SMOKY HILL HIGH SCHOOL
2020-2021
COURSE REGISTRATION GUIDE

A Course Guide
for
Students and Parents

Smoky Hill High School
16100 East Smoky Hill Road
Aurora, Colorado 80015
720-886-5300

QUESTIONS REGARDING THE ACADEMIC PLANNING PROCESS SHOULD BE DIRECTED TO THE FOLLOWING OFFICES:

Graduation Requirements.................................................................Counseling
NCAA Initial Eligibility .....................................................................Counseling
Student’s Educational Plan & Course Registration ..........................Counseling
Student Data (class rank, test scores, etc.) ......................................Counseling
Request for Transcript.....................................................................Post Grad
..................................................................................................Records Office

NOTICE OF NONDISCRIMINATION

Cherry Creek School District No. 5 (“District”) 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. Smoky Hill High School does not discriminate in enrollment or access to any of its available programs. The lack of English skills shall not be a barrier to admission or participation in District activities and programs. The District also does not discriminate in its hiring or employment practices.
INTRODUCTION

The Smoky Hill High School Program of Study contains important information about the student course request process and the courses to be offered during the 2020-2021 school year. This information will be helpful as you select courses.

Each year, Smoky Hill High School creates a new master schedule based on data derived from the student course request process. The expectation is that these course requests represent decisions made collaboratively with the student, the student’s teachers and counselor, and the student’s parents. Based on these requests, courses are scheduled, faculty members are employed, textbooks are purchased, and classrooms are allocated.

Careful planning is essential to a successful and rewarding experience at Smoky Hill High School. A helpful resource will be your Academic Planning Guide to help you to complete the Cherry Creek School District and Smoky Hill High School graduation requirements. Parents, teachers, counselors, and administrators should all be involved in assisting you to develop a comprehensive plan allowing for variety, specific interests, and special preparation for the future. It is important to emphasize that your counselor is available to assist you in your course selections, but the final responsibility for course selections rests with you and your parents. We urge you to play an active role in this important task. We are here to help you.

POLICIES PERTAINING TO COURSE SELECTION:

1. **Class Availability:** While every effort will be made to provide the classes a student has selected during course selection, some classes may not be available due to student enrollment numbers, staffing, and budget.

2. **Course Load:** **Ninth grade students** are required to take **seven** classes per semester. Tenth, eleventh, and twelfth grade students are required to take six classes per semester. Regardless of your grade, district policy requires **four** of the classes to be in the core curriculum areas of English, social studies, mathematics, science or world language. Students needing to take more than six classes because of specific program requirements must have permission from their counselor.

3. **Course Selection Form (9th Grade):** Students should obtain all necessary signatures and return their course selection form by the published deadline. If a student does not turn in a course selection form, a counselor will select classes for him or her.

4. **Course Selection & PowerSchool (10-12th Grade):** Students use the Course Selection Form to help map course selections prior to entering the selections into PowerSchool. If a student does not enter course selections into PowerSchool by the published deadline, a counselor will select classes for him or her.

5. **Schedule Repairs:** Schedule repairs will be made by counselors prior to schedule distribution at fall student check-in. **Schedule repairs are only granted by the counseling department for specific academic circumstances, so please select your courses wisely.**
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GRADUATION REQUIREMENTS

1. Smoky Hill High School has a four-year course of study. Therefore, graduation requirements will be based upon units of credit earned in grades 9, 10, 11, and 12.

2. Twenty-two (22) units of credit must be earned in order to meet district graduation requirements. Specific requirements are listed below. The remaining necessary units of credit will be considered as electives and may be selected from any course in the curriculum.

   **English:**
   - 4 units of credit
   - Specific English courses are required in grades 9, 10, 11.

   **Social Studies:**
   - 3 units of credit
   - 1 unit of US History is required.
   - ½ unit of Government is required.

   **Mathematics:**
   - 3 units of credit

   **Science:**
   - 3 units of credit

   **Physical Education/Health:**
   - 2 units of credit
   - ½ unit of Health is required
   - 1 ½ units of elective PE
     (Food/Nutrition PLUS Contemporary Relationships will satisfy the Health requirement.)

   **Computer/Applied Technology, Performing Arts, Visual Arts, Family and Consumer Sciences, Business and Marketing, Yearbook, Newspaper or Career Tech Education**
   - 1 ½ units of credit
     (After completing 3 units of AVID, a student may request that 1 credit maximum be applied towards graduation requirement.)

3. Sixteen and a half (16 ½) credits of the total of twenty-two (22) credits required for graduation are identified as specific requirements. Because these are deemed basic to each student’s education, they can be completed only through attendance and completion of all expectations in a regular, accredited high school.

BEGINNING WITH THE CLASS OF 2021, ALL GRADUATES OF THE CHERRY CREEK SCHOOL DISTRICT, IN ADDITION TO THE REQUIRED 22 CREDIT REQUIREMENTS, MUST ALSO MEET COMPETENCY BENCHMARKS THAT INDICATE PREPAREDNESS FOR SUCCESS IN COLLEGE AND CAREER, AS DETERMINED BY BOARD POLICY IKF.
(Please refer to the following page.)
Starting with the graduating class of 2021, students must meet or exceed the following graduation requirements to receive a diploma from the Cherry Creek School District. The Cherry Creek School District engaged community stakeholders (parents, students, staff, graduates, local business owners) in the process of updating graduation requirements effective for the class of 2021. The next iteration of excellence in Cherry Creek requires a focus on innovative teaching, thinking and learning in a systemic manner for all students, in every school - every day!

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 career or college readiness in mathematics and English/Language Arts through at least one menu option below.

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<td><strong>ACT</strong></td>
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<td>Bronze or higher</td>
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# ACADEMIC PLANNING GUIDE

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<td>ENGLISH</td>
<td>4 Units of Credit (Specific English courses are required. Please refer to the English section of this document.)</td>
<td>4 Units of Credit (Specific English courses are required.)</td>
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<tr>
<td>SOCIAL STUDIES</td>
<td>3 Units of Credit (1 unit of US History and ½ unit of Government are required.)</td>
<td>3 Units of Credit</td>
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<tr>
<td>MATHEMATICS</td>
<td>3 Units of Credit</td>
<td>4 Units of Credit (Algebra 1 level or higher)</td>
</tr>
<tr>
<td>SCIENCE</td>
<td>3 Units of Credit</td>
<td>3 Units of Credit (2 units must be lab based)</td>
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<tr>
<td>WORLD LANGUAGES</td>
<td>0 Units of Credit</td>
<td>1 Unit of Credit</td>
</tr>
<tr>
<td>PE/HEALTH</td>
<td>2 Units of Credit (1/2 unit of Health and 1 ½ units of elective PE)</td>
<td>Please refer to the individual colleges for specific requirements.</td>
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<tr>
<td>FINE ARTS*</td>
<td>1 ½ Units of Credit</td>
<td>Please refer to the individual colleges for specific requirements.</td>
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*Includes courses from the Computer /Applied Technology, Performing Arts, Visual Arts, Family and Consumer Sciences, Business and Marketing, Yearbook, Advanced Yearbook, Newspaper 1, Newspaper 2 and/or Career Technical Education.

Total of Specific Units of Credit: 16.5 (Minimum)
Total of Elective Units of Credit: 5.5 (Minimum)
Total Units of Credit: 22.0 (Minimum)
COLLEGE ADMISSIONS INFORMATION

It is very important that students and parents begin early in the student's high school career to consider general and specific requirements for college admissions. Admission requirements vary for each college, university, technical, art, or other post high school institution. These range from a high school diploma to four years of English, math, science, social studies, world language, and other specific courses. Although no single program of high school preparation will guarantee college admission, there are high school courses which will give students better preparation for the specific school they want to attend and will also give them better preparation for the college admissions tests. Generally speaking, the better the preparation in high school, the wider the choice of college upon graduation.

As a general guideline, the following areas and courses are considered important in preparing for college:

**English:**
Since colleges continue to place emphasis on the ability to write and express oneself clearly and accurately, writing and grammar courses should be included in your planning. Most colleges require four years of English.

**Mathematics:**
Algebra 1, Geometry, and Algebra 2 are considered basic preparation by many colleges. Anyone contemplating a career related to math and science, such as engineering, should have eight semesters of high school math, including calculus.

**Science:**
At least six semesters of lab science is required; some colleges required as much as eight semesters, including one in biology and one in chemistry or physics. Anyone contemplating a career related to science should complete eight semesters of high school science.

**Social Studies:**
In addition to the Smoky Hill US History and Government requirements, many colleges recommend that students should have courses in history, geography, or other social studies. Some colleges require a total of six or more semesters of high school social studies.

**World Language:**
Colleges vary in this admission requirement. Many colleges require successful completion of two to four levels of the same world language. Students who successfully complete World Language requirements broaden their opportunities for admissions.

**Other Courses:**
Colleges are not only interested in the areas of English, math, science, social studies, and world language, but also in computer science, applied technology, fine arts, family and consumer sciences, and business/marketing which are offered at Smoky Hill High School. Although colleges place emphasis on academic subjects, the most selective colleges recognize achievement in all courses, as well as in co-curricular activities. Please refer to individual college admission standards for specific requirements.

Information regarding careers, college admissions, and post high school planning is available in the Post Graduate Center. Counselors are available to assist students with college and career planning or other post high school planning. Students are expected to meet with their counselor each year to discuss both their short and long range plans.
NAVIANCE

Family Connection from Naviance is a web-based service designed especially for students and parents. Family Connection is a comprehensive website to help students and parents make decisions about colleges and careers. Family Connection is linked with Counselor’s Office, a service that the counseling office uses to track and analyze data about college and career plans. It provides up-to-date information that is specific to Smoky Hill.

Family Connection will allow students and parents to:

- **Get involved in the planning and advising process** – Build a resume, complete online Surveys, and manage timelines and deadlines for making decisions about colleges and careers.

- **Research colleges** – Compare GPA, standardized test scores, and other statistics to actual historical data from our school for students who have applied and been admitted in the past.

- **College visits** – Find out which colleges are visiting our school and attend the sessions.

- **Receive important information** – Receive information on upcoming meetings and events, local scholarship opportunities, and other online resources for college and career information.

To visit our school Family Connection site, use your web browser to connect to: http://connection.naviance.com/smokyhill

When you visit for the first time, please enter your personal registration code, which is the student’s identification number, in the New User box and follow the on-screen instructions to create your own account.

Once you have your own account, you will sign in using the user name and password you chose during the registration process.

We hope that you will find this resource helpful. If you have further questions about Family Connection, please contact the counseling office.
ADVANCEMENT VIA INDIVIDUAL DETERMINATION (AVID)

The AVID Classroom
The Advancement via Individual Determination program, better known as AVID, is designed to push students to a higher rigor at an appropriate pace, while providing in-class support through an AVID class. It is directed towards college bound students who would thrive by building strong relationships with their teachers and peers, while also adding successful college skills to their toolbox.

The AVID class supports students through a variety of strategies. In the class, students work on skills such as time management, Cornell note taking, critical reading, research, collaboration, communication, inquiry, and organization. Teachers stress the importance of “writing as a tool for learning” and help support students through daily tutorials sessions led by trained tutors. The goal of the AVID tutorial session is to help students with the process of learning through inquiry, rather than giving students the answers to their questions. Students also learn the value of collaboration and develop skills in writing “higher order thinking questions,” according to Costa's three levels of questioning.

The foundation of the AVID program is to prepare and motivate students for college. The AVID class activities emphasize test-taking skills and focus extensively on the math and English language concepts seen on standardized tests. Students have the opportunity to practice “mock” SAT and ACT exams, so they are fully prepared on test day. AVID classes also participate in motivational activities, including college and career research, community service learning experiences, college fairs, leadership conferences, and college field trips to UNC, Metro, CSU, Mesa, Western State, Wyoming, DU, and CCS.

AVID and Elective Classes
AVID is a structured support program and not a separate curriculum. AVID students are open to a variety of electives based on their interest and current state requirements.

AVID and Advanced Placement (AP) Courses, Honors, and Concurrent Enrollment
AVID students are expected to increase their rigor of classes each year. One-on-one conferences with the student's AVID teacher will help determine when students are ready to increase their rigor. All AVID students are expected to complete a minimum of one AP or concurrent enrollment class during the course of high school. AP courses are offered grades 9-12.

*Students enrolled in MYP may take AVID.

AVID with Distinction
Students who are involved in AVID are eligible to receive a series of additional awards and scholarships specifically designed for AVID students. Listed below are some of these awards.

**AVID with Distinction:** Granted to AVID students who complete 40+ hours of community service, maintain a 2.5 GPA or better, and complete a minimum of one AP class and test.

**SHHS AVID Scholarship:** Students who complete 3 years of SHHS AVID are eligible to receive up to $2000 from the SHHS AVID Scholarship Fund.

**CCSD AVID Scholarship:** Students who complete 3 years of AVID in CCSD are eligible to receive money from the CCSD AVID Scholarship Fund.

**The Dell Scholars Program** is offered to those high school students participating in an approved AVID program. The funding for each Dell Scholar is $20,000.

**Scholarship Application Assistance:** The senior teacher and counselor work together to find other scholarships and assist students in their applications.

*If you have any further questions regarding the SHHS AVID program and course offerings, please contact Laura Buddington, at lbuddington@cherrycreekschools.org or 720-886-5614.*
Concurrent Enrollment Courses

Smoky Hill High School offers numerous Concurrent Enrollment credit courses. The Concurrent Enrollment program creates options for students still in high school to receive both high school credit and college credit for Concurrent Enrollment classes. In partnership with our greater community, we are an extended campus of the Community College of Aurora and Arapahoe Community College.

Concurrent Enrollment courses prepare 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, prerequisites, 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.

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*Optional credits available at reduced cost

For further information contact Mr. Andre Bala, Assistant Principal at 720-886-5424.
ADVANCED PLACEMENT (AP) CLASSES

The major purpose of Advanced Placement (AP) courses is to give Smoky Hill students the opportunity to take college level classes which are challenging and thought provoking. At the same time, AP courses provide the chance for students to gain advanced placement and/or credit in the college of their choice.

Advantages of taking AP classes:
- AP courses and exams begin the journey through college level academics.
- Collegiate institutions recognize that applicants with AP experience are better prepared for the demands of college.
- Tuition savings are realized for students whose AP exam grades are considered acceptable because of the credit and/or advanced placement granted by most US colleges.
- AP students are eligible for honors and other special programs in college.

Expectations for students enrolled in AP courses:
- Commitment to the time necessary to complete the rigorous coursework. Students should expect 1 ½ hours per class session and/or teacher led out-of-class AP study sessions. Some classes may also require summer homework.
- Enrollment in the course for the entire school year. The time commitment and depth of the content can sometimes be overwhelming; however, those are not reasons for dropping or transferring.
- Register and sit for the spring AP exam. The cost for one AP exam is approximately $95 and partial exam scholarships may be available.

Smoky Hill AP Courses

**English:** AP English Language, AP English Literature

**Social Studies:** AP US History, AP European History, AP Psychology, AP US Government, AP Human Geography

**Math:** AP Calculus AB, AP Calculus BC, AP Statistics

**Science:** AP Biology, AP Chemistry, AP Physics, AP Environmental Science

**World Languages:** AP Spanish, AP Japanese, AP Latin

**Other:** AP Art History (Visual Arts), AP Microeconomics (Business)

AP Scholar Awards Program

**AP Scholar:** Granted to students who receive 3.0 or higher on three or more AP exams on full year courses (or the equivalent).

**AP Scholar with Honor:** Granted to students who receive an average grade of at least 3.25 on all AP exams taken and grades of three or higher on four or more of these exams on full year courses (or the equivalent).

**AP Scholar with Distinction:** Granted to students who receive an average of at least 3.5 on all AP exams taken and grades of three or higher on five or more of these exams on full year courses (or the equivalent).

**National AP Scholar:** Granted to students in the US who receive an average grade of at least 4.0 on all AP exams taken, grades of four or higher on eight or more of these exams on full year courses (or the equivalent).
INTERNATIONAL BACCALAUREATE MIDDLE YEARS PROGRAMME

The IB Middle Years Programme, for students aged eleven to sixteen, provides a framework of academic challenge that encourages students to embrace and understand the connections between traditional subjects and the real world, and become critical and reflective thinkers. The program consists of eight subject groups integrated through six global context that provide lenses for learning within and across the subjects. The emphasis is on the fluidity of the curricular framework and the interrelatedness of the subjects. Aspects of the areas of interaction are addressed naturally through the distinct disciplines. The overall philosophy of the program is expressed through three fundamental concepts that support and strengthen all areas of the curriculum. These concepts are based on intercultural awareness, holistic learning, and communication.

The IB Middle Years Programme curriculum at Smoky Hill High school consists of eight groups:

- **Language and Literature:** IB MYP English
- **Language Acquisition:** Spanish, Japanese or Latin
- **Individuals and Societies:** IB MYP World Geography and Government, IB MYP American History
- **Sciences:** Honors Biology, Chemistry Honors, and AP Biology
- **Mathematics:** Algebra 1, Geometry, Geometry Honors, Algebra 2 Honors/Trigonometry, Math Applications, Math Analysis
- **Art:** Visual: Drawing/Painting, Photography/Digital Mixed Media, or Pottery/Sculpture
  Performing: Band, Choir, Dance, Orchestra, or Theatre
- **Design:** Marketing, Computer Design, Yearbook, or Student
- **PE and Health:** Physical Education and Health (full year course)
- **Further Requirements:** Personal Project

**Personal Project:** In the final year of the program (10th grade), each student is required to complete a personal project. This project is a significant piece of work that is the product of the student’s own initiative and creativity. Each IB student is responsible for their own choice of topic, development of criteria, planning implementation, and reflection on processes and progress, all of which is explored through their chosen global context. The entire project is completed under the supervision of a teacher and community mentor. Students present their projects on Super Saturday with an authentic audience and attend a completion ceremony.

For further information contact Mrs. Kathleen Fitzgerald, International Baccalaureate Middle Years Coordinator at 720-886-5420.

INTERNATIONAL BACCALAUREATE DIPLOMA PROGRAMME

The IB Diploma Programme is a comprehensive and rigorous two-year curriculum, leading to examinations, for students aged between sixteen and nineteen. Based on the pattern of no single country, it is a deliberate compromise between the specialization required in some national systems and the breadth preferred in others. The general objectives of the IB program are to provide students with a balanced education; to facilitate geographic and cultural mobility; and to promote international understanding through a shared academic experience.

The IB Diploma Programme curriculum at Smoky Hill High school consists of six groups with studies in:

- **Language and Literature:** English – this includes the study of World Literature.
- **Language Acquisition:** A choice of: Spanish, Japanese or Latin
- **Individuals and Societies:** History of the Europe or History of the Americas in 11th grade and History of the Contemporary World in 12th grade
- **Experimental Sciences:** Physics, Chemistry, and Ecosystems and Societies
- **Mathematics:** Math Applications, Math Analysis, Calculus (Standard Level and Higher Level)
- **Sixth Subject:** Business, Digital Media, Music, Psychology, Theater Arts, or Visual Arts
- **Further Requirements:** Extended Essay, Theory of Knowledge, and Creativity, Activity, Service (CAS) hours

The **Extended Essay (EE)** is an independent, self-directed piece of research finishing with a 4,000 word paper. This is completed their senior year with supervision of a selected teacher.

The **Theory of Knowledge (TOK)** course taken second semester Junior year and first semester Senior year explores the relationships among the various disciplines and ensures that students engage in critical reflection and analysis of the knowledge acquired within and beyond the classroom.

**Creativity, Activity, Service (CAS)** requires students to take part in a range of student service learning experiences, activities, and projects.

All IB Diploma Candidates are required to test in one subject from each of the groups. At least three and not more than four of the six subjects are taken at the Higher level, the others at Standard level. Each examined subject is graded on a scale of 1 (minimum) to 7 (maximum). The award of the Diploma requires a minimum total of 24 points and the satisfactory completion of the Extended Essay, TOK, and CAS. Bonus points may be awarded for the exceptional essay or performance in Theory of Knowledge.

For further information contact Mr. Michael Ady, International Baccalaureate Diploma Coordinator at 720-886-5420.
**INTERNATIONAL BACCALAUREATE COURSE SEQUENCE**

**HL=Higher Level Examinations**

**SL =Standard Level Examinations**

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* **Physical and Health Education** is a one year course; one additional year of PE required for CCSD graduation.

** Art opportunities: Visual: Drawing/Painting, Photography/Digital Mixed Media, or Pottery/Sculpture  
Performing: Band, Choir, Dance, Orchestra, or Theatre

*** **Design opportunities: Computer Design, Marketing, Student Leadership, or Yearbook

****Sixth Subject electives: Business (HL, SL), Chemistry (SL), Digital Art (HL, SL), Environmental Systems & Societies (SL),  
Music (HL, SL), Psychology (HL, SL), Theatre (HL, SL), or Visual Art (HL, SL)
DEPARTMENT FLOWCHARTS

Each department has developed a flowchart to help guide students in course selections. The flowchart precedes department course descriptions and demonstrates expected course sequences.

Department Course Descriptions

Department course descriptions follow department flowcharts. The course descriptions are listed in alphabetical order.

Below is a sample course description in the style used throughout the guide. Carefully read the explanations provided.

**Course Title:**
Titles are for reference only. Read the entire description and talk to teachers, counselors, and parents before deciding if a particular course meets your needs, interests, and abilities.

**Grade Levels:**
States the grade level that may enroll in the course.

**Course Credit:**
States the credit upon successful completion.

**Prerequisite:**
States what must be successfully completed before enrolling in this course.

**Algebra 2**  
**Grades:** 9, 10, 11, 12  
**Year:** 1 credit  
**Prerequisite:** Prerequisite: Algebra 1 and Geometry with “C”

Algebra 2 students study both real and complex numbers, as well as relations, functions, and their operations. Students will work with linear, quadratic, and higher-order polynomial, radical, rational, absolute value, exponential/logarithmic functions, including graphing and transformations of graphs. It is expected that students have regular access to a graphing calculator. We recommend a TI83+ or TI 84+.

**Description:**
States the intent of the class and possible types of class activities, content, and instruction.

Courses with the designation next to the course title are Concurrent Enrollment courses. The courses are offered during the school day and taught by qualified high school teachers. Specific course alignment and requirements are outlined in the course description.

**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.**
BUSINESS & MARKETING

BUSINESS

9th-12th

Accounting

Business and Personal Finance

Sports & Entertainment

Intro to Business

10th-12th

Accounting 2 (CE)

11th-12th

AP Economics*

*Dependent on staffing/teaching assignments. Course may be moved from a Fine Arts credit to a Social Studies credit.

MARKETING

9th-12th

10th-12th

11th-12th

Marketing 1

Marketing CO-OP School

Social Media & Digital Marketing

Sports & Entertainment

IB Business SL

IB Business HL
BUSINESS
*Courses with weighted grades

ACCOUNTING 1
Prerequisite: None
Grades: 9, 10, 11, 12
Year: 1 credit

Accounting 1 is an introductory course designed to acquaint students with the accounting cycle and an understanding of the role accounting plays in the ongoing operation of a business. During this year-long class, students will learn the fundamentals of accounting using a sole proprietorship and corporation as a basis for study. Students will develop an understanding of business activities by recording and summarizing basic accounting transactions, preparing financial statements, payroll records, income tax forms, and interpreting financial statements as a part of the management decision-making process. A combination of manual and PC-based automated accounting systems will be used. This course is the first in a two-year program. Students who elect to complete the two-year program will receive community college credit. Students are encouraged to join FBLA (Future Business Leaders of America).

ACCOUNTING 2
Prerequisite: Accounting 1 and Instructor Approval
Grades: 10, 11, 12
Year: 1 credit

This course aligns with the Colorado Community College course Accounting Principles 1 (ACC 121). Students will earn high school credit while at the same time enroll in and earn community college credit with the opportunity of transferring credit to a four-year university. In this course, students learn the fundamentals of accounting using sole proprietorships, partnerships, and corporations organized as service providers, merchandising, and manufacturing concerns. Students develop an understanding of business activities by recording and summarizing business transactions, preparing financial statements, payroll records, and financial analysis of business data. A combination of manual and PC-based automated accounting systems will be used. Students are encouraged to join FBLA (Future Business Leaders of America).

