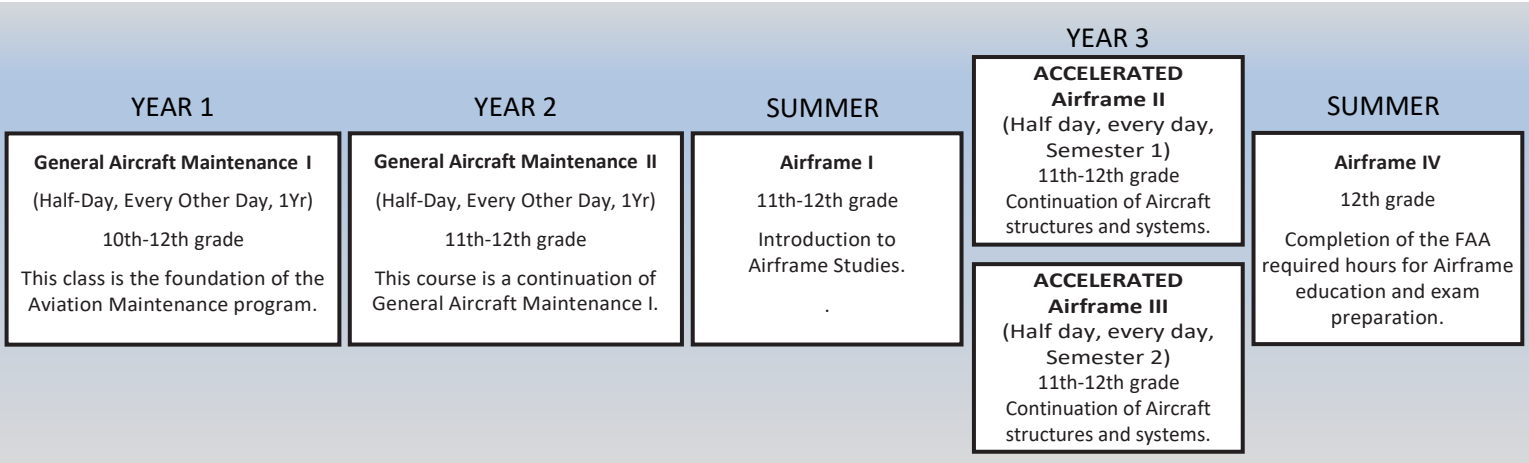
Concurrent Enrollment: N/A

Certifications: N/A

Course Topics: This course is the conclusion of Airframe Maintenance and the remaining 750 hours required by the FAA prior to testing. Topics for the class include instrument systems, communication and navigation systems, and inspection processes.

PhySci

THREE YEAR AVIATION MAINTENANCE PATHWAY



GENERAL AIRCRAFT MAINTENANCE I

GRADES: 10-12	LENGTH: 1 Year	CREDITS: 1.0 CTE/ 1.0 MTH B	EST. FEES: \$75
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Prerequisites: Completion of CCIC Math Assessment

Concurrent Enrollment: N/A

Certifications: : Snap-on Multimeter

Course Topics: This course is an introduction to foundational subjects, such as mathematics for aviation, physics for aviation, and basic electricity. In addition, this course will provide for further studies in the aviation maintenance pathway including the FAA coursework and required hours for General Aviation Mechanics.

MthB

GENERAL AIRCRAFT MAINTENANCE II

GRADES: 11-12	LENGTH: 1 Year	CREDITS: 1.0 CTE/ 1.0 PHY SCI	EST. FEES: \$75
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Prerequisites: General Aircraft Maintenance I

Concurrent Enrollment: N/A

Certifications: Snap-on Torque, Snap-on Torque Measurement

Course Topics: This course builds on the subjects addressed in General Aircraft Maintenance I and completes the 400 hours necessary to begin Airframe. The class prepares students for the General Aircraft Maintenance portion of the FAA Part 147 Aviation Mechanics exam.

PhySci



TRANSPORTATION



THREE YEAR AVIATION MAINTENANCE PATHWAY ✈️

AIRFRAME I (SUMMER)

GRADES: 11-12	LENGTH: 7.5 hrs/day, 20 days	CREDITS: 1.0 CTE	EST. FEES: \$100
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Prerequisites: General Aircraft Maintenance I & II

Concurrent Enrollment: N/A

Certification: N/A

Course Topics: This course builds on General Aircraft Maintenance I & II. This course will cover wood structures, aircraft coverings, non-metallic structures, and aircraft finishes. The FAA requires 750 total hours for Airframe Maintenance. This summer session is 150 of those hours.