*AP MICROECONOMICS
Prerequisite: Instructor Approval
Grades: 11, 12
Year: 1 credit

This class is equivalent to a one semester college course in microeconomics and macroeconomics. The course covers the concepts of supply and demand, the workings of a firm, factors of production, efficiency, and the role of government in our economy. This course will apply these concepts to current events and issues. Students are expected to take the AP Microeconomics and Macroeconomics exam in May.

BUSINESS AND PERSONAL FINANCE
Prerequisite: None
Grades: 10, 11, 12
Semester: ½ credit

Business and Personal Finance is designed to help students develop their abilities to make wise financial decisions by recognizing, understanding, and comparing the alternatives facing them as individuals. Additionally, students will learn how businesses manage their finances. Topics include: decision making, earning a living, managing finances and budgeting, saving and investing, buying goods and services, banking, using credit, and protecting against risk. Business and Personal Finance course units integrate and align with the Colorado Financial Literacy Standards. Students are encouraged to join FBLA (Future Business Leaders of America).

BUSINESS LAW 1
Prerequisite: None
Grades: 10, 11, 12
Semester: ½ credit

Business Law will address legal topics concerning business and the individual. Topics of discussion will 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 will also include 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). Ninth grade students will not be eligible for Concurrent Enrollment credit. This course aligns with the Colorado Community College course BUS 216 Legal Environment of Business.

INTRODUCTION TO BUSINESS
Prerequisite: None
Grades: 9, 10, 11, 12
Semester: ½ credit

Introduction to Business is designed to give the student a background in the fundamental principles of business, including making decisions, budgeting, conducting business in a private enterprise system, and an understanding of government and labor in our system. You will also explore the principles of bookkeeping, marketing research, and consumer law. Ninth grade students will not be eligible for Concurrent Enrollment credit. This course aligns with the Colorado Community College course BUS 115 Introduction to Business.
**MARKETING**

*Courses with weighted grades*

**IB BUSINESS AND MANAGEMENT SL (DECA)**

Grades: 11, 12  
Year: 1-2 credit  
Prerequisite: MYP, Instructor Approval, Marketing recommended

IB Business and Management SL is a Group 3 option for IB Diploma Candidates or a second/third year course in the Marketing program. It can also be a sixth subject course for IB students, or a prerequisite for junior IB students who wish to test at the higher level in IB BM in their senior year. One of the major objectives of IB BM SL is to prepare IB juniors for the SL exam in May. This course will help students gain an understanding of the dynamic nature of business and organizations. We will explore how and why organizations are formed, roles of individuals and groups, and current challenges organizations face from social and technological changes. Specific topics covered will include: marketing, finance, and human resource management. Junior IB students who choose to test at the SL will also be required to complete an Internal Assessment written assignment. On-the-job training credit can be a part of this course, and a community service project for CAS hours will be an option for IB juniors. Membership in DECA is an important part of any Marketing class; therefore, students will be encouraged to join our local DECA chapter. (There is a required local, state, and national DECA dues fee.)

**Note:** Employment at a part-time job or school store will count as one credit.

**IB BUSINESS AND MANAGEMENT HL (DECA)**

Grades: 12  
Year: 1-2 credit  
Prerequisite: IB Business and Management SL

IB Business and Management HL is a rigorous and critical study of the ways in which individuals and groups interact in a dynamic business environment. It is an academic discipline that examines how business decisions are made and how these decisions make an impact on the internal and external environments. A fundamental feature of this course is the concept of synergy. In its technical sense, it is a concept that means an organization should see an overall return greater than the sum of its parts. It is a third-year course in the Marketing program and can also be a Group 3 HL or MYP subject for senior IB students who have completed IB BM SL. One of the major objectives of IB BM HL is to prepare IB seniors for the HL exam in May. Senior IB students who choose to test at the HL will also be required to complete an Internal Assessment research project. On-the-job training credit can be part of the course. Membership in DECA is an important part of any Marketing class; therefore, students will be encouraged to join our local DECA chapter. (There is a required local, state, and national DECA dues fee.)

**Note:** Employment at a part-time job or school store will count as one credit.

**MARKETING 1 (DECA)**

Grades: 10, 11, 12  
Year: 1 credit  
Prerequisite: None

Marketing 1 is a full-year course designed for the student who wants to explore marketing, sales, and the business world. Units of study include: advertising, sales, promotion, product planning, pricing, economics, distribution, computer simulations, and professional human relation skills. According to Princeton Review, the #1 college major in the United States is Business. Marketing 1 exposes students to the exciting and dynamic world of marketing and business. **This course will satisfy the IB MYP Design requirement.**

Marketing 1 is a prerequisite for Marketing 2 that simultaneously offers high school and college credit. Only students enrolled in Marketing classes can participate in DECA, a co-curricular 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 of $30 is involved.

**MARKETING COOP (DECA)**

Grades: 11, 12  
Year: 1 credit  
Prerequisite: Marketing 1 and Enrollment in Marketing 2, Sports and Entertainment, IB BM SL or IB BM HL

On-the-job training will be coordinated with Marketing 2, Sports and Entertainment Marketing, or IB Business and Management. The student must be enrolled in one of these courses to obtain work credit. Employment in a Marketing related job or in the school store will count as one credit. Students need to work 125 hours each semester.

**SPORTS AND ENTERTAINMENT MARKETING (DECA)**

Grades: 9, 10, 11, 12  
Year: ½ credit  
Prerequisite: Marketing 1 AND Instructor Approval

Sports and Entertainment Marketing is designed for second or third year marketing students interested in business and marketing within the sports and entertainment environment. On-the-job training is optional as part of this course for second or third year Marketing students. The course will help students gain an understanding of the dynamics involved in one of the most profitable industries in the United States. Topics of instruction will include: the history and background of sports and entertainment marketing, legal issues, business risks, how sports and entertainment impacts the economy, pricing, branding and licensing, elements of good marketing plans, and related careers. There will be an emphasis on current issues and case studies, along with Internet applications that will allow retrieval of relevant information. Membership in DECA is an important part of the Marketing program; therefore, students will be encouraged to join our local DECA chapter. (There is a local, state, and national DECA dues fee.)

**Note:** Employment at a part-time job or school store will count as one credit.

**SOCIAL MEDIA AND DIGITAL MARKETING**

Grades: 10, 11, 12  
Year: ½ credit

This course will focus on understanding and effectively using strategies of marketing. The course is designed to provide key concepts and learning experiences with social media marketing. Also presented are foundational elements of marketing and concepts on digital marketing practices. By gaining an understanding of foundational concepts; creating practical, hands-on projects; and experiencing social media marketing through an online simulation, students will have a foundation to help them succeed in social and digital marketing. Students will be encouraged to join and participate in DECA, a co-curricular marketing and business club that prepares emerging leaders and entrepreneurs for careers in business, marketing, finance, hospitality, management, and other business related fields, in high schools and colleges around the globe.
DIGITAL DESIGN

*Courses with weighted grades

3D DESIGN AND ANIMATION

Grades: 9, 10, 11, 12  
Semester: ½ credit

Prerequisite: None

Students will study methods and techniques involved with 3D design and animation, as well as concept design. Topics covered include: 3D modeling techniques, lighting, rendering, animation, the 3D printing process, and other industry skills. Techniques and applications taught are used in numerous professional careers, including: all fields of engineering, the medical industry, forensics, graphic design & advertising, scientific research, military simulations, game design, and film production. This course is ideal for artists and students pursuing careers in architecture, engineering, industrial design, game design, and entertainment industries. **This course will satisfy the IB MYP Design requirement.**

Note: Lab fee of $10 is required for art supplies and materials.

ADVANCED 3D DESIGN

Grades: 10, 11, 12  
Semester: ½ credit

Prerequisite: 3D Design and Animation or Instructor Approval

Students will continue with methods and techniques gained from “3D Design and Animation” while exploring 3D production in more depth. Topics covered include: concept design, advanced 3D modeling techniques, production rendering, the 3D printing process, and other industry skills. Students will use various professional applications including Autodesk Design & Creation Suite and Pixologic ZBrush, to create digital sculptures, models, pre-visualizations, and animations. This course is ideal for artists and students pursuing careers in architecture, engineering, industrial design, game design, and entertainment industries. **This course will satisfy the IB MYP Design requirement.**

Note: Lab fee of $10 is required for art supplies and materials.

2D DESIGN

Grades: 9, 10, 11, 12  
Semester: ½ credit

Prerequisite: None

Students will explore concept design and how digital tools can be used for visual communication, advertising & marketing, industrial visualization, product design, animation, and as an artistic tool. Students will be taught how to translate various traditional art skills, concepts, and techniques into a digital medium. Topics include: design, illustration, digital painting, imaging, and animation using professional hardware and software applications. This class is ideal for artists, designers, photographers, and students pursuing careers in engineering, industrial design, or architecture. **This course will satisfy the IB MYP Design requirement.**

Note: Lab fee of $10 is required for art supplies and materials.

DESIGN PORTFOLIO

Grades: 11, 12  
Year: 1 credit

Prerequisite: Completion of at least one design class (2D Design, 3D Design & Animation, Advanced 3D Design or Instructor Approval)

This is an intensive, one year course that guides design students in skill, project and portfolio development. Students will create final products based on original concept designs. It is structured to encourage individual exploration of a variety of applications, artistic mediums, design styles, and the ever changing technology trends. Techniques and applications taught are used in numerous professional careers, including: engineering, architecture, industrial design, forensics, medical & scientific research, military simulations, graphic design, advertising, game design, and film production. The curriculum will help guide students to become active independent learners and better prepare them for their future career. This course is ideal for artists and students pursuing careers in architecture, computer science, engineering, industrial design, game design, and entertainment industries.

Note: Lab fee of $30 for art supplies and materials

*IB DIGITAL ART SL/HL

Grades: 11, 12  
Year: 1 credit

Prerequisite: Completion of at least one design class (2D Design, 3D Design & Animation, Advanced 3D Design or Instructor Approval)

IB Digital Art is an intensive, two year course that guides students to develop aesthetic, conceptual, technical, and cultural knowledge of both digital media and visual arts. It is structured to encourage individual exploration of a variety of media, art styles, movements, cultures, and societies. Students enrolled in this course will test either at the Standard Level (SL) or Higher Level (HL) as a senior. The culminating event for the senior student is the IB Visual Arts Exhibition Portfolio. The student’s portfolio will be submitted to an independent trained IB examiner. The exam consists of an assessment of the student’s studio work and research created over the two-year period.

Note: Lab fee of $40 is required for art supplies and materials.
INTRODUCTION TO COMPUTER SCIENCE

Prerequisite: Concurrently enrolled in Geometry or higher

Through a project-oriented approach, students will explore a variety of programming languages, which may include as Mathematica, Python, Math lab and Java, to learn the fundamentals of coding and to analyze real world problems and situations. By collaborating in a hands-on environment, students will learn problem solving, software design, debugging strategies, and the foundations of computer science (data structures, procedures, and algorithms). Additionally, students will learn the basics of object-oriented programming, using objects and classes to solve various problems.

*AP COMPUTER SCIENCE PRINCIPLES

Prerequisite: Intro to Computer Science or Previous Programming Experience AND Geometry (may be taken concurrently)

AP Computer Science Principles offers a multidisciplinary approach to teaching the underlying principles of computation. The course will introduce students to the creative aspects of programming, abstractions, algorithms, large data sets, the internet, cybersecurity concerns, and computing impacts. AP Computer Science Principles will give students the opportunity to use technology to address real-world problems and build relevant solutions. Together, these aspects of the course make up a rigorous and rich curriculum that aims to broaden participation in computer science.
AUTOMOTIVE

*Courses with weighted grades

AUTOMOTIVE TECHNOLOGY I

Grades: 10, 11, 12
Year: 1 credit
Prerequisite: None

This coed course offers students an understanding of the principles and fundamentals of automotive systems and the safe use of hand and power tools, instruments, and test equipment. A full year of study involves the following systems: cooling, power train, brakes, lubrication, alignment, starting/charging, electrical, ignition, fuel, and suspension systems. Emphasis is placed on safe working practices, preventive maintenance, basic troubleshooting/diagnosis, and tune-up procedures. These will take place through classroom and laboratory learning experiences.

Note: Lab fee of $20 is required.

AUTOMOTIVE TECHNOLOGY II

Grades: 11, 12
Year: 2 credits
Prerequisite: Automotive Technology 1

This course aligns with the Colorado Community College courses ASE 101, 122, 250, 103 and 264. Students will earn high school credit while at the same time enroll in and earn Arapahoe Community College credit toward a Maintenance and Light Repair (MLR) Certificate then a 2 year Associated Applied Science (AAS) A NATEF certified (National Automotive Technicians Education Foundation) course for those students interested in the auto mechanics field. It is an in-depth study of the design, maintenance and repair of the automobile. The course consists of: 1) automotive engine performance with a strong emphasis on hand-held oscilloscopes, engine analyzers, scan tool diagnosis, engine design and repair, and emission diagnosis; 2) steering and suspension; 3) brakes; 4) automobile electrical and electronic systems from the charging system to the on-board computer. Students will become proficient with a digital volt-ohm meter and gain a fundamental understanding of automotive electrical systems. Lab fee of $25 is required.

Note: Students will become members of the SKILLS USA for social and professional improvement.

AUTOMOTIVE TECHNOLOGY III

Grades: 12
Year: 2 credits
Prerequisite: Auto Technology II AND Instructor Approval

This course aligns with the Colorado Community College courses ASE 101, 122, 250, 103 and 264. Students will earn high school credit while at the same time enroll in and earn Arapahoe Community College credit toward a Maintenance and Light Repair (MLR) Certificate then a 2 year Associated Applied Science (AAS) This course expands on the four NATEF areas covered in Auto Technology II. A large part of the student’s time will be spent in laboratory situations and supplemented with lecture and demonstration sessions to ensure the mastery of all areas mentioned in Auto Technology II. Students will become members of SKILLS USA for social and professional improvement.

Note: Instructed by an ASE certified Master Automobile Technician. Many topics such as job opportunities, work place professionalism, and current technology will be addressed throughout the course. Lab fee of $25 is required.

CONSUMER AUTOMOTIVE

Grades: 9, 10, 11, 12
Semester: ½ credit
Prerequisite: None

Did your car start today? This is a class in auto SURVIVIAL! It is designed to help students be more knowledgeable consumers. This course provides a working experience with cars. After classroom sessions in safety, students will perform supervised maintenance on a vehicle. The safe and proper use of equipment is stressed. All students should take this class to be able to do basic auto maintenance.

Note: Lab fee of $10 is required.

ELECTRONICS 1

Grades: 10-12
Semester: ½ credit
Prerequisite: Algebra 1

This course will provide students with the background knowledge and skills to be successful in careers where strong electronics background is a critical part of success. The course will cover the mathematical and scientific processes foundational to electrical/electronic theory necessary for understanding circuit operation. The students will develop technical skills by prototyping circuits in order to gain understanding of components and their operation in application. They will learn introductory programming skills by learning the fundamentals of “C” language. They will then apply all to building feedback loop systems while they explore physical computing, the basis of robotics, and mechatronic system development.
ENGLISH

STANDARD/ADVANCED

9th-12th

English 9

English 9 Honors

10th-12th

English 10

English 10 Honors

11th-12th

American Literature

American Literature Honors

AP English Lang/Comp

12th

English 12

CP English 12

AP English Lang/Comp

AP English Lit/Comp

CE Literature 115 (Sem)

CE Introduction to Composition 121 (Sem)

INTERNATIONAL BACCALAUREATE

9th-12th

IB MYP English 9

IB MYP English 10

10th-12th

11th-12th

IB English 11

12th

IB English 12

OPTIONAL ELECTIVE COURSES FOR NON-ENGLISH CREDIT

Yearbook (9-12)

Advanced Yearbook (9-12)

Newspaper 1 (9-12)

Newspaper 2 (9-12)

Competitive Speech & Debate (9-12)

Reading Essentials I (9-10)

Reading Essentials II (10-12)
ENGLISH DEPARTMENT

*Courses with weighted grades

GUIDELINES FOR SELECTING ENGLISH COURSES

All students must earn four units of English credit in order to graduate from Smoky Hill High School. Placement in all courses is based on teacher recommendations and or testing.

Ninth grade students will take English 9, English 9 Honors, or IB MYP English 9.

Tenth grade students will take ENG 10, English 10 Honors, or IB MYP English 10.

Eleventh grade students will take American Literature, American Literature Honors, AP English Language and Composition, or IB English 11.

Twelfth graders will complete either a full-year or semester course. The full-year courses include AP English Language and Composition, AP English Language and Composition (if not taken previously), English 12, CP English 12, and IB English 12.

Semester course options include CE Literature 115 and CE Composition 121.

AMERICAN LITERATURE

Grades: 11
Year: 1 credit
Prerequisite: Completion of English 10 or English 10 Honors

This course, focused on American Literature, builds upon students’ language skills in the areas of writing, reading, listening, speaking, and researching. While a major focus of the course will be on academic writing, students will undertake their studies through a number of “Inquiry Units,” which will provide essential questions for students to frame their work. Students will develop the skills necessary to communicate effectively in writing and speaking. They will also learn how authors of fiction, non-fiction, drama, and speeches craft their works to convey meaning to their audiences. Students will prepare for various college admission tests, as well as the CCSD Capstone Demonstration of Proficiency.

*AMERICAN LITERATURE HONORS

Grades: 11
Year: 1 credit
Prerequisite: Completion of English 10 or English 10 Honors; Teacher Recommendation

This course is designed for students who have demonstrated advanced development of language-related skills in 10th grade and would like additional development before attempting an AP level course. This course, focused on American Literature, builds upon students’ language skills in the areas of writing, reading, listening, speaking, and researching. While a major focus of the course will be on academic writing, students will undertake their studies through a number of “Inquiry Units,” which will provide essential questions for students to frame their work. Students will develop the skills necessary to communicate effectively in writing and speaking. They will also learn how authors of fiction, non-fiction, drama, and speeches craft their works to convey meaning to their audiences. Students will prepare for various college admission tests, as well as the CCSD Capstone Demonstration of Proficiency.

*AP LANGUAGE AND COMPOSITION

Grades: 11, 12
Year: 1 credit
Prerequisite: Completion of English 10 or English 10 Honors; Teacher Recommendation

An advanced level English class, AP Language seeks to focus on students’ writing and analytic skills through both writing and critical thinking. As a means of giving generating topics for writing, a vast array of nonfiction will be explored. This course is for college-bound advanced students. Its objective is to give the student advanced preparation in English for college placement and/or college credit on the basis of the student’s score on the Advanced Placement Exam in English Language. In-class timed essays required. This class fulfills the 11th grade English requirement.

Counseling note: Recommended for highly skilled, college-bound seniors.

*AP LITERATURE AND COMPOSITION

Grades: 12
Year: 1 credit
Prerequisite: Completion of AP Language and Composition, American Literature Honors, American Literature; Teacher Recommendation

This course is for college-bound advanced students. Its objective is to give the student advanced preparation in English for college placement and/or college credit on the basis of his/her scores on the Advanced Placement Exam in English Literature. It is also designed to give students a broad classical literature background and the ability to read, to discuss, and to write analytically about that literature. In-class timed essays required.

COLLEGE PREP ENGLISH 12

Grades: 12
Year: 1 credit
Prerequisite: Completion of American Literature; Teacher recommendation

This is a college preparatory course focusing on the reading and writing skills needed for college success. Through this class, students will improve their reading skills through daily practice and modeling by the teacher, as well as refine their writing skills as they study contemporary critical issues. Through class discussions, reading, and writing, students will sharpen their logical thinking skills, reading fluency and comprehension ability, and grammar, writing style and structure. The course will explore a diverse set of genres, including, writing on film, speculative fiction, multicultural literature, creative writing, and a variety of other voices. Students who register for this class and achieve scores that qualify for the Concurrent Enrollment Literature or Composition Course will be placed in the Concurrent Enrollment class.

ENGLISH 12

Grades: 12
Semester: 1 credit
Prerequisite: Completion of American Literature; Teacher Recommendation

This course provides an intensive focus on the reading and writing skills necessary for post-secondary success by specifically accessing a wide range of texts and genres. Students will improve their writing skills through various composition styles and will receive support on the successful completion of the CCSD Capstone Demonstration of Proficiency, as well as improve reading fluency and comprehension ability.

ENGLISH COMPOSITION 121

Grades: 12
Semester: ½ credit

(CONCURRENT ENROLLMENT WITH COMMUNITY COLLEGE OF AURORA)

Prerequisite: Qualifying scores in English (ACT 18, SATV 470, Accuplacer SS 95 and RC 80) Students may also qualify with a waiver for testing if cumulative GPA is 3.0+ and grade in 11th grade English course is B or better in the spring semester. Students who register for this class but do not achieve a qualifying test score will be placed into a section of non-college-credit bearing College Prep Writing.

A college-level composition class intended to strengthen students’ writing skills in a variety of writing styles required for college-level work. This class emphasizes the planning, writing, and revising of compositions, including the development of critical thinking skills. It includes a minimum of five compositions that stress descriptive, analytical, evaluative, and persuasive/argumentative writing. Upon successful completion of the class, students will be eligible for 3 credits from the Community College of Aurora, which are “guaranteed transfer” to any state-supported college or university.
ENGLISH 10
Prerequisite: Completion of English 9
Grades: 10
Year: 1 credit
This course continues development of students’ language skills. Developmental reading skills are taught and the skills of literary analysis are introduced and/or sharpened through the study of primarily short stories, novels, poetry, non-fiction, and drama. Developmental writing skills are taught, including the essay and syntheses writing. In addition, the course includes introductory preparation for the verbal section of standardized college admissions tests and the CCSD Capstone Demonstration of Proficiency.

*ENGLISH 10 HONORS
Prerequisite: Completion of English 9 or English 9 Honors; Teacher Recommendation
Grades: 10
Year: 1 credit
This course is designed for students who have demonstrated advanced development of language-related skills during 9th grade English. Reading and interpretative skills are enhanced through study of short stories, novels, poetry, non-fiction, and drama. Writing skills are reviewed and expanded, including essays and synthesis writing. In addition, this course includes introductory preparation for the verbal section of standardized college admissions tests, as well as the CCSD Capstone Demonstration of Proficiency.

ENGLISH 9
Prerequisite: Middle School Teacher Recommendation; Testing Data
Grades: 9
Year: 1 credit
This course identifies, reviews, and develops each student’s language skills with a focus on reading skills, study skills, written and verbal language skills, speaking, and listening. Students will study short stories, novels, poetry, nonfiction, and drama while being guided through units of study that focus on student choice and critical thinking.

*ENGLISH 9 HONORS
Prerequisite: Middle School Teacher Recommendation; Testing Data
Grades: 9
Year: 1 credit
This course is designed for students who have demonstrated advanced development of language-related skills during 8th grade English. This course identifies, reviews, and develops each student’s language skills with a focus on reading skills, study skills, written and verbal language skills, speaking, and listening. Students will study short stories, novels, poetry, nonfiction, and drama while being guided through units of study that focus on student choice and critical thinking. This course provides a rigorous course of study for the advanced, highly-motivated student.

Ninth grade students embark on an exploratory odyssey of some of the world’s finest literature. Sophocles, Victor Hugo, William Shakespeare, and Harper Lee are just a few of the authors studied in this introductory course. Strong emphasis is placed on enhancing students’ analytical skills and in improving verbal and written communication. Students focus on improving their overall skills as critical readers, writers, and thinkers.

*IB ENGLISH 12
Prerequisite: Admission into the IB Diploma Program
Grades: 12
Year: 1 credit
This course covers the second half of the IB DP Language & Literature curriculum requirements and is designed to facilitate analysis in works of literature and nonfiction texts. This analysis will be based on each student’s engagement with the works studied rather than published criticisms. Students will be required to reach within themselves to interpret texts using appropriate tools and techniques. Works studied include Leslie Marmon Silko’s Ceremony, The Assault by Harry Mulisch, and James Joyce’s Dubliners, as well as a variety of contemporary works of nonfiction studied in the context of their rhetorical situations.

*IB ENGLISH 11
Prerequisite: Admission into the IB Diploma Program
Grades: 11
Year: 1 credit
This course is a demanding, rigorous exercise in reading and analyzing world masterpieces; it is also entertaining in terms of the lively discussions that ensue. Students will write formal literary analysis. Required texts are sold in the English Resource Center. As translated texts vary, it is important to use the instructor’s selections. There is required summer reading selection prior to the start of the course.

*IB MYP ENGLISH 10
Prerequisite: MYP English 9; Admission to the MYP Program
Grades: 10
Year: 1 credit
Students delve into the literary analysis of important literary works with an emphasis on understanding an author’s stylistic choices and social commentary. Students will build on reading skills to enhance their own thinking to prepare them for independent thinking/criticism during the junior and senior year. Current and universal literary themes will be used for the content of students’ essays.

*IB MYP ENGLISH 9
Prerequisite: Admission to the MYP Program
Grades: 9
Year: 1 credit

INTRODUCTION TO LITERATURE 115
(CONCURRENT ENROLLMENT WITH THE COMMUNITY COLLEGE OF AURORA)
Prerequisite: Qualifying scores in English (ACT 18, SATV 470, Accuplacer SS 95 and RC 80) Students may also qualify with a waiver for testing if cumulative GPA is 3.0+ and grades in 11th grade English course is B or better in the spring semester. Students who register for this class but do not achieve a qualifying test score will be placed into a section of non-college-credit bearing College Prep English 12.

Literature 115 is a college credit-bearing course providing an introduction to literary study including concepts, critical approaches, and language skills. The diverse alternative voices in these short stories, novel, poetry, and drama selections will impel students to think about the complexities of maintaining individuality, building community, and thriving in our contemporary North American culture. The classwork meets all requirements of the CO state standards, so activities include reading, essay and creative writing, presentation, projects, group dynamics, and listening. This is for students who are not ready for the complexity of an AP level course, but are ready for a semester of college-level literature.
OPTIONAL COURSES FOR NON-ENGLISH CREDIT

NOTE: These courses DO NOT fulfill English graduation requirements.

BEGINNING YEARBOOK

Grades: 9, 10, 11
Year: 1 elective credit
Prerequisite: None
Students will study purpose and methods of print graphics as a means of communication. Techniques and applications taught are used in numerous professional careers, including communications, public relations, illustration, graphic design, and journalism. Further, the study of visual communication will enable students to more easily present information when needed for presentations, personal projects, and college and academic portfolios. This course is ideal for artists and students pursuing careers in journalism, mass communications, public relations, graphic design and illustration, and the entertainment industries. This course is a prerequisite for Advanced Yearbook (upon instructor approval). This course will satisfy the IB MYP Design requirement. This course counts for FINE ARTS credit. It does not count toward the necessary four core years of English.

ADVANCED YEARBOOK

Grades: 9, 10, 11, 12
Year: 1 elective credit
Prerequisite: Completion of Beginning Yearbook AND Instructor Approval
This course is designed for students who have completed a year of Beginning Yearbook and wish to continue on to more actively participate in the publishing of the Smoky Hill High School Yearbook. The students in this course are responsible for developing the theme of the yearbook, writing and publishing stories, designing the Student Life, Activities, Sports and Academics sections of the yearbook, and taking photography for the pages. The students will work in Adobe Photoshop and Adobe InDesign. This course counts for FINE ARTS credit. It does not count toward the necessary four core years of English. This course will satisfy the IB MYP Design requirement.

NEWSPAPER 1

Grades: 9, 10, 11, 12
Year: 1 elective credit
Prerequisite: None
The definition of “newspaper” is changing before our eyes to include elements of many mediums: audio, video, and the World Wide Web. The Newspaper 1 class will reflect these. Students will work on the staff of NEXT magazine and SmokyNow.com and will be involved in all aspects of journalism production: reporting, story writing, story editing, video production and editing, photography, layout and design, advertising design and advertising sales. The class will also be useful as a consumer tool for the future, as we all need to be educated consumers of news, both print and online publications. Students will develop writing and reporting skills, but there will also be introductions to the production of newspapers, magazines, and online publications; the history of journalism; journalistic law and ethics; advertising sales and design; public relations, news, feature, sports and opinion writing; editing; interviewing; layout; ad sales. Students are responsible for the financial health of the Smoky Hill News organization through marketing, ad sales, and fundraising. They will participate in discussions about the news-value of the events around them and determine content. The ultimate goal of the course is to produce real-world, publishable work for the Smoky Hill community. All students will publish in both print and online media.
Counseling note: There will be much more work than can be done in a regular class period, so each student enrolled in this course must be willing and able to work occasional weekends and evenings on his/her projects, including a mandatory two-hour minimum on Wednesdays after school. The students must also be motivated to represent the school at all times and have the time to do so. Students who enroll in this class should have an interest in writing and the English language, photography and graphic design. Students interested in pursuing a career in journalism, film-making, online reporting and video production will find this course purposeful; it requires excellent language skills, the ability to accept independent responsibility, and a high level of creativity. This course counts for FINE ARTS credit. It does not count toward the necessary four core years of English.

NEWSPAPER 2

Grades: 10, 11, 12
Year: 1 elective credit
Prerequisite: Newspaper 1
In addition to polishing the skills learned in Newspaper 1, this course will be the next level for multi-year staffers who will learn leadership skills, instruct students in the news gathering, editorial and writing process, give coverage assignments to peers, assist peers with the writing and reporting process, and function as editors of the publications. Editors will be expected to put in extra hours, including lunches and off periods, to ensure their own work is done so that they may help Newspaper 1 students during class and work nights. This course counts for FINE ARTS credit. It does not count toward the necessary four core years of English.

READING ESSENTIALS 1

Grades: 9, 10
Year: 1 elective credit
Prerequisite: Testing, Teacher Recommendation
This course is designed to improve reading comprehension of students. The student will work on developing a repertoire of strategies that will aid and improve the reader’s comprehension, reading rate, test taking, and study skills. Daily activities will consist of explicit instruction of strategies followed by application and practice in authentic reading material. Students will use the STAR Reading Program to assess and track progress.
Counseling note: This course should be emphasized as a reading course to freshmen and sophomores who need additional reading support as measured by standardized testing and in conjunction with teacher/counselor/parent recommendation and other evidence of need.

READING ESSENTIALS 2

Grades: 10-11
Year: 1 elective credit
Prerequisite: Testing, Reading Essentials 1
This course is designed to improve reading comprehension of students. The student will work on developing a repertoire of strategies that will aid and improve the reader’s comprehension, reading rate, test taking, and study skills. Daily activities will consist of explicit instruction of strategies followed by application and practice in authentic reading material. Students will use the STAR Reading Program to assess and track progress.
Counseling note: This course should be emphasized as a reading course to sophomores and juniors who need additional reading support as measured by standardized testing and in conjunction with teacher/counselor/parent recommendation and other evidence of need.

COMPETITIVE SPEECH AND DEBATE

Grades: 9-12
Year: 1 elective credit
This course is designed for students interested in organized public speaking and debate. The purpose of the class is to prepare for interscholastic speech and debate competition. Students will research, write, and present original orations, speak extemporaneously on current events, and perform interpretative literature. Students who take this course will be part of the Smoky Hill Speech and Debate Team. One Saturday competition per semester is required. Students will earn membership in the National Forensic League, the national honor society for competitive speech and debate. This course is highly recommended for students interested in law or business. This course counts for FINE ARTS credit. It does not count toward the necessary four core years of English.
• Combining Foods & Nutrition and Contemporary Relationships fulfills the Health requirement for graduation.
• Pro-Start 1 & 2 requires either Foods & Nutrition and/or Catering as a prerequisite.
CATERING 1 & 2
Prerequisite: None

Catering is an overview of traditional and contemporary banquet menus with an emphasis on quality, quantity, set-up, timing, service, event planning, and execution of large-volume cooking and catering. This course reinforces basic cooking and serving competencies and develops new skills specific to banquet preparation and service. Topics include: contemporary American banquets, classical cuisine banquets, hot and cold buffet stations, special events, various styles of service, psychology of service, guest relations, the sequence of service, and professional standards for dining room personnel. Students practice the skills of controlling inventory, analyzing costs and sales, and operating a complete catering/banquet business under the direction of a faculty member. Lab fee of $25 is required for this course.

CHILD DEVELOPMENT AND PARENTING
Prerequisite: None

This course is designed for both males and females interested in child development and/or careers related to pediatrics, psychology, social services, education, and parenting. Students will learn about the physical, emotional, social, and cognitive development of children from conception through adolescence. Special units of study include: reproduction, prenatal development, birth and infant care, toddler, preschool, school age care, and various family structures. Other units include expectations and financial responsibilities of parenthood. This class will give students an opportunity to experience a parenting simulation with an electronic simulator baby. You will have the opportunity to develop and experience interactive learning activities such as preparing a nutritious snack for children, reading children’s books, and/or creating children’s art. Students are encouraged to participate in FCCLA projects, which include leadership opportunities, community service, and/or competitions related to the class.

CONTEMPORARY RELATIONSHIPS
Prerequisite: None

Students will explore how to create a relationship environment that is "safe" emotionally, socially, and physically. The course emphasizes building healthy relationships, managing personal stress, and making wise choices. Students will learn about commitment and marriage. Topics also include: adolescent relationships with parents and friends, dating, communication skills, conflict resolution, abstinence and human sexuality, gender differences, impact of substances on relationships, violence and abuse, and family/social issues. Students will take psychological and personality tests to assess their; values, beliefs, and perceptions about their relationships with others. Students are encouraged to participate in FCCLA projects, which include leadership opportunities, community service, and/or competitions related to the class.

Note: By completing both Contemporary Relationships and Foods & Nutrition, a student will fulfill the district Health requirements.

FOODS AND NUTRITION
Prerequisite: None

The purpose of the culinary nutrition course is to develop lifelong, healthy individuals with an understanding of healthy and nutritious cooking techniques. Emphasis is placed on implementing healthy nutritional choices, preparing nutrient dense foods, exploring careers related to culinary nutrition, and practicing wise consumer decisions. Completion of both the Foods and Nutrition class and Contemporary Relationships class meets the district Health requirement. Students are encouraged to participate in FCCLA projects, which include leadership opportunities, community service, and/or competitions related to the class.

Note: Lab fee of $25 is required for consumable materials.

PRO-START 1
Prerequisite: Completed ProStart application and passed introduction culinary course (or extensive culinary experience approved by instructor)

In ProStart 1, students will be learning about career opportunities within the restaurant industry. Topics include: communication, professional expectations, safety and sanitation (they will earn their ServSafe certification THAT is recognized by industry), risk management, commercial equipment, culinary math, preparation and cooking methods for proteins, salads and sandwiches, stocks, sauces and soups, pizza, intro to baking, principles of great service, front-of-house basics, and management essentials. Students enrolled in the course also have the opportunity to join the ProStart culinary or management competition team to compete for scholarships in the spring. With successful completion of ProStart 1, students can enroll in ProStart 2 or ProStart 3 (only offered at CCIC).

Note: Lab fee of $50 for the year is required. Optional fees include concurrent enrollment credit (3 credits), chef coat, and competition fees.

PRO-START 2
Prerequisite: Completed ProStart application and passed introduction culinary course (or extensive culinary experience approved by instructor)

In ProStart 2, students continue to learn about, and prepare for career opportunities within the restaurant industry. Topics include: marketing and menu management, preparation of breakfast foods, cooking methods applying to meat, poultry, seafood, grains, and pasta, managing costs and purchasing, operational concerns including sustainability, and an introduction to baking and desserts. Students enrolled in the course also have the opportunity to join the ProStart culinary or management competition team to compete for scholarships in the spring.

Note: Lab fee of $50 for the year is required. Optional fees include concurrent enrollment credit (3 credits), chef coat, and competition fees.
MATH

STANDARD/ADVANCED

Algebra 2 → Trigonometry/Pre-Calculus Honors → Calculus BC → AP Statistics

Geometry → Algebra 2 → College Alg/Trig → AP Statistics

Alg 1 or Alg 1X PLUS Alg Lab Concurrent → Geometry or Geometry Honors → Algebra 2 or Alg 2 PLUS Intermediate Algebra Concurrent → College Alg/Trig Other 4th Year Option

INTERNATIONAL BACCALAUREATE

Algebra 2 → Trig/Pre-Calculus Honors → AP Calculus BC → IB Analysis HL

Geometry → Algebra 2 Honors PLUS Trig/Pre-Calculus Honors → AP Calculus BC

Honors Algebra2/Trigonometry → IB Applications

Algebra 1 → Geometry or Geometry Honors → Algebra 2/Trigonometry → IB Applications SL2
GUIDELINES FOR SELECTING MATHEMATICS COURSES

All students must complete 3 units of mathematics credit and demonstrate proficiency in math in order to graduate from Smoky Hill High School. A student should meet with his/her present mathematics teacher in order to determine which math courses to take. (If student is not currently enrolled in a math course, he/she should check with the last math teacher or with the mathematics coordinator.) An Honors designation indicates a course more rigorous than a regular course. Students who have excellent mathematics ability, are highly motivated, and plan to enter fields in STEM should enroll in Honors designated courses. Students who desire to enter mathematics related areas, or attend a 4 year college, should take 4 units of math including Algebra 2. Most math courses are sequential.

The fundamental purpose of the Algebra 1 – Geometry – Algebra 2 sequence is to formalize and extend the mathematics that students have learned. Because it is built on the Colorado State standards, these are more ambitious versions of the courses than have generally been offered. The critical areas, called units, deepen and extend the understanding of functions and relationships by contrasting them with each other and by applying models to data that exhibit mathematical behavior. Students engage in methods for analyzing, solving, and using functions. The Mathematical Practice Standards apply throughout the sequence, and together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

To meet 2021 Colorado Graduation Requirements, students will take math capstone tests during their high school mathematics coursework. The math capstone will consist of 3 assessments encompassing CCSD Math Priority Standards from Algebra 1, Geometry, and Algebra 2. The math capstone will be assessed in Algebra 2, Algebra 2/Trigonometry, or Algebra 2 Honors. See page 4 for more information on the 2021 graduation requirements including the CCSD capstone.

ALGEBRA 1

Grades: 9, 10, 11

Year: 1 credit

Prerequisite: Completion of Grade 8 Math or Teacher Recommendation

Algebra 1 extends the traditional Algebra 1 course that is a generalization of arithmetic and includes particular focus on linear, exponential, and quadratic functions. Students will manipulate and model with algebraic expressions and equations. Topics include: linear inequalities, systems of equations, arithmetic and geometric sequences, exponential and quadratic models. Students taking this course should be fluent in quadratic functions. Students will manipulate and model with algebraic expressions and equations. Topics include: linear inequalities, systems of equations, arithmetic and geometric sequences, exponential and quadratic models. This course provides a background for further mathematical study as well as for application in technical areas and the sciences.

ALGEBRA 1X

Grades: 9, 10, 11

Year: 1 credit

Prerequisite: Teacher Recommendation and Concurrent with Algebra Math Lab

Algebra 1X is for students entering Algebra 1 who need additional support through the Algebra Lab class. Algebra 1X is not a remedial class and students are expected to master the same learning objectives by the end of the year as students who take Algebra 1 without the additional lab class. Algebra 1X extends the traditional Algebra 1 course that is a generalization of arithmetic, and includes particular focus on linear, exponential, and quadratic functions. Students will manipulate and model with algebraic expressions and equations. Topics include: linear inequalities, systems of equations, arithmetic and geometric sequences, exponential and quadratic models. This course provides a background for further mathematical study as well as for application in technical areas and the sciences.

ALGEBRA MATH LAB (Elective Credit)

Grades: 9

Year: 1 credit

Prerequisite: Teacher Recommendation

Algebra 1X must be taken concurrently with Algebra 1. It is intended as a support that doubles the amount of time a student has with their Algebra 1 teacher. By meeting every day for a full block period, students are given the opportunity to focus on their learning goals with extra time, extended explorations and additional practice. Algebra 1X is not a remedial class and students are expected to master the same learning objectives by the end of the year as students who take Algebra 1 without the additional X class.

ALGEBRA 2

District Capstones will be assessed in this course.

Grades: 9, 10, 11, 12

Year: 1 credit

Prerequisite: Algebra 1 and Geometry with “C” minimum OR Teacher Recommendation

Algebra 2 students study both real and complex numbers, as well as relations, functions, and their operations. Students will work with linear, quadratic, and higher-order polynomial, radical, rational, absolute value, exponential/logarithmic functions, including graphing and transformations of graphs. A graphing calculator is a requirement (TI-83, TI-84 models supported by teacher).

*ALGEBRA 2 HONORS

District Capstones will be assessed in this course.

Grades: 9, 10, 11, 12

Year: 1 credit

Prerequisite: Geometry Honors with “B” or better OR Algebra 1 and Geometry with “A” in both OR Teacher Recommendation

This course is for the student who wants a challenge and is prepared to work in a fast paced course. It covers, in more depth, the topics contained in Algebra 2 (listed above) along with statistics/probability and sequences/series. This course provides a good foundation for those wishing to pursue a career in science, engineering, medicine, or any other math-related fields. A graphing calculator is a requirement and will be used regularly (TI-83, TI-84 models supported by teacher).
MATH DEPARTMENT

*Courses with weighted grades

**AP CALCULUS AB**
Grades: 10, 11, 12
Year: 1 credit
Prerequisite: College Algebra/College Trig (or higher) with a “C” grade or better AND Teacher Recommendation; Successful completion of Grad 2021 math requirement

AP Calculus AB is a college level course in differential and integral calculus which is designed for students who may major in mathematics, science, or a mathematics related field in college. The pace and rigor of instruction will be geared toward preparing students for the AB exam, which is the less comprehensive of the two AP Calculus exams. Teacher recommendation is required. A graphing calculator is a requirement (TI-83, TI-84 models supported by teacher).

**AP CALCULUS BC**
Grades: 10, 11, 12
Year: 1 credit
Prerequisite: Trig/Pre-Calculus or IB Math Applications SL2 with a “B” grade or better, AND Teacher Recommendation; Successful completion of Grad 2021 math requirement

AP Calculus BC is a college level course in differential and integral calculus that is designed for students who will major in mathematics, science, or a mathematics related field in college. The pace and rigor of instruction will be geared for preparing students for the BC exam, which is the more comprehensive of the two AP Calculus exams. This course is a prerequisite for Calculus HL. A graphing calculator is a requirement (TI-83, TI-84 models supported by teacher).

**AP STATISTICS**
Grades: 11, 12
Year: 1 credit
Prerequisite: Concurrent Enrollment College Algebra or higher, B or higher in English class*; Successful completion of Grad 2021 math Requirement; Teacher Recommendation

A college level course designed to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. This course is recommended for students intending to major in business, education, health science, or social science, as well as those considering careers in the math and science fields. Students are exposed to four broad conceptual themes: Exploring Data, Planning a Study, Anticipating Patterns, and Statistical Inference. Students who successfully complete the course and AP examination may receive credit and/or advanced placement for a one-semester introductory college statistics course. Regular access to a graphing calculator with statistics capabilities is expected: standard deviation, correlation coefficient, equation of the least squares linear or regression line and scatter plots graphing. A graphing calculator is a requirement (TI-83, TI-84 models supported by teacher).

**CALCULUS 3 HONORS**
Grades: 11, 12
Year: 1 credit
Prerequisite: AP Calculus BC

This course is a year long course that focuses on multivariable calculus. The course is equivalent to a third semester calculus course in a typical university sequence and can be taken for credit through UCD. Topics covered include extension of AP Calculus BC topics of three dimensions. Most of 2-semester will be dedicated to review and preparation for the IB HL Exam. A graphing calculator is a requirement (TI-83, TI-84 models supported by teacher).

**COLLEGE ALGEBRA/TRIGONOMETRY (CONCURRENT ENROLLMENT WITH COMMUNITY COLLEGE OF AURORA)**
Grades: 11, 12
Year: 1 credit
Prerequisite: Teacher Recommendation AND a qualifying math score (ACT Math=23, SAT Math=550, Next Generation Accuplacer Advanced Algebra and Functions= 245, cumulative GPA=3.0 with B or better in both semesters of Algebra 2 or higher course); Successful completion of Grad 2021 math requirement

This course will cover advanced math topics necessary for college success in non-math related majors. Topics include: equations and inequalities, functions and their graphs, exponential and logarithmic functions, linear and non-linear systems, and a selection of topics from graphing of conic sections, and the theory of equations. This class is a concurrent enrollment class offered through the Community College of Aurora. Students must qualify with one of the criteria listed in the prerequisite section. Upon successful completion of the class, students will be eligible for 7 credits from the Community College of Aurora, which are “guaranteed transfer” to any state-supported college or university. A graphing calculator is a requirement (TI-83, TI-84 models supported by teacher).

**CP ALGEBRA/TRIG**
Grades: 11, 12
Year: 1 credit
Prerequisite: Algebra 2 AND Teacher Recommendation

This course is a review of advanced Algebra 2 topics. Application of Algebra 2 topics are built into the course. Selected topics from College Algebra (sequences and series and graphing rational functions) are also covered. CP Algebra is for students who would like four years of mathematics in high school but are not prepared for Pre-Calculus. Trigonometry topics will also be covered in this course. A graphing calculator is a requirement (TI-83, TI-84 models supported by teacher)
**MATH DEPARTMENT**

*Courses with weighted grades*

**DISCRETE MATH**

Grades: 11, 12  
Year: 1 credit  
Prerequisite: Teacher/Counselor Recommendation; Successful completion of Grad 2021 math requirement

Discrete math will take the mathematical concepts students have learned thus far in their education and look at the real world application of these topics. This course is to take math and make it applicable and accessible for all students. The math knowledge needed is basic mathematics such as addition, subtraction, multiplication, division and problem solving skills. Students will have homework and group work throughout the course but a large part of the students’ grade will be primarily individual projects.

**GEOMETRY**

Grades: 9, 10  
Year: 1 credit  
Prerequisite: Algebra 1 with “C” or better or Teacher Recommendation

Geometry presents a thorough study of ideas and logical reasoning through the use of the axiomatic system. The course will include the topics of plane, solid, and coordinate geometry. Concepts studied will include: lines, planes, angles, triangles, circles, polygons, area, surface area, volume, perimeter, transformations, and right triangle trigonometry. The maintenance of algebraic skills will be emphasized.

**GEOMETRY HONORS**

Grades: 9, 10  
Year: 1 credit  
Prerequisite: Algebra 1 with “A” or Teacher Recommendation and placement exam

Geometry Honors is a course with strong emphasis on logical thinking for the highly motivated mathematics student. In addition to the topics covered in a regular Geometry course, students will study more advanced areas of geometry, which use and apply algebra skills such as factoring and systems of equations. Additionally, rigorous proofs will be included in the curriculum. This course is an MYP course and will include MYP assessments; however, non-IB students are welcome and encouraged. Geometry Honors is recommended for students who have strong algebra skills, desire a challenge, are prepared to work, and who feel they might pursue mathematics related areas in college.