ACCELERATED AIRFRAME II & III

GRADE: 11-12	LENGTH: 1 Year (meets daily)	CREDITS: 3.0 CTE/ 1.0 MTH B	EST. FEES: \$ 150
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Prerequisites: General Aircraft Maintenance I & II; Airframe I is recommended

Concurrent Enrollment: N/A

Certifications: N/A

Course Topics: In Airframe II & III, students will continue or start their study of Airframe Maintenance. Topics include aircraft sheet metal, electrical systems, hydraulic and pneumatic power systems, fuel systems, water and waste systems, and landing systems. The FAA requires 750 total hours for Airframe Maintenance. This year-long course provides 492 of those hours.

MthB

AIRFRAME IV (SUMMER)

GRADES: 12	LENGTH: 7.5 hrs/day, 20 days	CREDITS: 0.5 CTE/ 0.5 PHY SCI	EST. FEES: \$100
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Prerequisites: General Aircraft Maintenance I & II, Airframe I, II, & III

Concurrent Enrollment: N/A

Certifications: N/A

Course Topics: This course is the conclusion of Airframe Maintenance and the remaining 750 hours required by the FAA prior to testing. Topics for the class include instrument systems, communication and navigation systems, and inspection processes.

PhySci





TRANSPORTATION



AVIATION FLIGHT PATHWAY

AVIATION FUNDAMENTALS

GRADES: 10-12

LENGTH: 1 SEMESTER

CREDITS: 5 CTE/.5 MTH B

EST. FEES: \$100

Prerequisites: N/A

Dual Enrollment: Metro State University of Denver (AES 1100), \$50 additional fee per MSU credit, 6 credits



Certification: FAA Private Pilot Knowledge Examination preparation

Course Topics: This course presents the fundamentals of aviation for the beginning student which includes a study of the airplane and its components, aerodynamics, basic aircraft systems, the airport environment, air-traffic control procedures, Federal Aviation Regulations, the basic elements of air navigation including radio navigation, and a review of aviation weather. It prepares the student for the Federal Aviation Administration (FAA) Private Pilot Knowledge examination.

DRONE PILOT

GRADES: 10-12

LENGTH: 1 SEMESTER

CREDITS: .5 CTE/.5 MTH B

EST. FEES: \$100

Prerequisites: N/A

Concurrent Enrollment: N/A

Certifications: FAA Remote Pilot Certification (Part 107)

Course Topics: Concepts in this course include drone components, drone operation, drone pilot skills, drone pilot careers, airspace, weather, airport operations, authorizations and waivers and the regulations governing drone operations. At the end of the course students will be prepared to take the FAA Remote Pilot Exam (Part 107). This course would be an applied applications course and could include instruction in aerial photography for commercial purposes, recording instrumentation, topics in inspection for industrial purposes, and data analytics.



To register for this course, please visit www.cherrycreekschools.org/cte and click on the link for the CTE/CCIC Application, or scan the QR code provided on this page.

Esthetics

Grade: 12

Year: 5.0 credit

Prerequisite: N/A

Estimated Course Fees: \$350

Concurrent/Dual Enrollment: Multiple opportunities available

Location: Colorado's Finest High School of Choice in Englewood

This course takes place at Colorado's Finest High School of Choice in Englewood. Students are responsible for their own transportation. Estheticians, also called skin-care specialists, strive to make their clients look and feel younger and more attractive. They cleanse and beautify skin with facials and full-body treatments, apply makeup, remove facial or body hair with hot wax, give head and neck massages and may, with special training, perform microdermabrasion to remove imperfections and signs of age. Many are required to sell skin care products like those who run their own shops are often entrepreneurs involved in all phases of business management and marketing. To be considered for this program, you must attend a parent meeting and orientation. Multiple Concurrent Enrollment opportunities are available in this course. More information will be provided by the instructor. Course begins approximately August 16, 2021. The \$350 course fee includes: esthetics kit (student keeps at completion of program), uniform and consumables. Anticipated session time is Monday - Friday 7:30am - 11:00am.

To register for this course, please visit www.cherrycreekschools.org/cte and click on the link for the CTE/CCIC Application, or scan the QR code provided on this page..