**IB MATH ANALYSIS HL**

Grades: 12  
Year: 1 credit  
Prerequisite: Successful completion of AP Calculus BC or AB with Teacher Recommendation; Successful completion of Grad 2021 math requirement

This course is designed for students in the IB program with excellent mathematical ability. It is also designed for students who will major in mathematics or mathematics related field in college. The calculus concepts and applications of functions and graphs, limits and continuity, differential and integral calculus, and sequences and series will be studied in depth. Additional topics studied include: probability and statistics, vectors and matrices, and further trigonometry. Every student will be required to complete a 9-12 page mathematical investigation as an internal assessment for IB. **A graphing calculator is a requirement (TI-83, TI-84 models supported by teacher).**

**HONORS ALGEBRA 2/TRIGONOMETRY**

Grades: 10, 11  
Year: 1 credit  
Pre-requisites: Geometry; Enrolled in IB

This is the Algebra 2 and Trigonometry course for all students on the IB SL or HL Math Applications pathway. This course is a rigorous course including Algebra 2, Trigonometry, and an introduction to Pre-calculus. Topics include: quadratic, exponential, logarithmic, polynomial, trigonometric, and rational functions and equations as well as 3D geometry and triangular trigonometry. This course is followed by IB Math Applications SL2 or IB Math Applications HL1. Ideal for IB students interested in social sciences, natural sciences, statistics, business, psychology, and design. **A graphing calculator is a requirement (TI-83, TI-84 models supported by teacher).**

**IB MATH APPLICATIONS SL2**

Grades: 11, 12  
Year: 1 credit  
Pre-requisites: Algebra 2/Trig; Enrolled in IB; Successful completion of Grad 2021 math requirement

This course is designed to test IB Math Applications at the SL level, or as the first year of the two year IB Math Applications HL course. This course will cover a review of Algebra 2, Trigonometry, and Pre-calculus topics as well as Calculus, Statistics, Logic, Probability, and Graph Theory topics. This is a course designed for testing at the SL level in IB or continuing on to test HL next year. This course is designed for students who enjoy describing the real world and solving practical problems using mathematics, those who are interested in harnessing the power of technology alongside exploring mathematical models, and enjoy the more practical side of mathematics. A substantial piece of personal research, in the form of a project, is a requirement for this program. Ideal for IB students interested in social sciences, natural sciences, statistics, business, psychology, and design. **A graphing calculator is a requirement (TI-83, TI-84 models supported by teacher).**
IB MATH APPLICATIONS HL1 (New course) Grades: 11 Year: 1 credit
Pre-requisites: Algebra 2/Trig; Enrolled in IB; Successful completion of Grad 2021 math requirement
This is the first year of a two year course. This course will cover Calculus, Statistics, Logic, Probability, and Graph Theory topics. This is a course designed for testing at the HL level in IB. This course is designed for students who enjoy describing the real world and solving practical problems using mathematics, those who are interested in harnessing the power of technology alongside exploring mathematical models, and enjoy the more practical side of mathematics. A substantial piece of personal research, in the form of a project, is a requirement for this program. Ideal for IB students interested in social sciences, natural sciences, statistics, business, psychology, chemistry, biology, biomedical sciences, medicine, and veterinary science. A graphing calculator is a requirement (TI-83, TI-84 models supported by teacher).

IB MATH APPLICATIONS HL2 (New course) Grades: 12 Year: 1 credit
Pre-requisites: IB Math Applications SL/HL Year 2 or Calculus AB; Enrolled in IB; Successful completion of Grad 2021 math requirement
This is the second year of a two year course. This course will cover Calculus, Statistics, Logic, Probability, and Graph Theory topics. This is a course designed for testing at the HL level in IB. This course is designed for students who enjoy describing the real world and solving practical problems using mathematics, those who are interested in harnessing the power of technology alongside exploring mathematical models, and enjoy the more practical side of mathematics. A substantial piece of personal research, in the form of a project, is a requirement for this program. Ideal for IB students interested in social sciences, natural sciences, statistics, business, psychology, chemistry, biology, biomedical sciences, medicine, and veterinary science. A graphing calculator is a requirement (TI-83, TI-84 models supported by teacher).

INTERMEDIATE ALGEBRA Grades: 11, 12 Year: 1 credit
Prerequisite: Teacher Recommendation for Intervention; Concurrent with Algebra 2
This course must be taken concurrently with Algebra 2. This course will provide support to students who are below proficient but will be held accountable for the Algebra 2 and ACT assessments. Students will be provided support for Algebra 2 as well as support for Graduation 2021 requirements. Students will focus on functions and solving equations. A graphing calculator is a requirement (TI-83, TI-84 models supported by teacher).

PROBABILITY AND STATISTICS Grades: 11, 12 Year: 1 credit
Prerequisite: Algebra 2 or higher; C or higher in English Course; Successful completion of Grad 2021 math requirement
This is a college prep course that introduces statistics and probability theory. This course is taught in a project based model to assist students in gaining an appreciation for the diverse applications of statistics and probability and their relevance within our world. Students are exposed to four broad conceptual themes: Exploring Data, Planning a Study, Anticipating Patterns, and Statistical Inference. Students will learn to choose, generate, and properly interpret appropriate descriptive and inferential methods that will require extensive writing components. A graphing calculator is a requirement (TI-83, TI-84 models supported by teacher).

STUDENT MATH TUTOR Grades: 11, 12 Year: 1 credit
Prerequisite: Algebra 2; Application and Teacher Recommendation
This course offers the opportunity for junior and senior students to work one-on-one with small groups of students in the Hill Topper Center/Tutoring Center. The students will help students form tutorials around topics in Algebra 1, Geometry, and Intermediate Algebra. They will work closely with a supervising teacher to gain experience in group facilitation and appropriate mathematical support. There is a potential opportunities to fulfill IB CAS hours.

TRIGONOMETRY/PRECALCULUS HONORS Grades: 10, 11, 12 Year: 1 credit
Prerequisite: Earned a B or higher in Algebra 2 Honors (or concurrent with teacher recommendation) with teacher recommendation OR an A in Algebra 2 with teacher recommendation (and passing capstones on first try) OR teacher recommendation; Successful completion of Grad 2021 requirement.
This is an advanced mathematics course meant for highly capable and motivated students. Students should be prepared to work at a quick pace. A wide range of topics is covered with emphasis on trigonometrics, vectors, limits, and derivatives. The topics that are covered should help students to be successful in a Calculus 2 course. This course is recommended for students interested in careers in such areas as mathematics, science, engineering, and business. A graphing calculator is a requirement (TI-83, TI-84 models supported by teacher).
PERFORMING ARTS

VOCAL MUSIC

Beginning Women’s Choir

Advanced Women’s Choir

Symphonic Choir

Mixed Vocal Jazz Ensemble

IB Music

INSTRUMENTAL MUSIC

Concert Band

Symphonic Band

Jazz Band

Wind

String

Symphony

IB Music

THEATRE

Beginning Acting

Intermediate Acting Theatre

Tech Theatre I

Tech Theatre II

Advanced Acting IB Theatre

Dance

Available for P.E. OR Performing Arts Credit

Dance 1

Dance 2

Dance 3

Dance Company (Yr)
BEGINNING WOMEN’S CHOIR
Grades: 9, 10, 11, 12
Year: 1 credit
Prerequisite: None

Women’s Choir is a choral group designed for 9th, 10th, 11th, and 12th grade women who are beginning to develop their high school singing skills and have a minimum skill level of matching pitch. A wide variety of solo and choral literature will be sung in this choir. There will be a minimum of four performances required during the school year, one at the end of each grading period. This course will satisfy the IB MYP Art requirement.

MEN’S CHOIR
Grades: 9, 10, 11, 12
Year: 1 credit
Prerequisite: None

Men’s Choir is a singing group whose members must have a minimal skill level of matching pitch and a desire to sing and have fun. A wide variety of solo and ensemble will be used. This is a performance oriented group. All male students even remotely interested in singing and fellowship are encouraged to join this class. This choir will perform in concert a minimum of four times during the school year. For most students, this is a two year program course. This course will satisfy the IB MYP Art requirement.

ADVANCED WOMEN’S CHOIR
Grades: 10, 11, 12
Year: 1 credit
Prerequisite: Audition by Instructor

Advanced Women’s Choir is the “Varsity Team” women’s choir of Smoky Hill High School. It is a highly select ensemble of women’s mature voices. Literature of all musical styles will be studied in this dedicated advance, choral singing group through ensemble and solo expressions. An audition will be necessary and students will be required to purchase apparel that the instructor will choose. Members of this varsity team choir will be expected to participate in extra-curricular activities and purchase a $80 uniform. This course will satisfy the IB MYP Art requirement.

SYMPHONIC CHOIR
Grades: 10, 11, 12
Year: 1 credit
Prerequisite: Audition by Instructor

Symphonic Choir is the “Varsity Team” mixed choir of Smoky Hill High School. It is a highly select ensemble of men’s and women’s voices. It is an audition group. Only students who wish to study and perform choral literature at an advanced level should apply for audition. Members are expected to participate in extra-curricular activities and purchase a $100 uniform if they are a member of this group. Some extra-curricular rehearsals are required. This course will satisfy the IB MYP Art requirement.

MIXED VOCAL JAZZ ENSEMBLE
Grades: 10, 11, 12
Year: 1 credit
Prerequisite: Audition by Instructor

The Vocal Jazz Ensembles are a lab extension of a traditional SHHS choir. Students must be enrolled full time in another SHHS choir. Membership to this class is through audition with the instructor. This ensemble is for those students interested in various forms of vocal jazz and contemporary music, as well as developing skills in creativity and improvisation. Members of these choirs will be expected to do extra-curricular activities and provide their own performance attire. This course will satisfy the IB MYP Art requirement.

*IB MUSIC
Grades: 11, 12
Year: 1 credit
Prerequisite: Concurrent Enrollment with Wind Symphony or Symphonic Orchestra or Symphonic Choir

The IB Diploma Program music course provides an appropriate foundation for further study in music at the university level or in music career pathways. It also provides an enriching and valuable course of study for students who may pursue other careers. This course also provides all students with the opportunity to engage in the world of music as lifelong participants. Having followed the music course, students will be expected to demonstrate: 1) knowledge, understanding and perception of music in relation to time, place, and cultures; 2) appropriate musical terminology to describe and reflect their critical understanding of music; 3) comparative analysis of music in relation to time, place, and cultures; 4) creative skills through exploration, control, and development of musical elements; 5) performance skills through group music making; and 6) critical-thinking skills through reflective thought.
CONCERT BAND
Grades: 9, 10, 11, 12  
Year: 1 credit
Prerequisite: Band Instrument Playing Experience

The Concert Band is the entry-level ensemble of the Smoky Hill Band program. Students coming from a middle school band program or who do not wish to audition into an advanced ensemble will enter the SHHS band program in this ensemble. This group will stress technique and sound development as well as music literacy skills. The Concert Band performs at least three public performances and participates in the graduation ceremony. Concerts and performances outside of normal school hours are required and part of the academic grade. Concert wear purchase is required. This course will satisfy the IB MYP Art requirement.

SYMPHONIC BAND
Grades: 9, 10, 11, 12 (mostly 10-12)  
Year: 1 credit
Prerequisite: Audition by Instructor

The Symphonic Band is the “Pre-Varsity Team” of the Smoky Hill Band program. It is an ensemble of mostly 10th-12th grade students selected through an audition process by the director. This group will stress technique and sound development as well as music literacy skills. The Symphonic Band performs at least three public performances and participates in the graduation ceremony. Concerts and performances outside of normal school hours are required and part of the academic grade. Concert wear purchase is required. This course will satisfy the IB MYP Art requirement.

WIND SYMPHONY
Grades: 10, 11, 12  
Year: 1 credit
Prerequisite: Audition by Instructor

The Wind Symphony is the "Varsity Team" of the Smoky Hill Band Program. It is a highly selective ensemble made up of the most advanced band musicians at SHHS. Auditions for acceptance into this ensemble are held in May (for the following school year) and during the first week of school for any seats that become vacant during the summer (due to students moving, schedule conflicts, etc.) Because the Wind Symphony maintains the highest standards and performance levels at SHHS, and is recognized as such, it is a defined instrumentation ensemble. The Wind Symphony performs at least three public performances, participates in the graduation ceremony and other potential state festivals. Concerts and performances outside of normal school hours are required and part of the academic grade. Concert wear purchase is required. This course will satisfy the IB MYP Art requirement.

JAZZ BAND
Grades: 9, 10, 11, 12  
Year: 1 credit
Prerequisite: Audition by Instructor

The Jazz Band is a lab extension of a traditional SHHS band. Students must be enrolled full time in another SHHS band. Membership to this class is through audition with the instructor. This ensemble is for students who are interested in various forms of jazz music as well as developing skills in creativity, improvisation and music theory. A limited number of rhythm section (drums, piano, bass, guitar) and wind section (saxophone, trumpet, and trombone) positions are available. Concerts and public performance outside of normal school hours are required and part of the academic grade. Instructor approval required to register. Concert wear purchase is required. This course will satisfy the IB MYP Art requirement.

STRING ORCHESTRA
Grades: 9, 10, 11, 12  
Year: 1 credit
Prerequisite: Audition by Instructor

String Orchestra is Smoky Hill’s intermediate orchestra aimed at students who have three or more years of string playing experience, and enrollment is decided by auditions held during the spring semester prior to the intended year of enrollment. Freshmen from feeder schools other than Laredo and Horizon are encouraged to contact the director to set up an audition in the spring. Instruction concentrates on string-specific technique, the principles of sound production, higher position work, appropriate musical interpretation based on period history, and performance practice. String Orchestra repertoire focuses on arrangements of major symphonic works and modern styles, and concerts and public performances outside of normal school hours are required and part of the academic grade. This course will satisfy the IB MYP Art requirement.

SYMPHONY ORCHESTRA
Grades: 9, 10, 11, 12  
Year: 1 credit
Prerequisite: Audition by Instructor

Symphony Orchestra is the most advanced orchestra at Smoky Hill and enrollment is decided by auditions held in the spring semester prior to enrollment. Freshmen from feeder schools other than Laredo are encouraged to contact the director to set up an audition in the spring. The minimum requirement includes the ability to play a three-octave scale. Instruction concentrates on the mastery of string-specific technique, sound production, and aims to develop an independent understanding of appropriate musical interpretations based on period history. Students will perform a wide variety of standard orchestral repertoire, including both string orchestra and full orchestra instrumentation. Concerts, public performances, and state performance festivals outside of normal school hours are required and part of the academic grade. Students are strongly encouraged to take private lessons outside of school, and all members must maintain a consistent practice schedule. This ensemble requires a very serious, self-motivated musician. This course will satisfy the IB MYP Art requirement.
**THEATRE**

*Courses with weighted grades*

**ACTING – BEGINNING**

Grades: 9, 10, 11  
Semester: ½ credit  

Prerequisite: None  

Beginning acting for theatre and film! Students learn the art of acting by covering improvisation, audition techniques, scene study, characterization, and a basic history of theatre and film. Students build skills by reading plays and screenplays, memorizing and performing scenes for the class and the camera. **Attending a live theatre performance is a requirement.** This course will satisfy the IB MYP Art requirement.

**ACTING – INTERMEDIATE/*IB THEATRE 1**

Grades: 10, 11, 12  
Year: 1 credit  

Prerequisite: Beginning Acting and/or Instructor Approval  

Experience the life of a traveling production company member! Students build on the art of acting by expanding acting skills on stage and in front of the camera. Scenes from different periods of theatre and film history will be memorized and performed for the class and the camera. Students will produce and perform for the Smoky Hill community. Productions might include: Children’s Theatre, Reader’s Theatre, Puppet Theatre and/or Community Family Theatre. **Performing for outside audiences and attending a live theatre performance are requirements.** This course will satisfy the IB MYP Art requirement.  

*International Baccalaureate (IB) Theatre Arts Year One is taught concurrently.*

**ACTING – ADVANCED/*IB THEATRE 2/DIRECTING**

Grades: 11, 12  
Year: 1 credit  

Prerequisite: Intermediate Acting and/or Instructor Approval  

For students who wish to perform on stage or in film after graduation! This course will help prepare the student for successful entry into post-secondary performing arts programs. Students will compile a professional portfolio, be required to compete in state theatre conferences, and will examine world theatre from a global view, including performance, history, analysis, and criticism. Students will also learn from guest artist and presenters. **Participation in main stage and public productions is a requirement.**  

*International Baccalaureate (IB) Theatre Arts Year Two is taught concurrently.*

**TECHNICAL THEATRE 1**

Grades: 9, 10, 11, 12  
Year: 1 credit  

Prerequisite: None  

Become a techie behind the scenes of theatre and film productions! In this laboratory/workshop class, students will learn to operate the light and sound boards, construct scenery, operate camera equipment, create special effects, design lights and sound for theatre, film, and bands. **Working for 15 hours each semester on live shows after school and/or during the evening is a requirement.** This course will satisfy the IB MYP Art requirement.

**TECHNICAL THEATRE 2**

Grades: 10, 11, 12  
Year: 1 credit  

Prerequisite: Technical Theatre 1  

An extension of the current Technical Theatre 1 course which allows advanced tech students an opportunity to refine skills and work on theatre production activities at an advanced level. Emphasis will be on leading stage crews, production organization and management, the design of scenery, lighting, sound, makeup, costuming, and properties, and business management and publicity. Students will apply their learning by managing production activities in the SHHS Theatre. **A minimum of 30 hours of these activities outside of class time will be required each semester.** This course will satisfy the IB MYP Art requirement.

**HISTORY OF ROCK AND ROLL**

Grades: 9, 10, 11, 12  
Semester: ½ credit  

Prerequisite: None  

History of Rock and Roll is a survey course of the development of rock music from early blues to modern rock music through the 90’s. The course will cover musical styles and rock artists, the impact of rock music on society, and historical perspectives that have helped shape the structure of rock music. No music experience is necessary, but personal interest in studying and listening to rock music of all styles is desired.

**VIDEO PRODUCTION**

Grades: 9, 10, 11, 12  
Semester: ½ credit  

Prerequisite: None  

Direct your own film! Fundamentals of video and film production will be covered in this class, including directing, cinematography, and post-production. Emphasizing a hands-on production experience, students will write, shoot, and edit original film content using digital video. **Students will be required to use their own phone or video camera for this course.** Movies, television programs, music videos, and video blogs will be viewed and analyzed to develop techniques in visual storytelling, camera work, lighting, and editing.
## DANCE

*Courses with weighted grades*

**NOTE:** Dance can be applied toward graduation credit in Physical Education or Fine Arts.

### DANCE 1

**Prerequisite:** None  
**Grades:** 9, 10, 11, 12  
**Semester:** ½ credit

This class provides the student who has little or no jazz or modern dance experience the opportunity to learn fundamental techniques of movement and rhythm. The student will also develop a knowledge of dance styles, history, terminology, and aesthetics. This course will satisfy the IB MYP Art requirement.

### DANCE 2

**Prerequisite:** Dance 1 OR Equivalent Experience  
**Grades:** 9, 10, 11, 12  
**Semester:** ½ credit

This class provides the students who have completed Dance 1 the opportunity to learn more challenging jazz and modern dance techniques. Students will also learn to critically analyze dance movement and composition. This course will satisfy the IB MYP Art requirement. *Performance is required.*

### DANCE 3

**Prerequisite:** Teacher Recommendation OR Dance 1 And Two Semesters of Dance 2  
**Grades:** 9, 10, 11, 12  
**Semester:** ½ credit

This class provides the advanced student the opportunity to learn more challenging jazz and modern dance technique. Students will also learn to critically analyze dance movement and composition. This course will satisfy the IB MYP Art requirement. *Performance is required.*

### DANCE COMPANY

**Prerequisite:** Audition  
**Grades:** 9, 10, 11, 12  
**Year:** 1 credit

In this class, students will develop their performance skills, demonstrate the works of novice choreographers, and explore varied repertory. This class is for advanced students who are accepted by auditions only. Students in this class will represent Smoky Hill on tour and in school performances. This course will satisfy the IB MYP Art requirement. *Performance is required.*
These semester courses will be taken by **ALL 9th grade students**. Students will receive .5 PE credit and .5 Health credit.

### 9TH GRADE ONLY

- PE 9th Grade (Semester)
- Health 9th Grade (Semester)

### 9TH-12TH GRADE

- Health
- Personal Fitness
- Individual Sports
- Yoga
- Team Sports
- Team Sports 2
- General Swimming
- Lifeguard Training (10-12)
- Weight Training
- Weight Training for Women
- Weight Training & Personal Fitness
- Sports Training (Year)
- 9TH GRADE ONLY
- 9TH-12TH GRADE
- Available for P.E. OR Performing Arts Credit
- Dance 1
- Dance 2
- Dance 3
- Dance Company (Year)
PHYSICAL AND HEALTH EDUCATION DEPARTMENT

GUIDELINES FOR SELECTING PHYSICAL AND HEALTH EDUCATION CLASSES

All students are required to have the equivalent of three semesters of physical education to meet graduation requirements.

All students are required to have one semester of Health to meet graduation requirements.

DANCE 1
Grades: 9, 10, 11, 12
Semester: ½ credit
Prerequisite: None

This class provides the student, who has little or no jazz or modern dance experience, the opportunity to learn fundamental techniques of movement and rhythm. The student will also develop a knowledge of dance styles, history, terminology, and aesthetics. This course will satisfy the IB MYP Art requirement.

DANCE 2
Grades: 9, 10, 11, 12
Semester: ½ credit
Prerequisite: Dance 1 OR Equivalent Experience

This class provides the students who have completed Dance 1 the opportunity to learn more challenging jazz and modern dance techniques. Students will also learn to critically analyze dance movement and composition. This course will satisfy the IB MYP Art requirement. *Performance is required.

DANCE 3
Grades: 9, 10, 11, 12
Semester: ½ credit
Prerequisite: Teacher Recommendation OR Dance 1 And Two semesters of Dance 2

This class provides the advanced beginning student the opportunity to learn more challenging jazz and modern dance technique. Students will also learn to critically analyze dance movement and composition. This course will satisfy the IB MYP Art requirement. *Performance is required.

DANCE COMPANY
Grades: 9, 10, 11, 12
Year: 1 credit
Prerequisite: Audition

In this class, students will develop their performance skills, demonstrate the works of novice choreographers, and explore varied repertory. This class is for advanced students who are accepted by auditions only. Students in this class will represent Smoky Hill on tour and in school performances. This course will satisfy the IB MYP Art requirement. *Performance is required.

GENERAL SWIM
Grades: 9, 10, 11, 12
Semester: ½ credit
Prerequisite: None

This course is for students to improve swimming technique. All skill levels are welcome. We will cover basic swim strokes, water aerobics, and Water Polo.

HEALTH
Grades: 9, 10, 11, 12
Semester: ½ credit
Prerequisite: None

This course gathers and uses health information to promote attitudes and behavior patterns that enhance optimal physical, mental, and social well-being. It is designed to meet the district proficiency, teaching students the values of health and first aid. There will be discussions on mental health, human relationships, diseases and disorders, nutrition, drugs, smoking, alcohol, physical fitness, first aid and CPR. Health will offer the student the opportunity to acquire the necessary skills and knowledge for self-directed life-long learning toward the goal of being a responsible, productive, and healthy citizen.

Note: This course is required for graduation.

HEALTH 9TH GRADE
Grades: 9
Year: 1/2 credit
Prerequisite: None

This course empowers students to make healthy decisions and value lifelong wellness. Health topics covered promote attitudes and behavior patterns that include mental health, human relationships, diseases and disorders, nutrition, drugs, sexuality, and smoking and alcohol. This course will satisfy the IB MYP Health requirement.

INDIVIDUAL SPORTS
Grades: 9, 10, 11, 12
Semester: ½ credit
Prerequisite: None

This course is designed to expose students to a variety of individual/dual sports as well as recreational sports/activities. Students will learn fundamental techniques, rules, care of equipment, scoring, and team play. Class competition will be an integral part of the course.

LIFEGUARD TRAINING
Grades: 10 (if 15 or older), 11, 12
Semester: ½ credit
Prerequisites: Minimum age of 15, swim 300 yards continuously, tread water for 2 minutes using only your legs, surface dive to a depth of 7-10 ft to retrieve a 10 pound object, and exit water without using a ladder or steps.

This course provides entry-level participants the knowledge and skills to prevent, recognize, and respond to aquatic emergencies and to provide care for breathing and cardiac emergencies, injuries, and sudden illness until EMS personnel take over. Part of the class will be taught in the pool and in a classroom setting. By the end of the class, you will be Lifeguard certified to work over your summer break. Prerequisites will be tested on the first day of class.
# PHYSICAL AND HEALTH EDUCATION DEPARTMENT

**PE 9TH GRADE**

Grades: 9  
Year: ½ credit  
Prerequisite: None  

This course empowers students to become fit and value lifelong wellness. Through the concepts of holistic learning, intercultural awareness, and communication, students will gain a deeper appreciation for movement, physical activity, and over all well-being and apply it to their lives. This course will satisfy the IB MYP PE Requirement.

**PERSONAL FITNESS**

Grades: 9, 10, 11, 12  
Semester: ½ credit  
Prerequisite: None  

Students will apply the health-related components in physical education to achieve and maintain physical fitness with an emphasis on life-long wellness. The five components of fitness (cardiovascular, fitness, flexibility, muscular strength, muscular endurance, and body composition) will be taught toward achieving proficiency. This course will introduce the student to a wellness lifestyle through traditional and non-traditional sports/games, physical conditioning, FitnessGram testing, weight training, Tabata circuit training, and other individual, small group, and large group activities.

**SPORTS TRAINING**

Grades: 9, 10, 11, 12  
Year: 1 credit  
Prerequisite: Member of Athletic Team at SHHS AND Coach Recommendation  

This course is designed for the interscholastic athlete who wants to excel at the highest level. To be enrolled in this course, you must be a member of an athletic team at Smoky Hill High School and must be recommended by your coach. The weight training portion of the class is divided into two basic segments: core lifts and auxiliary lifts. The basic core lifts are the squat, power clean, bench press, and deadlift. Included in this program is a complete speed, plyometric, agility, and flexibility program. **FEE: $15.00**

**TEAM SPORTS**

Grades: 9, 10, 11, 12  
Semester: ½ credit  
Prerequisite: None  

This course is designed to expose students to the physical skills, strategies, and rules of Floor Hockey and Soccer along with other team sports. These games can be enjoyed by both unskilled and adept athletes, male or female. Students will also be exposed to team play, offensive and defensive strategies, as well as opportunities for action, excitement, and friendly class competition.

**TEAM SPORTS 2**

Grades: 9, 10, 11, 12  
Semester: ½ credit  
Prerequisite: None  

This course is designed to expose students to the physical skills, strategies, and rules of Flag Football and Basketball along with other team sports. These games utilize ball handling skills and movement skills and are ideal for a co-ed activity. Students will be exposed to team play, offensive and defensive strategies, as well as opportunities for action, excitement, and friendly class competition.

**WEIGHT TRAINING**

Grades: 9, 10, 11, 12  
Semester: ½ credit  
Prerequisite: None  

This course is designed to teach basic lifting techniques and to give a comprehensive background in anatomy, physiology, kinesiology, nutrition, and cardiovascular research. Exposure to muscle toning, body-building, power and strength development will enable students to choose their own course of personal development. **FEE: $10**

**WEIGHT TRAINING AND PERSONAL FITNESS**

Grades: 9, 10, 11, 12  
Semester: ½ credit  
Prerequisite: Weight Training Recommended  

This course is designed to teach basic lifting techniques and will incorporate a comprehensive background in the five components of fitness (cardiovascular fitness, flexibility, muscular strength, muscular endurance, and body composition). Students will gain knowledge and experience with a variety of different approaches to physical fitness. **FEE: $10**

**WEIGHT TRAINING FOR WOMEN**

Grades: 9, 10, 11, 12  
Semester: ½ credit  
Prerequisite: None  

This course is designed specifically for the fitness needs of women. Specific exercises will be performed that address the female physiology. A safe environment will be provided to allow women to experience success with a weight training program and utilizing proven strategies and techniques. **FEE: $10**

**YOGA**

Grades: 9, 10, 11, 12  
Semester: ½ credit  
Prerequisite: None  

This course is designed as an introduction to the principles and practice of Yoga, an ancient tradition that is both physical and mental. Students participate in vinasana flows design to improve strength, flexibility, and mental focus.
GUIDELINES FOR SELECTING SCIENCE COURSES
The Science Department recommends the following:
• If you are college bound as a science and/or mathematics major, 4-5 years of science (including 1 year of physics).
• If you are college bound but not as a science or math major, 3-4 years of science (including 1 year of physics).
• Three (3) years of science are required for graduation. A typical path for post-secondary is Earth/Physical Science, Biology/Biology Honors, Chemistry/Chemistry Honors, and Physics/Physics Honors.

Note: For any science class with a math class prerequisite, a math skills assessment can be taken to override the math course placement. Contact the Science Department Coordinator to schedule a testing appointment.

*ANATOMY AND PHYSIOLOGY HONORS Grades: 11, 12 Year: 1 credit
Prerequisite: Two years of lab science with a “C” (including Chemistry) OR Concurrent Enrollment in Chemistry

Anatomy and Physiology is designed for students with an interest in the human body and/or medical sciences. This course starts with a basic overview of cells and their components, as well as a review of the chemistry necessary to properly understand how cells and parts of the human body function. Students will study the organ systems in great depth, including structure, shape, function, and relationship to other systems. This course involves projects, lecture, lab work, and dissection.

*AP BIOLOGY Grades: 10, 11, 12 Year: 1 credit
Prerequisite: Completion of Honors Chemistry with a grade of “B” or higher. In addition to the math skills embedded in the Honors Chemistry course, students are expected to have a MASTERY of exponential functions and solving simple complex algebraic equations.

AP Biology is designed to be the equivalent of a college introductory Biology course. The curriculum for this class is the College Board Advanced Placement Biology Curriculum. Units of study will 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.

*AP CHEMISTRY Grades: 10, 11, 12 Year: 1 credit
Prerequisite: Completion of Chemistry Honors AND Algebra 2 with “B” or higher. Concurrent enrollment in Pre-Calculus is recommended.

AP Chemistry is designed to be the equivalent of a college introductory Chemistry course. The curriculum for this class is the College Board Advanced Placement Chemistry Curriculum. Units of study will 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.

*AP PHYSICS 1 Grades: 11, 12 Year: 1 credit
Prerequisite: Completion of Biology and Chemistry and a math PSAT score of at least 500; concurrent enrollment in at least Pre-Calculus or the equivalent is recommended.

AP Physics 1 is designed to be the equivalent of a first semester college course in algebra-based physics. The curriculum for this class is the College Board Advanced Placement Physics 1 curriculum, including kinematics, dynamics, circular motion and gravitation, energy, momentum, simple harmonic motion, torque and rotational motion, electricity, circuits, and mechanical waves and sound. This course differs significantly from a high school course with respect to the laboratory work done and the time and effort required of the student outside of class. The expectation is that the student will take the AP exam at the end of the course.

*AP PHYSICS C (MECHANICS) Grades: 11, 12 Year: 1 credit
Prerequisite: Completion of Honors Physics/IB Physics 1 AND concurrent enrollment in or completion of AP Calculus AB or BC OR Instructor Approval. Students who have completed Calculus BC as a junior need to meet with the instructor before enrolling in AP Physics C as a first course in physics.

AP Physics C (Mechanics) is designed to be the equivalent of a college introductory Physics course on mechanics. The curriculum for this class is the College Board Advanced Placement Physics Curriculum. Units of study will include: kinematics, Newton’s law of motion, work, energy, power, systems of particles, linear momentum, circular motion and rotation, oscillations, and gravitation. This course differs significantly from a high school course with respect to the laboratory work done and the time and effort of the students outside of class. The expectation is that students take the AP exam at the end of this course.

ASTRONOMY Grades: 11, 12 Semester: ½ credit
Prerequisite: Completion of two years of lab science and Algebra 1. Exceptions require Instructor Approval.

This course focuses on the modern science of astronomy and cosmology. The process of scientific study provides the foundation of this course. Students will study the relationship of the Earth with our solar system, our galaxy and the universe. Some topics include planets, stars, black holes, quasars, stellar evolution and other solar phenomena.
BIOLOGY  
Grades: 10, 11, 12  
Year: 1 credit  
Prerequisite: Successful completion of 1 year of lab science  
In this class, students will explore relationships between structure and function in organisms, and the interaction of cells and organisms with each other and their environments. Units of study will include: ecology, chemistry of life, cellular structure and function, genetics, evolution, classification, and human systems. Laboratory activities reinforce concepts and principles presented.

*BIOLOGY HONORS  
Grades: 9, 10, 11, 12  
Year: 1 credit  
Prerequisite: Enrollment in Geometry or higher OR enrollment in Algebra 1 and the MYP Program for 9th graders. All other grade levels must successfully complete Physical Science and Algebra 1.  
In this class, students will explore relationships between structure and function in organisms and the interaction of cells and organisms with each other and their environments. Units of study will include: ecology, chemistry of life, cellular structure and function, genetics, evolution, classification, and human systems. 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.

CHEMISTRY  
Grades: 10, 11, 12  
Year: 1 credit  
Prerequisite: Completion of Algebra 1 with grade of C or better AND at least 1 year of a lab science. Concurrent enrollment in Algebra II recommended. Exceptions require Instructor Approval. Students are expected to have COMPETENCE in basic calculator skills, order of operations, solving simple algebraic equations, fractions/decimals/percent, graphing and data tables.  
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, molecular geometry, and thermodynamics, kinetics, and acid/base chemistry. Laboratory activities reinforce concepts and principles presented in this course.

*CHEMISTRY HONORS  
Grades: 10, 11, 12  
Year: 1 credit  
Prerequisite: Concurrent enrollment in Geometry Honors or higher. Students are expected to have MASTERY/FLUENCY in basic calculator skills, order of operations, solving simple algebraic equations, fractions/decimals/percent, graphing and data tables. Also, should have COMPETENCE in log and antilog functions.  
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, molecular geometry, and thermodynamics, kinetics, and acid/base chemistry. Laboratory activities reinforce concepts and principles presented in this course. This course covers the same topics as the regular Chemistry program, but in a greater depth and at an accelerated rate.

ENVIRONMENTAL CHEMISTRY  
Grades: 11, 12  
Year: ½ credit  
Prerequisite: Successful completion of 2 years of lab science.  
Environmental Chemistry is a hands-on lab-based, semester science course that utilizes chemistry concepts in studying the environment. The course will focus on integrating environmental topics and current events with practical experiences. Major topics covered include air, land and water environmental chemistry. In addition, the course covers basic chemistry topics such as the atom, balancing equations, types of reactions, bonds, and nuclear energy.

ENVIRONMENTAL SCIENCE  
Grades: 12  
Year: 1 credit  
Prerequisite: Completion of 2 years of lab science  
This course focuses on issues in Environmental Science such as population growth natural resources, biodiversity, agriculture, mining, water, global climate change, ocean health and pollution. These topics are explored through a series of hands-on activities and labs that focus on real-world skills with a focus on careers and technology in the field. The course also includes a strong service learning component as the students run, maintains, and improve the school wide recycling program at Smoky Hill.

*IB CHEMISTRY SL  
Grades: 11, 12  
Year: 1 credit  
Prerequisite: Completion of Algebra 2 AND Chemistry Honors. Students are expected to have MASTERY/FLUENCY of all math skills embedded in Honors Chemistry.  
IB (Standard Level) Chemistry may be taken as a Standard Level Group 4 course or as the sixth area course.

*IB ENVIRONMENTAL SYSTEMS AND SOCIETIES  
Grades: 11, 12  
Year: 1 credit  
Prerequisite: Completion of Chemistry or Chemistry Honors. Students are expected to have a MASTERY/FLUENCY of basic calculator skills, graphing, data tables, percent, and probability.  
IB Environmental Systems and Societies is a trans-disciplinary course that provides a coherent perspective of the interrelationships between environmental systems and societies, allowing students to evaluate the scientific, ethical, and socio-political aspects of environmental issues. Students will take the IB Exam.

*IB PHYSICS 2  
Grades: 12  
Year: 1 credit  
Prerequisite: Enrollment in the IB Diploma Program. Successful completion of Honors Physics and IB Pre-Calculus or higher.  
This is a continuation of IB Physics 1. Topics expand on earlier ones and add relative wave optics and quantum concepts. Most students test HL after two years of study. Students must take both years to test SL. This class can help prepare for the AP Physics B (Algebra-Trig based) exam with a little extra study on two topics.
SCIENCE DEPARTMENT
*Courses with weighted grades

LABORATORY TECHNICAL ASSISTANT
Prerequisite: Department Coordinator Approval ONLY

This course is designed to give the student a basic understanding of the maintenance and operation of a science laboratory and may also include the chemistry prep room, animal room, and/or greenhouse. Students will acquire skills, which they must demonstrate, in the preparation of laboratory materials and will assist in classroom activities. Students are selected based on prior achievement, maturity, and sense of responsibility.

PHYSICAL SCIENCE
Grades: 9, 10
Year: 1 credit
Prerequisite: Concurrent enrollment in Algebra 1 or Geometry.

EPS is a full-year course designed to provide the student with a solid foundation in scientific problem solving in physics and earth science concepts. Students will study motion, forces, energy and waves through a series of scientific investigations. The course utilizes digital data collection and processing tools. The course is very closely aligned with the skills taught in the Algebra I curriculum in the SHHS math department. Earth Science topics are used as a means to give additional context to the math-based physics problem solving.

PHYSICS
Grades: 11, 12
Year: 1 credit
Prerequisite: Grade of C or better in previous science and math courses. Concurrent enrollment in Algebra 2 or higher. Students are expected to have a COMPETENCE with solving simple algebraic equations, right triangle trigonometry, graphing, data tables, calculator skills, fractions/decimals/percent and factor labeling.

This course helps students understand the physical laws of our world through a project-based curriculum. Units of study include: forces, motion, energy, light, waves, electricity, and magnetism. Laboratory work serves to promote understanding and to illustrate the experimental nature of physics.
SOCIAL STUDIES

STANDARD/ADVANCED

9th-12th | 10th-12th | 11th-12th | 12th

Global Studies
American Government/Economics
AP Human Geography
AP Government
US History
CE US History
American Government
AP US History

Psychology
CE US History
Colorado History
Economics
Sociology
World Religions
You and the Law
Criminal Justice
Chicano Studies
Africana Studies

AP European History
AP Government
AP Psychology
AP US History

INTERNATIONAL BACCALAUREATE

9th-12th | 10th-12th | 11th-12th | 12th

IB MYP World Geography & IB MYP Government
IB MYP US/American History

IB History of the European Region
IB History of the Americas
IB Psychology SL

IB History of the Contemporary World

IB Psychology HL
GUIDELINES FOR SELECTING SOCIAL STUDIES COURSES
All students must earn 3 units of Social Studies in order to graduate from Smoky Hill High School. Students are encouraged to balance their Social Studies courses between history and social science courses.

One of the 3 units of Social Studies credit must be in US History. Students may receive the credit by taking either US History or AP US History for 11th/12th grade with instructor approval.

One half credit of Social Studies must be in government. Students may receive this credit by taking American Government, AP American Government (full year), MYP World Geography/Government, or American Government Online.

Ninth grade students must take a full year of Social Studies. A student may take Global Studies or AP Human Geography (only recommended students that intend to elect AP courses for the next three years).

Tenth grade students must take American Government and Economics unless they have been approved for AP courses.

AFRICANA STUDIES
(CONCURRENT ENROLLMENT WITH METRO STATE UNIVERSITY)
Prerequisite: None
Grades: 11, 12
Semester: ½ credit

This introductory course in Africana Studies examines the evolution of Africana Studies and surveys the history and culture of the African Diaspora. It pays particular attention to the African American experience and examines the relationship between the past and present in shaping a Black worldview and its contributions to the human experience.

AMERICAN GOVERNMENT
Prerequisite: None
Grades: 10, 11, 12
Semester: ½ credit

American Government is required for graduation. This course is designed to help students understand the purposes of government and the basic constitutional principles of the US republican form of government. Students will study the federal structure in the US and analyze local, state, and federal government roles. Students will learn about the rights and responsibilities of citizens and investigate the broad range of civic participation in our society. There will be an examination of the US role in the world and the conduct of foreign policy. The course will familiarize students with contemporary issues that face the US and encourage them to articulate public policy positions.

*AP EUROPEAN HISTORY
Prerequisite: Teacher Recommendation; Instructor Approval
Grades: 12
Year: 1 credit

The AP Program in European History is designed to provide qualified and highly motivated students with the opportunity to experience a college-level survey course and to prepare for the AP exam. The course will include extensive factual coverage of major events and trends in European history from approximately 1450 AD through 2000 AD. Readings in a wide variety of primary and secondary sources will also prepare the student to critically analyze historical evidence. Emphasis will be placed on intellectual, cultural, and social history as well as more traditional political-diplomatic subjects.

*AP HUMAN GEOGRAPHY
Prerequisite: Teacher Recommendation; Instructor Approval
Grades: 9, 10, 11
Year: 1 credit

The AP/IB (SL) Human Geography course introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Contemporary issues such as urbanization, population, migration, economic development, ethnic conflict, human responses to natural hazards, and environmental quality are becoming increasingly important. These and other related themes will be examined from local, regional, and global perspectives. Students will use spatial concepts, computer simulations, field experiences, and landscape analysis to better understand human social organization and its environmental consequences.

*AP PSYCHOLOGY
Prerequisite: Teacher Recommendation; Instructor Approval
Grades: 12
Year: 1 credit

The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the methods psychologists use in their science and practice. All students are encouraged to culminate their experience by taking the AP examination. Successful completion of this exam (with a score of 3 or higher) may result in earned college credit.
SOCIAL STUDIES DEPARTMENT

*Courses with weighted grades

*AP US GOVERNMENT/POLITICS
Prerequisite: Teacher Recommendation; Instructor Approval
Grades: 10, 11, 12
Year: 1 credit

The AP course in government is designed to provide qualified and highly motivated students with the opportunity to experience a college level survey course to prepare for the US Government AP exam. The goals of this course are to increase understanding of the American political system, its framework, traditions, and values. The course will be concerned with the nature of the American political system, its development over the past two hundred years, and how it continues to function in recent times. Emphasis will be placed on a detailed study of the principle processes and institutions through which the political system functions, as well as some of the public policies which these institutions implement.

Note: This class will meet the state required US Government course for students who complete the year long course.
Counseling Note: This course will have a summer assignment.

*AP US HISTORY
Prerequisite: Teacher Recommendation; Instructor Approval
Grades: 11, 12
Year: 1 credit

This course examines the major political, social, cultural, diplomatic, military, intellectual, and economic developments in American history from the first inhabitants of the Americas to the recent past. The aim of this survey is to provide an understanding of the events, forces, developments, groups, and individuals that have shaped American history from indigenous civilizations to the contemporary period. A principle focus of this course is on developing, practicing, and strengthening the skills historians use to construct knowledge in this discipline. The AP Program in American History is designed to provide motivated students with the factual knowledge and skills necessary to comprehend the content offered in a lower division American history survey. Accordingly, this college level course focuses on chronological periods, continuity and change, cause and effect, relationships, and critical and thematic understanding. An AP exam, which is optional, will be administered at the end of the course providing students with the opportunity to obtain college credit and/or advanced placement.

CHICANO STUDIES
(Concurrent Enrollment with Metro State University)
Prerequisite: None
Grades: 11, 12
Semester: ½ credit

This course introduces students to the broad range of the interdisciplinary field of Chicana/Chicano studies. The course covers major historical moments beginning with an overview of pre-Columbian civilizations in the Americas and Medieval Spain, which have led to the contemporary social location of Mexican-origin population within the United States. In addition, the course introduces students to the broad scope of Chicana/Chicano cultural production in the creative arts such as visual, film, music, and literature. Resources draw from various disciplines including but not limited to: sociology, history, political science, anthropology, education, art and art history, women and gender studies, and religious studies.

COLORADO HISTORY
Prerequisite: None
Grades: 11, 12
Semester: ½ credit

Colorado History is a comprehensive study of the state of Colorado. This course is designed to fit the academic needs and backgrounds of students with a variety of learning styles. Resources such as books, readings, maps, films, the Internet, and the library will be used as a primary source. A variety of site outside the classroom are available for students to use in their study of Colorado history. Students will gain insights into the diversity and continual development of Colorado, realizing their relationship to Colorado history.

ECONOMICS
Prerequisite: None
Grades: 10, 11, 12
Semester: ½ credit

Economics is offered to students who wish to broaden their social studies background by developing economic literacy. It provides an excellent foundation for future economics courses in college. It is also useful for anyone who might want to pursue a business or financial career. The course stresses the fundamental concepts of economics (scarcity, choice, cost) and examines the real world through those lenses. There is a broad analysis of the free enterprise system and the forces which govern it as well as a closer examination of topics such as wealth and poverty, money, banking, government stabilization policies, international trade, and environmentalism. Students also participate in a ten week stock market game simulation to learn the fundamentals of investing.

GLOBAL STUDIES
Prerequisite: None
Grades: 9
Year: 1 credit

This course is designed to expose students to both world geography themes and historical events and themes in the world’s history. The course is year long and units are designed to complement both content areas. The course will cover the skills that are necessary for students to deepen their understanding of geography and world history, as well as improve their reading, writing, and critical thinking skills. Themes to be covered include but are not limited to: thinking like a geographer, thinking like a historian, river valley and river civilizations, population and development, emerging civilizations and empires, imperialism and conflict, expansion and interaction of economic systems and urban geography.
SOCIAL STUDIES DEPARTMENT

*IB CONTEMPORARY WORLD
Prerequisite: IB Diploma Programme
Grades: 12
Year: 1 credit

This is the culmination of the IB’s two-year history course, merging IB European History and IB History of the Americas courses. Starting with the aftermath of the First World War and an examination of the political spectrum, students turn to Fascist single party states in Europe and the Americas including Mussolini’s Italy, the National Socialist takeover of Germany’s Weimar Republic, and Pinochet’s Chile. The focus then moves to Asia to examine Japan, particularly the militarism of the 1930s, and then to the causes and conduct of World War II. The Cold War is a particular focus of second semester with special emphasis on US-Soviet interactions and their impact on the contemporary world, including Castro and the Cuban Missile Crisis and the Vietnam War. An in-depth study of recent Chinese history and the Communist Revolution of 1949 will complete our study. Students complete a lengthy research paper on a Cold War topic and participate in a class seminar on these topics. Much attention is given to critically analyzing documentary evidence throughout the year long course.

*IB EUROPEAN HISTORY
Prerequisite: IB Diploma Programme; IB MYP American History
Grades: 11
Year: 1 credit

The IB course in European History is designed to provide qualified and highly motivated students with the opportunity to excel in a college level survey course and to prepare for the second year of the program will include the HL IB exams and writing. The course will include extensive factual coverage of major events and trends in European history from approximately 1450 through Stalin in WWII. Readings in a wide variety of primary and secondary sources will also prepare the student to critically analyze historical evidence. Emphasis will be placed on intellectual and political-diplomatic subjects as well as more traditional cultural and social history.

*IB HISTORY OF THE AMERICAS
Prerequisite: IB Diploma Programme, IB MYP World History
Grades: 11
Year: 1 credit

IB History of the Americas is a course that provides the students an opportunity to focus on political, social, economic, religious, technological, and cultural events in North, Central and South American history. The timeline for the course is from Imperialism through Cold War. Readings in a wide variety of primary and secondary sources will also prepare students to critically analyze historical evidence. This course will also give IB students a chance to undertake a college level survey course and to prepare them for the second year of the IB program that will include the HL IB exam and writing.

*IB PSYCHOLOGY HL
Prerequisite: IB Psychology SL OR AP Psychology (with Instructor Approval)
Grades: 12
Year: 1 credit

The second year of IB Psychology is designed to fulfill the requirements for either the Higher Level or Standard Level Group 6 elective of the International Baccalaureate Program. Students will go deeper in the study of psychological theory focusing on the following topics: biology, cognitive, social psychology, sports psychology, developmental psychology, and abnormal psychology. As their Internal Assessment, students will replicate a simple experiment of their choice.