Criminal Justice

Criminal Justice and Law I

Grade: 11, 12

Year: 1.0 credit

Prerequisite: N/A

Estimated Course Fees: N/A

Concurrent/Dual Enrollment: CRJ 110, CRJ 145

Location(s): Cherokee Trail, Eaglecrest, Grandview, Overland and Smoky Hill

This course takes place at Cherokee Trail, Eaglecrest, Grandview, Overland and Smoky Hill. This course is no longer offered at Cherry Creek High School. This course combines Introduction to Criminal Justice (CRJ 110) and Correctional Process (CRJ 145). This course concentrates on potential careers in the criminal justice system and law enforcement in general. Students will learn about the agencies and processes involved in the criminal justice system: the legislature, the police, the prosecutor, the public defender, the courts, and corrections. The course includes an analysis of the roles and problems of the criminal justice system in a democratic society, with an emphasis upon inter component relations and checks and balances. This course aligns with the Colorado Community College course Introduction to Criminal Justice (CRJ 110) and Correctional Process (CRJ 145). Students will have the opportunity to earn high school credit while at the same time enroll in and earn six community college credits with the opportunity to transfer credit to an institution of higher education. If the student is interested in earning community college credit, an additional free application is required. More information can be found at www.cherrycreekschools.org/cte on the Concurrent Enrollment tab.

If the course is available at your home high school, follow the home high school registration process. If not, please visit www.cherrycreekschools.org/cte and click on the link for the CTE/CCIC Application, or scan the QR code provided on this page.

Criminal Justice and Law II

Grade: 12

Year: 1.0 credit

Prerequisite: Criminal Justice and Law I

Estimated Course Fees: N/A

Concurrent/Dual Enrollment: CRJ 205, CRJ 257

Location(s): Cherokee Trail, Eaglecrest, Grandview, Overland and Smoky Hill

This course takes place at Cherokee Trail, Eaglecrest, Grandview, Overland and Smoky Hill. This course is no longer offered at Cherry Creek High School. This course combines Principles of Criminal Law (CRJ 205) and Victimology (CRJ 257). This course focuses on common law and statutory law crimes, the Model Penal Code, elements defining crimes and penalties, defenses to criminal accusations, and definitions and distinctions between criminal and civil law. Victimology demonstrates to the student the role the crime victim plays in the criminal justice system. The traditional response that a crime victim receives from the system will be studied and the psychological, emotional and financial impact these responses have on victimization will be analyzed. This course aligns with the Colorado Community College course Principles of Criminal Law (CRJ 205) and Victimology (CRJ 257). Students will have the opportunity to earn high school

To register for any
of these courses,
scan here:



credit while at the same time enroll in and earn six community college credits with the opportunity to transfer credit to an institution of higher education. If the student is interested in earning community college credit, an additional free application is required. More information can be found at www.cherrycreekschools/cte on the Concurrent Enrollment tab.

If the course is available at your home high school, follow the home high school registration process. If not, please visit www.cherrycreekschools.org/cte and click on the link for the CTE/CCIC Application, or scan the QR code provided on this page.

Design & Multimedia Art

Digital Commercial Photography

Grade: 10, 11, 12

Estimated Course Fees: \$75

Location: Cherry Creek High School

Year: 1.0 credit

Prerequisite: N/A

Concurrent/Dual Enrollment: MGD 111

This course takes place at Cherry Creek High School during 7th period, Monday - Friday and concentrates on the high-end capabilities of Adobe Photoshop as an illustration, design and photo retouching tool. Students explore a wide range of selection and manipulation techniques that can be applied to photos, graphics, and videos. The course competencies and outline follow those set out by the Adobe Certified Associate exam in Visual Communication Using Adobe Photoshop. This dynamic, hands-on, project oriented photography course challenges students to think critically, learn professionalism, and produce critically acclaimed art. Assigned projects prepare students to strengthen their creative eye and see life from a different perspective. Students learn both film and digital photography, use a darkroom and learn the industry standard professional software: Adobe Photoshop. Students will explore career possibilities, develop a resume, and meet photographers, all while preparing for college and industry. This course will include understanding the commercial photography business, composition theory, digital ethics, and competition events, where students produce a portfolio. This course aligns with the Colorado Community College course Adobe Photoshop (MGD 111). Students will have the opportunity to earn high school credit while at the same time enroll in and earn community college credits with the opportunity to transfer credit to an institution of higher education. If the student is interested in earning community college credit, an additional free application is required. More information can be found at www.cherrycreekschools/cte on the Concurrent Enrollment tab.