*IB PSYCHOLOGY SL
Prerequisite: IB Diploma Programme OR Instructor Approval
Grades: 11, 12
Year: 1 credit

The first year of IB Psychology will use the Advanced Placement Psychology curriculum as a foundation for the study of psychological theory. Topics include: research methods, neuropsychological, sensation/perception, states of consciousness, learning, memory and Personality. In addition, sub-topics include: Developmental, Social and Abnormal Psychology. Students are strongly encouraged to take the AP Psychology exam in May.

*IB MYP AMERICAN HISTORY
Prerequisite: Enrollment in MYP
Grades: 10
Year: 1 credit

An intensive year-long study of American History, this class’ focus is to provide the student with a chronological and thematic foundation for the nation’s past. The development of American foreign and domestic policies is examined as well as cultural trends. The student is responsible for reading a college level text, as well as frequent writing assignments. Supplementary works include various primary sources (ie documents) and scholarly readings. The primary goals of this class are to prepare the students for the IB program, IB exams, and the optional AP American History examination.

*IB MYP WORLD GEOGRAPHY
Prerequisite: Enrollment in MYP
Grades: 9
Semester: 1/2 credit

This course will provide students the opportunity to study world geography through the thematic approach while using a variety of perspectives. The course will focus on a worldwide study of the Earth’s people and their interaction with their environment. Topics to be explored include globalization, resources, population, politics and global cooperation. The course is a required component of IB MYP.

*IB MYP GOVERNMENT
Prerequisite: Enrollment in MYP
Grades: 9
Semester: 1/2 credit

This course will provide the opportunity for students to study government institutions and political processes and examine policy choices. The institutions and policies of the U.S. government will be considered in light of historical change, constitutional procedures, and comparative perspectives. The government class is required as part of the IB MYP program as well as for high school graduation.
## SOCIAL STUDIES DEPARTMENT

*Courses with weighted grades*

### MODEL UNITED NATIONS
Prerequisite: Instructor Approval

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Students will have an opportunity to assume the role of a United Nations diplomat representing U.N. member countries. Students will then travel to model Security Councils and General Assemblies held around the state, including those at Cherry Creek High School, Regis, and Littleton High School. Weekly class meetings will feature study sessions on nations to be represented, parliamentary procedure, and briefings on world geopolitical issues. Class meets Wednesdays after school. **Transportation is the responsibility of the student.** This course is pass/fail.

**Note:** $60 to cover food, meet fees, and incidental expenses on trips

### PSYCHOLOGY
Prerequisite: None

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Psychology is the study of animal and human behavior in their attempt to function within their society. The students, by gaining a greater understanding of cause and effect in behavior, should be able to deal more effectively with themselves and others.

### SOCIOLOGY
Prerequisite: None

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Sociology is the science that studies human society and social behavior. Sociologists are mainly interested in social interaction (how people relate to one another and influence each other’s behavior). Consequently, sociology focuses on the group rather than on individual. This course will provide the student the opportunity to study topics such as socialization, culture, social issues, and social institutions. Sub-topics can include: crime, racism, deviance, religion, gender roles, poverty, and sexuality – virtually any topic which has the focus of people interacting with people. By relating sociological principles to family, friends, Smoky Hill High School, and the surrounding community, students will develop the skills necessary to conduct sociological research including conducting surveys, experiments, observations, interviews, and literary reviews.

### US HISTORY
Prerequisite: None

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This is a survey course covering US History from our beginnings through present times. Students will be exposed to political, social, economic, and diplomatic history. Students will learn methods of historical inquiry through the use of class discussions, lectures, primary sources, and technology. US History students will learn about the variety of references and resources available for providing them information about their history. Students will evaluate past experiences and apply these outcomes towards society and his/her role in it.

### US HISTORY (CONCURRENT ENROLLMENT WITH COMMUNITY COLLEGE OF AURORA)
Prerequisite: ACT English 17+ OR SATV 470 OR Accuplacer SS 70 and RC 62. Students may also qualify with a waiver for testing if cumulative GPA is 3.0+ and grades in 11th grade English course is B or better in the spring semester.

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This will be a two-semester course providing six possible college credit for students. First semester is basically exploration to Reconstruction. The second semester is US History since the Civil War. Both courses require a research paper to earn college credit. Explores events, trends, peoples, groups, cultures, ideas, and institutions in North America and United States history, including the multiple perspectives of gender, class, and ethnicity, between the period when Native American Indians were the sole inhabitants of North America and the American Civil War. The second semester focuses on the same themes listed above during the period of the American Civil War and the present. Focus in both courses is on developing, practicing, and strengthening the skills historians use while constructing knowledge in the discipline.

### WORLD RELIGIONS
Prerequisite: None

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This course is a study of the major religions of the world including Buddhism, Christianity, Hinduism, Judaism, Islam, and Taoism. The course will begin with a study of creation stories and mythology. Each religion will then be examined from several points of view: the historical development, beliefs and practices, and its effects on modern society. Students will do an in-depth study of a particular religious sect in order to appreciate its richness and its significance. The class will look at areas of religious controversy and the development of religious cults.

### YOU AND THE LAW
Prerequisite: None

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The American Law class will acquaint students with our legal traditions through a thorough examination of the Constitution as a framework of our system of law. Emphasis will be placed on correlating legal principles with everyday problems facing the individual and society. Throughout the course, the rights of all citizens will be examined by an exploration of the court system, trial procedures, constitutional law, criminal law, civil law, family law, consumer law, and juvenile law.
SPECIAL PROGRAMS

AVID

AVID ELECTIVE  
Grades: 9, 10, 11, 12  
Year: 1 credit  
Prerequisite: Acceptance into AVID program through application and interview  
AVID is a four-year program designed to prepare and guide students toward college. In the AVID elective class, students participate in activities that incorporate strategies focused on writing, inquiry, collaboration, and reading to support their academic growth. Students receive instruction in motivational activities, academic survival skills, and college entry skills. Tutor-led study groups are an integral part of the learning process.  
Note: After completing 3 units of AVID, students may request that 1 credit (maximum) credit be applied towards a specific graduation requirement (Fine Arts).

AVID TUTOR  
Prerequisite: Teacher Recommendation and/or Application  
Grades: 11, 12  
Semester: ½ credit

ELA

NEWCOMER ENGLISH LANGUAGE SUPPORT  
Grades: 9, 10, 11, 12  
Year: 1 credit  
Prerequisite: Students in ELA Program  
This course is intended for students whose native language is not English. This is an ELA beginning level course. There will be a strong emphasis on foundational literacy skills in reading, writing, listening, and speaking.

INTERNATIONAL BACCALAUREATE

CREATIVITY, ACTION, SERVICE (CAS)  
Grades: 11, 12  
Year: 1 credit  
Prerequisite: Admission into the IB Diploma Programme  
CAS gives IB diploma candidates the opportunity to enhance their personal development by learning through experience. Students will participate in 150 hours of community service between the beginning of their junior year and the end of their senior year. Students will manage the hour requirement between creativity, activity, and service projects as well as complete a big project within the 18-month timeframe. In addition, seniors will write a reflective piece, sharing their experiences throughout CAS. Although there is no grade received for CAS, hours will be tracked using PowerSchool. CAS must be completed to be eligible to receive the IB diploma.

THEORY OF KNOWLEDGE (TOK)  
Grades: 11, 12  
Semester: ½ credit  
Prerequisite: Admission into the IB Diploma Programme  
Theory of Knowledge is a core IB class that examines the very nature of knowledge itself within individual disciplines and by making connections between various fields of study. Students must complete a ten-minute oral presentation and the 1600-word Title Paper. The course runs from Spring semester of junior year through fall semester of senior year.

EXTENDED ESSAY (EE)  
Grades: 11, 12  
Year: 1 credit  
Prerequisite: Admission into the IB Diploma Programme  
Extended Essay independent study class wherein students write an academic-style research paper on a topic of the IB diploma candidate's choice from the available IB subjects, assessed according to the formal IB guidelines. Its goal is to cultivate a range of skills including: inquiry, research, independence, communication, critical thinking, writing, organization, referencing, and creativity. Extended Essay compels an IB candidate to understand the ethical academic process of adding individual voice to the body of knowledge. This is a pass/fail course.

PERSONAL PROJECT (PP)  
Grades: 10  
Year: 1 credit  
Prerequisite: Participation in the IB Middle Years Programme  
The Personal Project is a culminating project students complete in their 10th grade year of IB Middle Years Programme. This creative, independent, and research based project allows students to pursue an intellectual interest through the application of knowledge, approaches to learning, and Global Context. This is a pass/fail course. Passing score is required for continuation into the IB Diploma Programme.

LIBRARY/MEDIA

LIBRARY ASSISTANT  
Grades: 9, 10, 11, 12  
Semester: ½ credit  
Prerequisite: Librarian Approval  
Library assistants learn how to manage a customer service desk, check out and shelve books, help maintain the facility, stock supplies, work on audio visual projects, complete clerical tasks, assist with cleaning, and run errands. Excellent attendance and a willingness to work are required for joining the library staff.

LIBRARY INTERN  
Grades: 9, 10, 11, 12  
Semester: ½ credit  
Prerequisite: Library Assistant; Librarian Approval  
This course is designed for students who have already worked as a Library Assistant. Students interested in learning in greater detail about information resources, library services, and audiovisual production techniques should take this class. In addition to performing some Library Assistant responsibilities, students will have weekly lessons and complete a personal project regarding library issues, resources, or services.
SPECIAL PROGRAMS

STUDENT ACHIEVEMENT SERVICES

PUPIL SERVICES PEER TUTOR  
Grades: 9, 10, 11, 12  
Semester: ½ credit  
Prerequisite: Instructor Approval  
Provide assistance to severely handicapped students in the classroom, cafeteria, hallways, and mainstreamed classes on an individual or small group basis.

STUDENT LEADERSHIP

STUDENT LEADERSHIP  
Grades: 9, 10, 11, 12  
Year: 1 credit  
Prerequisite: Application; Instructor Approval

Student Leadership is an opportunity for students of all grade levels to represent the student body at Smoky Hill both within the school and out in the community. Students in this class serve as student body officers and class representatives with officer elections held in class in the spring of the previous school year. The major activities of Smoky Hill’s Student Leadership include Homecoming, school service activities, and community service projects. Students will learn and use leadership skills and activities to successfully plan and complete a wide range of events and activities. **This course will satisfy the IB MYP Design requirement.**

Note: After completing 3 units of Student Leadership, students may request that 1 credit (maximum) be applied towards specific graduation requirements (Fine Arts).

STUDENT ASSISTANT  
Grades: 9, 10, 11, 12  
Semester: ½ credit  
Prerequisite: Instructor or Office Approval

The student must contract with the teacher, counselor, dean, or administrator for whom he/she wishes to assist. A student assistant should be conscientious, hardworking, and responsible. He/she should be prepared to do general clerical work, and other varied tasks in assisting the individuals. Student assistants are used in the following departments: Business, English, World Language, Mathematics, Physical Education, Science, Activities/Athletics, Deans, Counseling, and Student Achievement Services.

**All student assistant positions may be taken more than once. However, only ½ credit may be used to complete the minimum 22 credits required for graduation.**

WORK EXPERIENCE EDUCATION PROGRAM  
Grades: 11, 12  
Year: 2 credits  
Prerequisite: Meet criteria for acceptance, Counselor Recommendation

The Work Experience Education Program is intended to give students experience in work settings where they meet regular work standards. Students work during the after-school hours and on weekends. The students are recommended for the program by counselors, teachers, and the administration. The students are supervised by the counselor-coordinator who supervises work experiences, helps facilitate social-emotional adjustments on the job, and monitors class attendance. The maximum credits that can be earned are four over a two-year period.
The Student Achievement Services Department offers special education programs for the students with specific, identified special needs that cannot be entirely satisfied within the regular curriculum. These programs employ teaching methodology and materials developed particularly to satisfy the individual learning style and academic level of each student.

*Placement is recommended on referral, assessment, and need identification through the IEP process.*

**ACADEMIC SUPPORT CENTER**

Grades: 9, 10, 11, 12  
Year: 1 credit

This course offers academic coaching and aggression replacement training.

**ACADEMIC SUPPORT LAB**

Grades: 9, 10, 11, 12  
Year: 1 credit

This course is developed for students to be successful with academic coursework in mainstream classes.

**FOUNDATIONS OF ENGLISH**

Grades: 9, 10, 11, 12  
Year: 1 credit

This course is designed for students whose reading and writing abilities are limited. The students will benefit from an integrated approach to improve reading, writing, listening, and speaking skills.

**FOUNDATIONS OF U.S. HISTORY**

Grade: 11  
Year: 1 credit

This course is designed for students whose reading and writing skills are limited. The curriculum will focus on U.S. History from our beginnings to the present time.

**FOUNDATIONS OF GOVERNMENT**

Grade: 10  
Year: ½ credit

This course is designed for students whose reading and writing skills are limited. This course is designed to help students understand the purposes of government and the basic constitutional principles of the U.S. republican form of government.

**GENERAL LIFE SKILLS**

Grades: 9, 10, 11, 12  
Year: 1 credit

The course is taught within the Integrated Learning Center (ILC). Students will develop functional skills such as grooming, organization of materials, and both gross and fine motor activities.

**ILC COMMUNITY**

Grades: 9, 10, 11, 12  
Year: 1 credit

The course is designed to teach functional vocational and community survival skills through direct practical experience. Students will work on grocery shopping for their own lunch or for recreation/leisure activities. Students will learn nutrition, meal preparation, money usage, and group dynamics.

**ILC ENGLISH**

Grades: 9, 10, 11, 12  
Year: 1 credit

This course is taught within the Integrated Learning Center (ILC). The class is designed to develop functional English skills with emphasis placed on functional writing, reading, vocabulary, grammar, and speech.

**ILC HEALTH**

Grades: 9, 10, 11, 12  
Year: 1 credit

This course is taught within the Integrated Learning Center (ILC). This class is designed for student with significant reading/writing deficits. The course will follow the curriculum of the district Health course but will be presented in a very basic, concrete manner.

**ILC MATH**

Grades: 9, 10, 11, 12  
Year: 1 credit

This course is taught within the Integrated Learning Center (ILC). The class is designed to assist students with learning functional math skills as they relate to real life experiences. The course includes practical math applications such as measurement, cooking, money, budgeting, and time management.

**ILC SCIENCE**

Grades: 9, 10, 11, 12  
Year: 1 credit

This course is taught within the Integrated Learning Center (ILC). This class is designed to assist students learning functional science and how it relates to daily life. General information relating to fields of biology, human physiology, ecology, and earth science are covered in this year long course.
**ILC SOCIAL STUDIES**

Grades: 9, 10, 11, 12  
Year: 1 credit

This course is taught within the Integrated Learning Center (ILC). The class is designed to introduce, develop, and review functional community/social skills. Students will explore functional words/signs, geography, maps, laws, job skills, and different cultures.

**WORK EXPERIENCE STUDY**

Grades: 16 years of age or older  
Semester/Year: 1-2 credits

This course provides work experience for students in special education program. Students work at least 15 hours/week on a job suitable to their development and receive credit. The WES coordinator evaluates students. Credit is granted for each semester successfully completed.
### VISUAL ARTS DEPARTMENT

*Courses with weighted grades*

#### DRAWING/PAINTING 1

<table>
<thead>
<tr>
<th>Grades: 9, 10, 11, 12</th>
<th>Semester: ½ credit</th>
</tr>
</thead>
</table>

Prerequisite: None

This course is designed to introduce students to the fundamentals of art through drawing, painting, and design. This is a structured studio environment in which students will work with a variety of traditional drawing and painting concepts through a progressive development of techniques, creative thinking strategies, and art history. **This course will satisfy the IB MYP Art requirement.**

#### DRAWING/DESIGN 1

<table>
<thead>
<tr>
<th>Grades: 9, 10, 11, 12</th>
<th>Semester: ½ credit</th>
</tr>
</thead>
</table>

Prerequisite: None

This course is designed to introduce students to the fundamentals of art through a variety of drawing materials and processes. This is a structured studio environment intended to introduce basic drawing and design concepts through a progressive development of techniques, creative thinking strategies, and art history. **This course will satisfy the IB MYP Art requirement.**

#### INTERMEDIATE DRAWING/PAINTING

<table>
<thead>
<tr>
<th>Grades: 10, 11, 12</th>
<th>Year: 1 credit</th>
</tr>
</thead>
</table>

Prerequisite: Drawing/Painting 1 AND/OR Drawing/Design 1

Intermediate Drawing and Painting is a continuation of the skills and techniques learned in Introduction to Drawing/Painting 1 and/or Drawing/Design 1. Students will work with a wide range of two-dimensional materials, including acrylic paints, watercolor, and printmaking. Assignments will focus on integrating design, technical skills, creative thinking strategies, and personal interpretation. Art history and aesthetics will be incorporated into the curriculum. **This course will satisfy the IB MYP Art requirement.**

Note: 9th graders may take this course with a Teacher Recommendation

#### *IB MYP VISUAL ARTS*

<table>
<thead>
<tr>
<th>Grades: 10</th>
<th>Year: 1 credit</th>
</tr>
</thead>
</table>

Prerequisite: Intermediate Drawing/Painting; Instructor Approval

This course is intended for students who plan to enter IB Visual Arts and have completed the prerequisite course. Students will be mentored into the program by being integrated into the IB Visual Arts class. Instruction will focus on helping students refine their technical and conceptual skills in a wide range of media and on helping students develop their own personal style. Students will begin selecting, researching, and interpreting thematic areas of personal interest. Lab fee of $40 includes a hardbound sketchbook and miscellaneous supplies. **This course will satisfy the IB MYP Art requirement.**

#### *ADVANCED STUDIO ART HONORS*

<table>
<thead>
<tr>
<th>Grades: 11, 12</th>
<th>Year: 1 credit</th>
</tr>
</thead>
</table>

Prerequisite: Instructor Approval, Intermediate Drawing/Painting

This course is intended for the highly motivated art student who is committed to experimentation, growth, and achievement in the study of art. Strong emphasis will be placed on creative problem solving, visual concepts, and refining technical skills in a wide range of two-dimensional media. Instruction will be focused on helping students interpret and develop thematic subjects in their own personal style. This course may be repeated for credit and has a weighted grade option. Lab fee of $40 includes a hardbound sketchbook and miscellaneous supplies.

#### *IB VISUAL ARTS HL (1,2)*

<table>
<thead>
<tr>
<th>Grades: 10, 11, 12</th>
<th>Year: 1 credit</th>
</tr>
</thead>
</table>

Prerequisite: Enrollment IB Diploma Program (Course is taken over 2 years)

IB Visual Arts is an intensive, two year course of study, combining both studio work and personal research that guide students to develop aesthetic, conceptual, technical, and cultural knowledge of the visual world that surrounds them. This course of study takes into account the cultural background and personal interests of the student, the location of the school, and the influences of indigenous cultures. Throughout the course, students will be provided the opportunity to develop a critical and intensely personal view of themselves in relation to their world. Students enrolled in this course may test at the Higher Level (HL) or Standard Level (SL) as a senior. The culminating event for the student is the IB Visual Arts exam that consists of an assessment of the student’s studio work and research created over the two-year period. Lab fee of $40 includes a hardbound sketchbook and miscellaneous supplies.
VISUAL ARTS DEPARTMENT
*Courses with weighted grades

POTTERY/SCULPTURE 1
Prerequisite: None
Grades: 9, 10, 11, 12  Semester: ½ credit
This course is designed for the beginning student who has little or no experience working with clay or other three dimensional materials. Students will become familiar with the various tools and equipment used by potters and sculptors. Students will be introduced to many ceramic artists and understand their contributions to their medium. Included in the course will be a study of the origin of clay, pottery design, hand building techniques, glaze application, kiln firing, and beginning techniques of using the pottery wheel. This course will satisfy the IB MYP Art requirement.

INTERMEDIATE POTTERY/SCULPTURE
Prerequisite: Pottery 1
Grades: 10, 11, 12  Year: 1 credit
Intermediate Sculpture is designed for the student who has successfully completed and enjoyed Pottery 1. This course will focus on more in depth learning associated with clay, glazing, and firing techniques. Students will experiment with projects that will be more demanding and have more depth of creative development. Students will be introduced to many ceramic artists and sculptors and their contributions to the medium. Students will experiment with advanced glazing techniques and styles. Lab fee of $20 for materials. This course will satisfy the IB MYP Art requirement.

ADVANCED POTTERY/SCULPTURE
Prerequisite: Pottery/Sculpture 1 and Intermediate Pottery/Sculpture
Grades: 11, 12  Year: 1 credit
This course is designed for students who have taken the first two levels of Ceramics and Sculpture classes. The curriculum will involve students working toward more personal work developed at an exemplary level in both sculpture and ceramics. The teacher will work toward student centered and idea driven projects that help students explore a variety of materials, tools, techniques, and subject matter. Students will develop ideas through personal research and a variety of investigation methods. Lab fee of $40.

*AP ART HISTORY
Grades: 9, 10, 11, 12  Year: 1 credit
Prerequisite: None
Designed for the motivated college bound student, AP Art History is a survey of the history of art throughout the world. Students will study the cross cultural evolution of artistic styles and traditions in painting, sculpture, and architecture while gaining an awareness of how art both stimulates and reflects human behavior. Students will have the opportunity to gain college credit by taking the AP Art History exam in May.

PHOTOGRAPHY/DIGITAL MIXED MEDIA
Grades: 10, 11, 12  Semester: ½ credit
Prerequisite: Drawing/Painting 1 AND/OR Drawing/Design 1 OR Instructor Approval
Photography/Digital Mixed Media will cover basic information for students interested in digital photography. This course will explore digital photography as well as Adobe Photoshop as an artistic tool. Students will be required to purchase and use a sketchbook throughout the course both as a classroom tool and a record of their experimentation and growth in the course. Lab fee of $40.
Note: 9th graders may take this course with a Teacher Recommendation.

FOUNDATIONS OF ART
Prerequisite: Teacher Recommendation ONLY
Grades: 10, 11, 12  Semester: ½ credit
A Unified Art class specifically designed for students who benefit from a modified curriculum with an emphasis on those with special needs. The opportunity for a limited number of student assistants is available through teacher recommendation only. Student assistants will receive Visual Art elective credit with enrollment in this class.
The following World Languages are offered at Smoky Hill HS: Japanese, Latin and Spanish. Any student may choose to start any language at Level 1 regardless of year in school.

**Middle School**

- World Language 1A & 1B

**9th-12th**

- World Language Level 1
- World Language Level 2
- World Language Level 3
- World Language Level 4

**Advanced**

**Middle School**

- World Language 1A & 1B

**9th-12th**

- World Language Level 1 IB MYP
- World Language Level 2 IB MYP
- World Language Level 3 IB
- World Language Level 4 Honors/AP/IB

- **Middle School Students** In order to continue in a World Language class, you need a teacher’s recommendation and must have successfully completed levels 1A and 1B.
- Students who have had significant exposure to the Spanish language at home (heritage or native speakers) may enroll in the Native Speakers class (see course descriptions).
WORLD LANGUAGE DEPARTMENT
*Courses with weighted grades

GUIDELINES FOR SELECTING WORLD LANGUAGE COURSES

World Languages offered at Smoky Hill include: Japanese, Latin, and Spanish.

Beginning with the 2020-2021 school year, French classes will no longer be offered at Smoky Hill.

Beginning with the graduating class of 2010, any student wishing to attend ANY Colorado college or university must have one successful year of any language. However, most colleges require 2-3 years of successful, consecutive years of a World Language. Check with your counselor to find out what you will need.

Americans must realize the importance of learning a second (or beyond) language. Our success in this changing world may depend solely on our relationships with other nations. A working knowledge of the languages and cultures of other nations is a prerequisite for anyone interested in international business or government. World Language, along with technology, is a key skill needed for success in the 21st century and; therefore, important for everyone.

Students satisfactorily completing a Level 5 World Language course will receive elective credit.

**JAPANESE 1/IB MYP**
Prerequisite: None
Grades: 9, 10, 11, 12
Year: 1 credit

This course provides an introduction to the language and culture of Japan. It focuses on listening, speaking, reading, and writing comprehension skills as well as various aspects of Japanese culture. Students will learn the sound system associated with the hiragana syllabus chart, and to read katakana syllabus in addition to recognizing a few kanji. Films, guest speakers, and field trips add to the classroom experience. The goal of this course is to meet the needs of survival level communication.

**JAPANESE 2/IB MYP**
Prerequisite: Japanese 1
Grades: 9, 10, 11, 12
Year: 1 credit

This is a continuation of Japanese 1 with more extensive practice in listening, speaking, reading, and writing comprehensions. Approximately 50 kanji are introduced. The goals of this course are to prepare students to have simple daily conversations and to understand and produce short essays and letters.

**JAPANESE 3/IB**
Prerequisite: Japanese 2
Grades: 9, 10, 11, 12
Year: 1 credit

This is a continuation of Japanese 2 with emphasis on advanced conversation, grammar, and composition. One hundred new kanji are introduced. The goals of this course are to prepare students to have extended discourse on selected topics and to understand and produce essays and letters on selected topics.

**JAPANESE 4 HONORS/IB**
Prerequisite: Japanese 3
Grades: 9, 10, 11, 12
Year: 1 credit

This course refines the previously learned skills in Japanese 1, 2, and 3. The emphasis will be on grammar, composition, reading, speaking, and listening comprehension in more challenging situations. This course is also designed to prepare the student to take the International Baccalaureate ab initio exam in Japanese.

**JAPANESE 5 HONORS/IB**
Prerequisite: Japanese 4 Honors
Grades: 9, 10, 11, 12
Year: 1 credit

This class will focus on intensive preparation for International Baccalaureate ab initio exam in Japanese. This course is also designed for students who are not in IB to enrich vocabulary and learn advanced grammar to improve current speaking, writing, and reading skills. A wide variety of authentic materials will be used in the classroom.
WORLD LANGUAGE DEPARTMENT

*Courses with weighted grades

<table>
<thead>
<tr>
<th>Course</th>
<th>Prerequisite</th>
<th>Grades</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>LATIN 1/IB MYP</td>
<td>None</td>
<td>9, 10, 11, 12</td>
<td>1 credit</td>
</tr>
<tr>
<td>Latin is the mother of five important languages (Spanish, French, Italian, Portuguese, and Romanian) of Europe and the Western World. It is also a great contributor to modern English. It is especially useful for students of law, medicine, pharmacy, and theology, as well as for students of philosophy, literature, history, archaeology, and medieval studies. In Latin 1, emphasis is placed on vocabulary, syntax, translation, word derivations, and Greek and Roman culture. The practical application of Latin and its everyday usefulness are stressed.</td>
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<td></td>
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</tr>
</tbody>
</table>

| LATIN 2/IB MYP  | Latin 1               | 9, 10, 11, 12 | 1 credit |
| Vocabulary, syntax, and word derivations continue to be emphasized as well as fluidity in translations. Instruction in Roman culture, history, and mythology will continue as well. |

| LATIN 3/IB      | Latin 2               | 9, 10, 11, 12 | 1 credit |
| This is a continuation of Latin 2 with greater emphasis placed on translation of authentic Latin texts. Vocabulary acquisition, grammar and use of rhetorical and poetic devices will be the focus. Cultural and historical information will be presented as it relates to the readings. |

| *LATIN 4 HONORS/IB | Latin 3               | 9, 10, 11, 12 | 1 credit |
| This course is designed to prepare the student to take the International Baccalaureate exam in Latin. Students who are not in the IB program may sit for the exam and qualify for a certificate in Classical Languages, which offers the same university credit as an AP exam. The topics for this course include part of both the prose and poetry works by late Republic and early Empire authors such as Ovid, Vergil, Horace, Catullus, Livy, and Cicero. |

| SPANISH 1       | Command of English    | 9, 10, 11, 12 | 1 credit |
| Spanish is the second most spoken language in the USA. This class emphasizes vocabulary for everyday life: food, shopping, sports, travel. The student will learn the basic skills of the language as well as gain great insight into the diversity of culture in Spanish-speaking countries using authentic materials. This class requires extensive listening, memorization, writing, speaking, and spelling in the target language. Students will be required to do regular homework and prepare for evaluations. This class is required as a base for all upper levels of this language. |

| IB MYP SPANISH 1| Teacher Recommendation | 9, 10, 11, 12 | 1 credit |
| Spanish is the second most spoken language in the USA. This class is designed to prepare students for the IB Diploma Program. It emphasizes vocabulary for everyday life: food, shopping, sports, travel, and reading comprehension. The student will learn the basic skills of the language as well as gain great insight into the diversity of culture in Spanish-speaking countries using authentic materials. This class requires extensive listening, memorization, writing, speaking and spelling in the target language. Students will be required to do regular homework and prepare for evaluations. This class is required as a base for MYP and IB upper levels of this language. |

| IB MYP SPANISH 2| MYP Spanish 1 AND Teacher Recommendation | 9, 10 | 1 credit |
| Students will continue to improve their ability to communicate in Spanish. This class builds on the skills acquired in MYP Spanish 1 and provides students with a broader vocabulary and grasp of the mechanics of the language using authentic materials. This class requires extensive comprehensive reading, listening, memorization, and writing, speaking, and spelling. Students will be required to do regular homework and prepare for written and oral evaluations. |

| SPANISH 2       | Spanish 1 AND Teacher Recommendation | 9, 10, 11, 12 | 1 credit |
| Students will continue to improve their ability to communicate in Spanish. This class builds on the skills acquired in Spanish 1 and provides students with a broader vocabulary and grasp of the mechanics of the language using authentic materials. This class requires extensive listening, memorization, writing, speaking, and spelling. Students will be required to do regular homework and prepare for evaluations. |

| SPANISH 3       | Spanish 2 AND Teacher Recommendation | 9, 10, 11, 12 | 1 credit |
| Students should consider level 3 as a minimum for learning a second language. This course is a continuation of the Spanish 1 and 2 series. Students will continue to fine-tune acquired skills and expand their knowledge by learning more vocabulary and strengthening their grammatical base. The students will be expected to communicate ideas through spoken and written Spanish. This class requires extensive listening, memorization, writing, speaking, and spelling using authentic materials. Students will be required to do regular homework and prepare for evaluations. |
IB SPANISH 3
Grades: 9, 10, 11
Year: 1 credit
Prerequisite: IB MYP Spanish 2 with a grade of “C” or higher AND/OR Teacher Recommendation
This class is the first step for the Spanish IB Exam preparation. Students will continue to fine-tune acquired skills and expand their knowledge by learning more vocabulary and strengthening their grammatical base. The students will be expected to communicate ideas through spoken and written Spanish. This class requires extensive listening, memorization, writing, speaking, and reading comprehension using authentic sources. Students will be required to do regular homework, work on cultural projects, and prepare for evaluations.

SPANISH 4
Grades: 9, 10, 11, 12
Year: 1 credit
Prerequisite: Spanish 3 AND Teacher Recommendation
This course refines the previously learning skills in Spanish 1, 2 and 3. The student will be expected to communicate ideas through spoken and written Spanish at an advanced level. It contains a thorough grammar review through the study of authentic sources. The course is conducted entirely in Spanish. Spanish 4 does not provide students with the basic skills to continue to AP Spanish 5.

*IB SPANISH 4 (SL)
Grades: 9, 10, 11, 12
Year: 1 credit
Prerequisite: IB Spanish AND Teacher Recommendation
This class prepares students for IB Spanish Exam (SL). The students will be expected to communicate ideas through spoken and written Spanish at an advanced level. It contains a thorough grammar review through the study of authentic sources. Students will be exposed to samples of the Internal and External Assessments. The course is conducted entirely in Spanish. IB Spanish 4 provides students with the basic skills to continue to AP/IB Spanish 5. Only juniors and seniors are allowed to take the exam at the end of the course.

*AP SPANISH LANGUAGE AND CULTURE
Grades: 9, 10, 11, 12
Year: 1 credit
Prerequisite: IB Spanish 4 or Spanish for Native Speakers AND Teacher Recommendation
This course is a preparation for the AP Spanish Language and Culture exam. It is designed to enrich vocabulary, reading comprehension, and provide a forum for speaking and writing at an advanced level. It contains a thorough grammar review through the study of authentic sources and extensive oral discussion. The class is conducted entirely in Spanish. This class will continue to provide preparation for IB students who did not meet the requirements for testing in IB Spanish.

*AP SPANISH LITERATURE AND CULTURE
Grades: 11, 12
Year: 1 credit
Prerequisite: AP Spanish Language and Culture AND Teacher Recommendation
This course prepares students to take the AP Spanish Literature and Culture exam in the spring. The AP Spanish Literature course is designed to meet the requirements of a third year college introduction to Hispanic Literature classes. This course is conducted in Spanish. Students will read and analyze a variety of authors, genres, periods, and themes in the literature from Spain and Latin America.

SPANISH FOR NATIVE SPEAKERS
Grades: 9, 10, 11, 12
Year: 1 credit
Prerequisite: Being a native or heritage speaker AND Teacher Recommendation
This intensive course will help you to expand and improve knowledge and experience of Spanish as a native language. The focus of the class will be on the academic aspects of the language and the improvement of reading and writing skills. Students will also learn and refresh vocabulary and grammar working extensively on reading, writing, listening, and speaking academic Spanish. The class is entirely in Spanish and the students will be required to do daily homework and be prepared for evaluations. Depending on the student’s achievement, students could repeat this class for a second year and earn double credit or continue to IB Spanish 4 or AP Spanish Language and Culture class with teacher approval.

SPANISH AB INITIO (SL)
Grades: 11, 12
Year: 1 credit
Prerequisite: IB Diploma student with no previous language experience, OR concurrent enrollment in French, Japanese, or Latin.
This is a two-year course for incoming IB Diploma students who have no previous language experience or who are interested in studying an additional language for their 6th subject option. The course will prepare students to sit for the Spanish ab initio (SL) exam in the senior year.
Cherry Creek Elevation is Cherry Creek School District’s online and blended learning school, serving students in grades 6-12. Cherry Creek Elevation offers many courses in various subject areas that students can take at no cost while remaining enrolled at Smoky Hill High School. For a full list of courses and information on how to apply, please visit the Course Registration Guide and Apply for Enrollment at [https://www.cherrycreekschools.org/elevation](https://www.cherrycreekschools.org/elevation).

**Students Served**
Students in grades 6-12, who reside in Cherry Creek School District, can enroll as a full time or part-time student. Part-time students can enroll as long as they are enrolled at their neighborhood CCSD school full time. Our students are typically independent learners who are motivated to earn a diploma, they are good at time management, and are able to advocate for themselves.

**Programming Options**
**Full-Time:** Students who enroll for full-time programming at Cherry Creek Elevation will maintain a full-time course load (5 or more classes online) with us. This programming option focuses on promoting growth for students who have demonstrated previous academic success (in online or traditional settings) and provides targeted and personalized support for all students, including those who may have struggled in the past. Students who meet the CCSD graduation requirements will receive a diploma from our school.

**Part Time:** Our hybrid model allows students to take up to 2 classes through our school while maintaining a full-time schedule at their neighborhood CCSD school.

**What is the application process?**
Enrollment information and applications will be found on our website. Enrollment occurs continuously, however, students enrolling past the first week of any grading period may have limited course options and/or will have reduced time to complete courses. Enrollment for both full and part-time students begins with an application. Additionally, full-time students will also complete a learner profile, orientation, and interview before enrollment will be offered.
CAREER & TECHNICAL EDUCATION

Cherry Creek Schools

Career & Technical Education
Your life, your world, your future.

2020-2021 Course Catalog
www.cherrycreekschools.org/CTE
CTE 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.

**Career Connections** is a CTE program designed to guide students through career exploration by partnering with local business and industry. This program includes the Career Exploration class, Executive Internship and Apprenticeship programs. All programs help students develop necessary skills for transition to career and/or post-secondary education.

**Concurrent Enrollment (CE)** is an opportunity for students to earn high school and college credit simultaneously. Many course in the Cherry Creek School District (CCSD) offer concurrent 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.
REGISTRATION PROCESS

HOME HIGH SCHOOL CTE COURSE REGISTRATION

Information about CTE elective courses offered at your home high school can be found in the high school’s course catalog. The course catalog provides information regarding the pathway of your selected CTE course, as well as any pre-requisites you may need to complete. To register for a course, follow home high school’s registration process.

CCIC AND CTE DISTRICT COURSE REGISTRATION

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 CTE course catalog to help you 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 CTE online application, opening on January 21, 2020. A link to the CTE 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 6, 2020. 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 6, 2020
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
CTE PATHWAYS AND PROGRAMS

Cherry Creek School District offers CTE courses in the below career pathways and programs:

CTE Pathways:
- Advanced Manufacturing
- Arts & Design
- Business Services
- Cosmetology
- Criminal Justice
- Family & Consumer Science
- Future Educator
- Health Sciences
- Hospitality & Tourism
- Infrastructure Engineering
- IT & STEAM
- Transportation

CTE Programs:
- Alternative Cooperative Education (ACE)
- Career Connections

The below chart outlines which pathways and programs are available at individual schools. Off-site pathways are offered through partnership school districts.

<table>
<thead>
<tr>
<th>Pathway/Program</th>
<th>Cherokee Trail</th>
<th>Cherry Creek</th>
<th>CCIC</th>
<th>Eaglecrest</th>
<th>Endeavor &amp; I-Teams</th>
<th>Grandview</th>
<th>Overland</th>
<th>Smoky Hill</th>
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<td>Advanced Manufacturing</td>
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<td>Criminal Justice</td>
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<td>Hospitality and Tourism</td>
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<td>Infrastructure Engineering</td>
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<td>IT and STEAM</td>
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<td>Career Connections</td>
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Pathway and Program Pages

All CTE courses are part of a CTE Pathway, which is a sequence of courses within a specific area of interest. The following pages provide basic information about the Pathways and Programs offered within Cherry Creek School District. Following the Pathway and Program pages, you will find specific descriptions for district CCIC and CTE courses. CTE courses offered at the home high school are listed in the home high school course catalogs.
The Advanced Manufacturing Pathway will help fill industry’s skills gap by giving students unique opportunities to be trained on manufacturing trends. Whether it be computer numerical control (CNC) manufacturing systems, materials processing, or precision measurement, students will be able to engage in hands-on learning with state-of-the-art CNC equipment including mills, lathes, water jets, routers, and plasma cutters. Courses available at: CCIC.

**Prepare for future careers like:**
- CNC Machinist
- Electromechanical Technician
- Production Technician
- Material Handler
- CNC Programmer
- Manufacturing Technician
- Quality Inspector
- Tool & Die Maker

**Prepare for industry certifications:**
- National Institute of Metalworking Skills (NIMS) Job Planning, Benchmark & Layout Credential
- National Institute of Metalworking Skills (NIMS) Measurement, Materials & Safety Credential

**Did you know?**
In 2017, the average manufacturing worker in the U.S. earned $84,832, including pay and benefits.

**Did you know?**
Manufacturers in the United States perform more than 75% of all private-sector research and development in the nation, driving more innovation than any other sector.*

**Did you know?**
Over the next decade, 2 million of the nearly 3.5 million jobs in manufacturing are expected to go unfilled because of the lack of skilled workers.*

* National Association of Manufacturers (http://www.nam.org)
The Arts and Design Pathway involves designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, photography, graphic design, and entertainment services. Courses available at: Cherry Creek, Eaglecrest, Grandview and Smoky Hill.

### Prepare for future careers like:
- Fashion Designer
- Interior Designer
- Graphic Designer
- Animator
- Artist
- Architect
- Photographer
- Web Designer

### Prepare for industry certifications like:
- Digital Animation certificate
- Adobe Photoshop certificates

### Did you know?
In 2018, the median annual wage for art directors in the advertising and public relations industry was $95,130.*

### Did you know?
Employment of graphic designers in computer systems design and related services is projected to grow 24% from 2018 to 2028.*

### Did you know?
A fashion designer in the motion picture and video industry had a median annual wage of $79,240 in 2018.*

### Our Partners

In a collaborative, startup-style learning environment, the Business Services Pathway will give students an opportunity to cultivate an entrepreneurial mindset and develop skills to build and manage their own businesses. Courses available at: Cherokee Trail, Cherry Creek, CCIC, Eaglecrest, Grandview, Overland and Smoky Hill.

<table>
<thead>
<tr>
<th>Prepare for future careers like:</th>
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</thead>
<tbody>
<tr>
<td>• Project Management</td>
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<tr>
<td>• Business Analyst</td>
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<tr>
<td>• Entrepreneur</td>
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<tr>
<td>• Accountant</td>
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<tr>
<td>• Sales Associate</td>
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<tr>
<td>• Marketing Associate</td>
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<tr>
<td>• Social Media Specialist</td>
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<tr>
<td>• Human Resources</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Prepare for industry certifications like:</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Microsoft Office certifications</td>
</tr>
<tr>
<td>• Certified Associate Project Manager</td>
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</tbody>
</table>

Did you know?
The median salary for human resource specialists in 2017 was $60,350.*

Did you know?
By 2027, employers will need 87.7 million people in project management related roles. The talent gap could result in a loss of $207.9 billion for the 11 countries analyzed.**

Our Partners

The Cosmetology Pathway will prepare students to become certified in cosmetology and esthetics. The facility offers industry-standard equipment, such as waxing and facial machines so students can familiarize themselves with how the equipment works in a learning setting. Students in the program learn business management skills as well as all the latest industry techniques so when they graduate, they are prepared for all aspects of the industry. Courses available at: Colorado’s Finest High School of Choice, Englewood School District.

<table>
<thead>
<tr>
<th>Prepare for future careers like:</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Esthetician</td>
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<tr>
<td>• Hairstylist</td>
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<tr>
<td>• Manicurist</td>
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<tr>
<td>• Skincare Specialist</td>
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<tr>
<td>• Cosmetologist</td>
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<tr>
<td>• Nail Technician</td>
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<tr>
<td>• Business Owner</td>
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<tr>
<td>• Massage Therapist</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Prepare for industry certifications like:</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Colorado Barber/Cosmetology Board state license</td>
</tr>
</tbody>
</table>

**Did you know?**

Personal care and service occupations will result in 1.2 million new jobs from 2018 to 2028.*

**Did you know?**

Employment of manicurists and pedicurists is projected to grow 10% from 2018 to 2028, faster than the average for all occupations.*

**Did you know?**

Skincare specialist positions are projected to increase of 11% due to new services like mini sessions and mobile facials.*
The Criminal Justice Pathway is a two-year program designed to emphasize entry level skills in a variety of criminal justice occupations. Students will learn about the agencies and processes involved in the criminal justice system including legislature, courts and corrections. Students will concentrate on forensics, crime scenes, and investigative techniques in the criminal investigation process. Courses available at: Cherokee Trail, Cherry Creek, Grandview, Overland, and Smoky Hill.

Prepare for future careers like:
- Public Defender
- Corrections Officer
- Law Enforcement
- Detective
- Crime Scene Investigator
- Court Reporter
- Judge
- Lawyer

Prepare for industry certifications like:
- Associate of Arts: Criminal Justice degree

Did you know?
The median annual wage for lawyers in the Federal government industry in 2018 was $120,910.*

Did you know?
Employment of police and detectives is projected to grow 5% from 2018 to 2028.*

Our Partners

The Family and Consumer Sciences Pathway motivates students to manage the challenges of living and working in a diverse global society. Our unique focus is on families, work and interpersonal relationships. This pathway offers a wide variety of student learning in food and nutrition, human development and the family, parenting and early childhood education, and career awareness in related occupations. Courses available at: CCIC, Cherry Creek, Eaglecrest, Grandview, Overland and Smoky Hill.

<table>
<thead>
<tr>
<th>Prepare for future careers like:</th>
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<tbody>
<tr>
<td>• Executive Chef</td>
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<tr>
<td>• Fashion Designer</td>
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<tr>
<td>• Teacher</td>
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<tr>
<td>• Childcare Provider</td>
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<tr>
<td>• Food Stylist</td>
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<tr>
<td>• Interior Designer</td>
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<tr>
<td>• Nutritionist</td>
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<tr>
<td>• Caterer</td>
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<tr>
<th>Prepare for industry certifications like:</th>
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<tbody>
<tr>
<td>• ServSafe Food Handler and Manager</td>
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<tr>
<td>• ProStart National Certificate of Achievement</td>
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</table>

**Did you know?**

**Employment of food service managers is projected to grow 11% from 2018 to 2028.***

**Did you know?**

The median annual wage for high school teachers was $60,320 in 2018.*

**Did you know?**

In the motion picture industry, the median annual wage for a fashion designer is $79,240.*

---

The Future Educator Pathway is an innovative program that introduces high school students to the teaching profession. Students explore the learner, the school and the role of the teacher through exciting hands-on activities, guest speakers, field trips, observations, job shadowing and cooperative learning situations. Students have an opportunity to be hired as a para-professional and work in Cherry Creek School District. Courses available at: CCIC.

**Prepare for future careers like:**

- Teacher
- Instructional Coach
- Paraprofessional
- Counselor
- School Administrator
- Professor
- Tutor
- Camp Counselor

**Prepare for industry certifications like:**

- Para-Professional License

**Did you know?**

The median pay for an Instructional Coordinator in 2018 was $64,450.*

**Did you know?**

Employment of high school teachers is projected to grow 4% from 2018 to 2028* due to rising student enrollment.

**CTSO**

The median annual wage for elementary teachers in 2018 was $58,230.*

**Our Partners**

Whether a student’s focus is physical or occupational therapy, behavioral health, nursing, or pharmacy, the Health & Wellness Pathway provides students opportunities to explore various Health professions at the aide/technician level. In these courses, students will meaningfully integrate their knowledge and skills with hands-on labs, authentic clinical settings, and industry-grade equipment. Courses available at: Cherokee Trail, Cherry Creek, CCIC, Overland and Smoky Hill.

<table>
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<tr>
<th>Prepare for future careers like:</th>
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<tbody>
<tr>
<td>• Physical Therapist</td>
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<td>• Registered Nurse</td>
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<td>• Counselor</td>
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<tr>
<td>• Psychiatrist</td>
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<tr>
<td>• Pharmacist</td>
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<tr>
<td>• Social Worker</td>
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<td>• Athletic Trainer</td>
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<td>• Occupational Therapist</td>
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<tr>
<th>Prepare for industry certifications like:</th>
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<tbody>
<tr>
<td>• First Aid/CPR/AED</td>
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<tr>
<td>• Certified Nurse Aide</td>
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<tr>
<td>• Behavioral Health Technician</td>
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<td>• Pharmacy Technician</td>
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**Did you know?**
In May 2017, the average wage for a pharmacy technician was $31,750, while the average wage for a pharmacist was $124,170.*

**Did you know?**
Registered nurses can work with a variety of specific patient groups including addiction, critical care, public health, neonatology, and rehabilitation.*

**Did you know?**
Job opportunities for physical therapists are projected to grow 28% from 2016 to 2026, much faster than the 7% growth projection for all occupations.

With a focus on leadership development, students in the Hospitality & Tourism Pathway will be able to develop the skills to manage, market, and operate foodservice establishments, hotels, and resorts. Whether through guest visits, site tours, or apprenticeships, students will have engaging and unique opportunities to advance their culinary skills and deepen their understanding of business operations and world-wide tourism. Courses available at: CCIC.

Prepare for future careers like:

- Executive Chef
- Food Stylist
- Marketing Director
- General Manager
- Catering Director
- Executive Housekeeper
- Restaurant Owner
- Pastry Chef

Prepare for industry certifications like:

- ProStart National Certificate of Achievement
- ServSafe Food Handler and Manager
- ServSuccess Certified Restaurant Professional

Did you know?

In the U.S., lodging and tourism is a Top 10 industry in 48 of the 50 states. The hospitality sector is expected to add 2.1 and 3.3 million jobs by 2021.*

Did you know?