If the course is available at your home high school, follow the home high school registration process. If not, please visit www.cherrycreekschools.org/cte and click on the link for the CTE/CCIC Application, or scan the QR code provided on this page.

Health Science

Epic Medical Careers

Grade: 11, 12

Estimated Course Fees: \$40

Locations: Cherry Creek, Smoky Hill

Semester: 0.5 credit

Prerequisite: N/A

Concurrent/Dual Enrollment: N/A

This course takes place at Cherry Creek and Smoky Hill before school. In the Epic Medical Careers class, students are introduced to career opportunities through a unique series of lectures. Students will hear from professionals from the medical community such as a plastic surgeon, bio-chemical warfare specialist, emergency room doctor, nurse, genetic counselor, pediatrician, X-ray technician, as well as professionals from the business management and legal careers related to medicine. Students are presented information about each specialty along with the education and other requirements for the many career options within the medical industry. Students may participate in field trips to see how medical professionals are learning, as well as be a part of an emergency room simulation, labor/delivery simulation, and cadaver lab, to which students will see the human body and internal organs.

If the course is available at your home high school, follow the home high school registration process. If not, please visit www.cherrycreekschools.org/cte and click on the link for the CTE/CCIC Application, or scan the QR code provided on this page.

To register for any
of these courses,
scan here:



Transportation - Aviation Flight

Aviation Fundamentals

Grade: 11, 12

Year: 1.0 credit

Prerequisite: N/A

Estimated Course Fees: \$150

Location: Cherry Creek Innovation Campus

The Aviation Fundamentals course is now offered at the Cherry Creek Innovation Campus in the Aviation Flight pathway. Please see the CCIC Course Guide for more information at www.cherrycreekschools.org/ccic.

Work Based Learning Internships and Apprenticeships

The Cherry Creek Work-based Learning program is designed to connect students with career pathways of interest by partnering with businesses in the community. Through these experiences, students will have the opportunity to explore career pathways and develop career readiness skills.

Executive Internship

Grade: 12

Credits: 1.0

Estimated Course Fee: \$15

Concurrent/Dual Enrollment: N/A

Length: 100 Internship hours during Fall, Spring or Summer Semester

The Executive Internship program will provide an opportunity for selected students to have experience in a career field that they would like to pursue after graduation. An academic internship is a form of firsthand learning that integrates knowledge and theory learned in the classroom with practical application and skill development in a professional setting. This work/learning arrangement is overseen by the Internship Coordinator for CCSD. Within the internship, students can expect to do various online work assignments, attend meetings, and complete projects. Professional success also depends on the level of student's maturity, responsibility and reliability. Internships are unpaid. Transportation is the responsibility of the student. **This program is selective. Additional application materials, informational presentation/video review, and an interview are required.**

To register for this course, please visit www.cherrycreekschools.org/cte and click on the link for the CTE/CCIC Application, or scan the QR code provided on this page.

CareerWise Apprenticeship

Grade: 11, 12

Year: 2.0 credit

Estimated Course Fee: N/A

Concurrent/Dual Enrollment: N/A

Length: Hours vary by Apprenticeship

Cherry Creek School District will work collaboratively with CareerWise Colorado and industry partners to create an apprenticeship program unique to the individual student's interests and abilities. In addition to the onsite apprenticeship, students will attend monthly seminars and complete online activities throughout the semester. Eligibility depends on the application and interview process through CareerWise Colorado, in accordance with the student's maturity, reliability, commitment, and graduation status. Transportation is the responsibility of the student. **This program is selective. Additional application materials and an interview are required.**

The registration process for a CareerWise Apprenticeship has three steps. First, students must complete the CTE/CCIC Application. Second, students will be prompted to apply to CareerWise. Third, if approved by CareerWise, students will be contacted by the CCSD Apprenticeship Coordinator. To begin, students should visit www.cherrycreekschools.org/cte and click on the link for the CTE/CCIC Application, or scan the QR code provided on this page. Once the CTE application is complete, additional instructions will be sent to the student's CCSD email account.

To register for any
of these courses,
scan here:





CHERRY CREEK ELEVATION

To view courses from Cherry Creek School District's online school — Cherry Creek Elevation — please visit their website:

<https://www.cherrycreekschools.org/domain/2567>

**Phoenix
Rising**



**Cherry Creek
Elevation
2020**