Employment for chefs and head cooks is projected to grow 11% from 2018 to 2028.

Did you know?

In Colorado, 10% of all jobs held are in the restaurant industry.

Our Partners

From framing to HVAC to drywall, it takes many different kinds of skilled workers to make a new building habitable! The Infrastructure Engineering Pathway gives students a chance to explore several careers in building trades. With opportunities to operate cranes and/or forklifts, pour concrete, and frame buildings, students will get the chance to work with their hands and experience “on the job” training to build structures. Courses available at: CCIC.

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<th>Prepare for future careers like:</th>
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<tbody>
<tr>
<td>• HVAC Technician</td>
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<td>• Forklift Operator</td>
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<td>• Electrician</td>
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<td>• Carpenter</td>
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<td>• Plumber</td>
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<tr>
<td>• Roofer</td>
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<td>• Landscaper</td>
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<td>• Drywaller</td>
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<tr>
<th>Prepare for industry certifications like:</th>
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<tbody>
<tr>
<td>• Occupational Safety and Health Administration (OSHA) 10-Hour Card</td>
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<tr>
<td>• Home Builders Institute Pre-Apprenticeship Certificate Training</td>
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<tr>
<td>• National Center for Construction Education and Research credentials</td>
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Did you know?
The median annual wage for plumbers in 2017 was $52,590.*

Did you know?
Colorado’s construction industry is expected to need 30,000 new employees over the next 7 years.**

Did you know?
Job opportunities for workers in various construction trades are expected to grow 10% between 2016 and 2026, compared to the 7% for all occupations.*

Our Partners

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From virtual reality to cybersecurity to robotics, the IT & STEAM Pathway gives students opportunities to use, learn, and create cutting edge technologies to tackle the challenges the future may bring. Through hands-on experiences, students can take ideas from conception to reality, learn to troubleshoot any kind of personal computing device or computer network, or build their own virtual reality environments. Courses available at: Cherokee Trail, Cherry Creek, CCIC, Eaglecrest, Grandview and Overland.

**Prepare for future careers like:**

- Network Administrator
- IT/STEAM Educator
- Mechanical Engineer
- Computer Engineer
- Product Designer
- IT Support Specialist
- Game Designer
- Data Analyst

**Prepare for industry certifications like:**

- SOLIDWORKS certifications
- Unity Certified Associate

---

**Did you know?**

The median annual wage for engineers in 2018 was $90,060.*

**Did you know?**

Job opportunities for information security analysts is projected to grow 28% from 2016 to 2026, compared to 13% growth for all computer occupations.

**Did you know?**

The median annual wage for industrial designers in 2018 was 66,970.*

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**Our Partners**

The Transportation Pathway will give students a unique opportunity to get hands-on experience learning to inspect, service, and repair automobiles and aircraft. Whether it be diving into the electrical circuits, tire alignments, and suspension repairs for cars or exploring the engine, landing gear, and hydraulic systems on airplanes, students will have a one-of-a-kind opportunity to build invaluable skills with industry-standard tools and equipment. Courses available at: CCIC, Overland, Smoky Hill and Metro State University.

**Prepare for future careers like:**
- Automotive Technician: local repair shop, dealerships, fleet maintenance, specialty shops
- Aircraft Mechanic: major airlines, flight schools, air ambulance, cargo aircraft, corporate jets

**Prepare for industry certifications like:**
- Snap-on Certifications
- Automotive Service Excellence: Maintenance & Light Repair, Automobile Service & Technology
- Federal Aviation Administration: Mechanic Certificate with Airframe and Powerplant Ratings

**Did you know?**
In 2017, the median annual income for aircraft mechanics was $61,020.*

**Did you know?**
Job opportunities for automotive service technicians and mechanics is projected to grow 7% between 2016 and 2026.*

**Did you know?**
There will be a shortage of aviation mechanics in the U.S. starting in 2022.**

**Our Partners**

Alternative Cooperative Education (ACE) is a multi-occupational program that facilitates individualized, developmentally appropriate programming necessary to support CTE students successfully. This includes students identified as Special Populations. ACE CTE Programming is developed through collaboration with educators, business representatives and community stakeholders. The collaboration creates local and relevant work-based and school-based learning experiences.

Learn about Postsecondary Workforce Readiness skills like:

- Career Development
- Business and Industry
- Independent Living
- Work-Based Learning
- Academic Foundations
- Business and Industry

ACE Programs Include:

**Career Development**

This class is designed to help students understand and explore the personal and employability skills that are foundational to successfully transitioning into the workplace. Students will be able to articulate their personal strengths, barriers, interests and career cluster choices. Students will engage in personal development, self-discipline skills, interpersonal communication, leadership, critical thinking, and ethical decision making for the tools necessary to pursue a career path.

**Work-Based Learning: In School and In Community**

This course is designed for students to enhance employability skills by participating in an in-school or community work experience program (paid or unpaid.) A training plan and evaluation will be developed listing job specific technical skills the students will learn during the experience. Students will demonstrate levels of self-awareness, career exploration, and postsecondary option knowledge and employability skills.
Career Connections is a program designed to connect students with career pathways of interest by partnering with businesses in the community. Through experiences including the Career Exploration class, career readiness training, career tours, career shadowing, career days, internships and apprenticeships, students will have the opportunity to explore career pathways and develop career readiness skills.

### Learn about future careers in:

- Hospitality
- Manufacturing
- Sales
- Architecture
- Finance
- Human Resources
- Healthcare
- Marketing
- Architecture
- Human Resources

### Career Connections offers three programs:

#### Career Exploration

Career Exploration is a year-long class designed to help students explore careers and career pathways in context of their personal interests, strengths, and preferences. Key concepts of focus include: Career Awareness, Financial Literacy, Personal Message, Employment Skills, Understanding of Career Pathways and Self-knowledge.

Classes available at: Cherokee Trail, Eaglecrest, Overland, Smoky Hill

#### Executive Internships

The Internship Program will provide an opportunity for selected students to have experiences in a career field that they would like to pursue after graduation. An academic internship is a form of a first-hand learning that integrates knowledge and theory learned in the classroom with practical application and skill development in a professional setting. Internships are unpaid.

#### Apprenticeships

Cherry Creek School District will work collaboratively with CareerWise Colorado and industry partners to create an apprenticeship program unique to individual students’ interests and abilities. CareerWise modern youth apprentice students earn a wage while receiving hands-on work experience where they can apply their high school classroom learning each week. Typically, the apprenticeships are 2-3 years in length. Eligibility depends on student’s maturity, reliability, commitment and graduation status.

### Some of our partners include:
The following pages include course pathway and descriptions for courses offered at the Cherry Creek Innovation Campus, and throughout Cherry Creek School District.

**CORE CLASSES OFFERED AT CCIC**

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

**CP Innovator’s English A** - In this integrative English course, students demonstrate career and college readiness, developing leadership, reading, and 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 and responses in argumentative/persuasive form to further enhance knowledge of career-related issues and 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.

**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.

**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.

**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.

**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.

**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.

**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.

**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

<table>
<thead>
<tr>
<th>GRADES: 10-12</th>
<th>LENGTH: 1 SEMESTER</th>
<th>CREDITS: .5 CTE/ .5 MTH B</th>
<th>EST. FEES: $140</th>
</tr>
</thead>
</table>

**Prerequisites:** N/A

**Concurrent Enrollment:** N/A

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

**Course Description:** This course covers essential principles behind manufacturing processes and provides a working knowledge of a broad range of manufacturing procedures. Manufacturing Fundamentals includes instruction on hand tools, portable electric power tools, and the introduction to various computer-controlled production machines, including water jet cutters, routers, and plasma cutters. Brief experiences with plastic injection molding, vacuum-forming equipment, and composites production are also included. Featured equipment includes HAAS Automation, HyperTherm, Starrett, Plural Additive Manufacturing, Instron, Formech, Dewalt and JET.

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

<table>
<thead>
<tr>
<th>GRADES: 10-12</th>
<th>LENGTH: 1 SEMESTER</th>
<th>CREDITS: .5 CTE/ .5 MTH B</th>
<th>EST. FEES: $140</th>
</tr>
</thead>
</table>

**Prerequisites:** N/A

**Concurrent Enrollment:** N/A

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

**Course Description:** Computer Numeric Control (CNC) Machining provides students opportunities to work with various 3 Axis CNC milling machines and a CNC lathe. Students learn how to utilize SolidWorks 3D modeling software and SolidWorksCAM to transform a virtual model into a physical product. Students also learn how to use a HAAS and Tormach manufacturing equipment, Instron precision testing equipment, and Starrett precision measurement tools. Additional units of study introduce students to industrial grade, multi-material 3D printing, precision measurement, and quality control. Featured equipment includes HAAS AutoMation, HyperTherm, Starrett, Plural Additive Manufacturing, Instron, Formech, Dewalt and JET.

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

**MANUFACTURING FUNDAMENTALS II**

<table>
<thead>
<tr>
<th>GRADES: 11-12</th>
<th>LENGTH: 1 YEAR</th>
<th>CREDITS: 1.0 CTE/ 1.0 MTH B</th>
<th>EST. FEES: $110</th>
</tr>
</thead>
</table>

**Prerequisites:** Manufacturing Fundamentals and CNC Machining

**Concurrent Enrollment:** N/A

**Certifications:** National Institute of Metalworking Skills (NIMS)

**Course Description:** Fundamentals of Manufacturing II is a full year course that gives students a chance to expand on what was introduced in Fundamentals of Manufacturing I. This course concentrates on mass production and industry-level part-creation using CNC routers, plasma cutters and water jet cutters. Students also have access to injection molding, vacuum forming, composite materials and traditional tooling and hand operations. Students work individually as well as in teams to create real world industry design parts. NIMS certification preparation is an additional focus of the class.

**CNC MACHINING II**

<table>
<thead>
<tr>
<th>GRADES: 11-12</th>
<th>LENGTH: 1 YEAR</th>
<th>CREDITS: 1.0 CTE/ 1.0 MTH B</th>
<th>EST. FEES: $110</th>
</tr>
</thead>
</table>

**Prerequisites:** Manufacturing Fundamentals and CNC Machining

**Concurrent Enrollment:** N/A

**Certifications:** National Institute of Metalworking Skills (NIMS)

**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 setups and operations not covered in the basic CNC Machining. NIMS certification preparation is an additional focus of the class.
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.

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.
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.

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 the CCIC is eligible to take the CTE Capstone course. 

*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.
### EDHD 1030 EARLY FIELD EXPERIENCE AND SEMINAR

<table>
<thead>
<tr>
<th>Grades: 11-12</th>
<th>Length: 1 Semester</th>
<th>Credits: .5 CTE</th>
<th>EST Fees: N/A</th>
</tr>
</thead>
</table>

**Prerequisites:** N/A  
**Concurrent Enrollment:** University of Colorado at Denver, EDHD 1030  
**Certifications:** N/A  
**Course Descriptions:** Working within diverse community contexts to support children’s learning requires the competencies explored in this course. The experiences of seminar, paired with practice-based mentoring in a local school or community setting, will help each student develop theoretical grounding as a community based educator.

### CLDE 1000 LANGUAGE, POWER & IDENTITY

<table>
<thead>
<tr>
<th>Grades: 11-12</th>
<th>Length: 1 Semester</th>
<th>Credits: .5 CTE</th>
<th>EST Fees: N/A</th>
</tr>
</thead>
</table>

**Prerequisites:** N/A  
**Concurrent Enrollment:** University of Colorado at Denver, CLDE 1000  
**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.
**Introduction to Health & Wellness**

10th-12th Grade
Course includes exploration of healthcare careers and content related to basic anatomy, physiology, and medical terminology.

*Suggested prerequisite for courses in the Health & Wellness pathway*

**Certified Nurse Aide**
11th-12th Grade
Course prepares students to perform patient care in the role of a nurse aide.

**Behavioral Health Technician**
11th-12th Grade
Course explores and applies basic principles of behavioral & mental health.

**Introduction to PT/OT**
11th-12th Grade
Course prepares students for patient care as a PT/OT aide.

**Pharmacy Technician**
12th Grade
Students learn the role and function of pharmacy technicians.

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**INTRODUCTION TO HEALTH & WELLNESS**

**GRADES: 10-12 | LENGTH: 1 SEMESTER | CREDITS: .5 CTE/.5 LIFE SCI | EST. FEES: $85**

**Prerequisites:** N/A

**Concurrent Enrollment:** Arapahoe Community College (HPR 123, HPR 124, Medical Terminology)

**Certifications:** American Red Cross CPR/FAS/AED

**Course Description:** An exploration of careers in healthcare, along with necessary leadership and employability skills. Students will learn basic human anatomy, physiology, medical terminology, Maslow’s Hierarchy of Needs, CPR/First Aid, and Safety/AED certification.

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**CERTIFIED NURSE AIDE**

**GRADES: 11-12 | LENGTH: 1 SEMESTER | CREDITS: .5 CTE/.5 LIFE SCI | EST. FEES: $165**

**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.

*Suggested prerequisite: Introduction to Health & Wellness.*
### Behavior Health Technician

**Grades:** 11-12  
**Length:** 1 Year  
**Credits:** 1.0 CTE/1.0 ENG  
**Est. Fees:** $98

**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:** Explores basic principles of behavioral health and wellness care in a behavioral healthcare setting. This course develops interpersonal and technical skills while working with clients in psychiatric care settings.  
_Suggested prerequisite: Introduction to Health & Wellness_

### Introduction to Physical and 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:** Physical and Occupational Therapists help people who are injured, ill, or disabled regain skills needed for the activities of daily life. Physical and Occupational Therapy Assistants set up treatment plans and work under the Physical or Occupational Therapist. Students learn how to prepare materials and treatment rooms, assemble equipment, follow HIPAA guidelines, communicate in the workplace, and perform clerical tasks necessary for physical and occupational therapy aides.  
_Suggested prerequisite: 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 introduces students to the role and functions of a Pharmacy Technician. The content and skills covered are ethical conduct, communication skills, patient care, proper medication handling, medication ordering, patient confidentiality, regulatory compliance, basic anatomy, physiology, and medical terminology. Students will be required to pass a background check and drug screening.  
_Suggested prerequisite: Introduction to Health & Wellness_
# LODGING & RESORT MANAGEMENT / PROSTART PATHWAYS

<table>
<thead>
<tr>
<th>Course</th>
<th>Grade(s)</th>
<th>Length</th>
<th>Credits:</th>
<th>Est. Fees:</th>
</tr>
</thead>
<tbody>
<tr>
<td>ProStart I/ProStart II</td>
<td>10th-12th Grade</td>
<td>1 year</td>
<td>1.0 CTE / 1.0 ENG B</td>
<td>$165</td>
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<tr>
<td>ProStart Youth Apprenticeship</td>
<td>11th-12th Grade</td>
<td>1 year</td>
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<tr>
<td>Lodging &amp; Resort Management</td>
<td>11th-12th Grade</td>
<td>1 year</td>
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</tbody>
</table>

**Prerequisites:** N/A

**Dual Enrollment**: Metro State University of Denver (HLDR 1000 & HLDR 1500), $50 additional fee per credit, 6 credits

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

*Suggested Prerequisites: Intro to Business, Marketing, or Leadership*

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

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**CCICafé business operations, food production principles, marketing, team building, and communication.**
**PROSTART I / PROSTART II**

<table>
<thead>
<tr>
<th>GRADES: 10-12</th>
<th>LENGTH: 1 YEAR</th>
<th>CREDITS: 2.0 CTE</th>
<th>EST. FEES: $175</th>
</tr>
</thead>
</table>

**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 1200); ProStart II - Metro State University of Denver (RST 1550), $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

**Course Topics:** Careers in the foodservice industry, food safety & sanitation, commercial equipment, baking, cooking methods, marketing and management fundamentals, cost control, nutrition, meats, pasta, desserts, and sustainability in the industry. Students will also have the chance to work in the CCICafé alongside the ProStart Youth Apprenticeship students.

*Suggested Prerequisites: Foods & Nutrition or Gourmet Foods*

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**PROSTART YOUTH APPRENTICESHIP**

<table>
<thead>
<tr>
<th>GRADES: 11-12</th>
<th>LENGTH: 1 YEAR</th>
<th>CREDITS: 1.0 CTE/1.0 ENG</th>
<th>EST. FEES: $175</th>
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</table>

**Prerequisites:** ProStart 1 and/or ProStart 2

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

**Course Topics:** Expansion of topics learned in ProStart I/ProStart II with a focus on food production, food safety and sanitation, commercial equipment, baking, cooking methods, cost control, and more. Hours are earned through operating the CCICafé business on campus as well as jobs in the industry.

*Suggested Prerequisites: Foods & Nutrition/Gourmet Foods/Catering, Intro to Business/Marketing*
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, HBI PACT (Pre Apprenticeship Certificate Training), NCCER (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.

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:** National Center for Construction Education and Research (NCCER) Carpentry, Electrical, Plumbing Home Builders Institute Pre Apprenticeship Construction Training (PACT) 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.
IT PATHWAY

**INTRODUCTION TO PROGRAMMING**

**GRADES:** 10-12  
**LENGTH:** 1 SEMESTER  
**CREDITS:** 1.0 CTE  
**EST. FEES:** $30

**Prerequisites:** Algebra I (B or better)

**Concurrent Enrollment:** N/A

**Certifications:** N/A

**Course Topics:** Variables, operators, conditionals, iteration, arrays, classes & objects, inheritance, algorithms.

*SHH and END students interested in IT/STEAM pathway must take an introductory programming course at home high school.

**DATA SCIENCE I: FOUNDATIONS**

**GRADES:** 10-12  
**LENGTH:** 1 SEMESTER  
**CREDITS:** .5 CTE/.5 MTH C  
**EST. FEES:** $30

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

**Concurrent Enrollment:** N/A

**Certifications:** N/A

**Course Topics:** Collecting, cleaning, manipulating, and visualizing data with Python, R, and their appropriate libraries; data analysis tools, statistics, and appropriate knowledge of business (or related) operations for decision making with data.
## 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  
**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 supervised learning, unsupervised learning, and best practices in machine learning.

## CYBERSECURITY I: COMPUTER SYSTEMS

**Grades:** 10-12  
**Length:** 1 semester  
**Credits:** 1.0 CTE  
**Est. Fees:** $50

**Prerequisites:** One of the following: Introduction to Programming, 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:** Computer hardware (RAM, CPU, peripherals, etc.), operating systems (Windows, MacOS, Linux), software applications, computer networks and their security implications.

## CYBERSECURITY II: NETWORKS & SECURITY

**Grades:** 10-12  
**Length:** 1 semester  
**Credits:** .5 CTE/.5 MTH D  
**Est. Fees:** $50

**Prerequisites:** Cybersecurity I: Computer Systems  
**Concurrent Enrollment:** N/A  
**Certifications:** CompTIA Network+, TestOut Network Pro, CompTIA Security+, Testout Security Pro  
**Course Topics:** Design, implement, and troubleshoot issues in wired and wireless networks, security as applied to business operations, and basic cryptography methods.

## CYBERSECURITY III: ETHICAL HACKING

**Grades:** 10-12  
**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:** TBD  
**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 (Practical) certification and will prepare students for entry-level jobs in penetration testing and cybersecurity.
STEAM PATHWAY

*Computer Aided Design I
10th-12th grade
Learn about creating CAD files to create physical objects.
*SHH, CCH & END students only

Drone Pilot
10th-12th grade
Learn all concepts and skill required for FAA Part 107 Drone Pilot Certification.

Product Design I
10th-12th grade
Bring ideas from initial concept to tangible reality using design thinking and processes.

Advanced Robotics & Automated Systems
10th-12th grade
Design and program a robot to navigate land, sea, and space.

Virtual Reality
10th-12th grade
Develop virtual reality applications for both consumer and enterprise solutions.

**COMPUTER AIDED DESIGN I (formally CAD for Fabrication)**

**GRADES: 10-12 | LENGTH: 1 SEMESTER | CREDITS: .5 CTE/.5 MTH B | EST. FEES: $100**

**Prerequisites:** N/A

**Concurrent Enrollment:** N/A

**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.

**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 Small UAS Rule (Part 107)

**Course Topics:** Concepts in this course include drone components, drone operation, pilot skills, careers related to drones, and the regulations governing drone operation. At the conclusion of the course, students will be prepared to take the FAA Part 107 Drone Pilot Certification Exam.

**PRODUCT DESIGN I**

**GRADES: 10-12 | LENGTH: 1 SEMESTER | CREDITS: .5 CTE/.5 PHY SCI | EST. FEES: $100**

**Prerequisites:** N/A

**Concurrent Enrollment:** N/A

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

**Course Topics:** Students that are interested in careers involving design, engineering and innovation. Student 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.
### 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  
**Concurrent Enrollment:** N/A  
**Certifications:** SOLIDWORKS Certified Associate - CSWA-AM Additive Manufacturing (if not taken at home high school), SOLIDWORKS Certified Expert - CSWE Mechanical Design (if not taken at home high school), SOLIDWORKS Certified Professional - CSWP Mechanical Design (if not taken at home high school)  
**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.

### ADVANCED ROBOTICS & AUTOMATION 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.
## MAINTENANCE AND LIGHT REPAIR (MLR) I

<table>
<thead>
<tr>
<th>GRADES: 10-12</th>
<th>LENGTH: 1 YEAR</th>
<th>CREDITS: 1.0 CTE/ 1.0 PHY SCI</th>
<th>EST FEES: $95</th>
</tr>
</thead>
</table>

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

**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:** Automobile service and repair, shop safety, engine repair, automatic transmissions and transaxles, manual drivetrain and axles, suspension and steering, brakes, electrical and electronic systems, heating and air conditioning, and engine performance.

## MAINTENANCE AND LIGHT REPAIR (MLR) II

<table>
<thead>
<tr>
<th>GRADES: 11-12</th>
<th>LENGTH: 1 YEAR</th>
<th>CREDITS: 1.0 CTE/ 1.0 PHY SCI</th>
<th>EST. FEES: $95</th>
</tr>
</thead>
</table>

**Prerequisites:** MLR 1

**Concurrent Enrollment:** Arapahoe Community College (ASE 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:** Advanced concepts in automobile service and repair, shop safety, engine repair, automatic transmissions and transaxles, manual drivetrain and axles, suspension and steering, brakes, electrical and electronic systems, heating and air conditioning, and engine performance.

## AUTO SERVICE TECHNOLOGY MLR III HIGH PERFORMANCE

<table>
<thead>
<tr>
<th>GRADES: 12</th>
<th>LENGTH: 1 YEAR</th>
<th>CREDITS: 2.0 CTE</th>
<th>EST. FEES: $95</th>
</tr>
</thead>
</table>

**Prerequisites:** Maintenance and Light Repair 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:** Advanced diagnostic techniques including high performance concepts, Skills USA, apprenticeship preparation.
## Two Year Accelerated Aviation Maintenance Pathway

### Year 1

**Accelerated General Aircraft Maintenance I**
- **Grades:** 11-12
- **Length:** 1 Year (meets daily)
- **Prerequisites:** Completion of CCIC Math Assessment
- **Concurrent Enrollment:** N/A
- **Certifications:** Snap-on Multimeter
- **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.

### Summer

**Airframe I**
- **Grades:** 11-12
- **Length:** 7.5 hrs/day, 20 days
- **Prerequisites:** General Aircraft Maintenance I & II
- **Concurrent Enrollment:** N/A
- **Certification:** Snap-on Torque and Snap-on Precision Measurement
- **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.

### Year 2

**Accelerated Airframe II**
- **Grades:** 11-12
- **Length:** 1 Year (meets daily)
- **Prerequisites:** General Aircraft Maintenance I & II, Airframe I
- **Concurrent Enrollment:** N/A
- **Certifications:**
- **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.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Length</th>
<th>Credits</th>
<th>Estimated Fees</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-12</td>
<td>1 Year</td>
<td>2.0 CTE</td>
<td>$150</td>
</tr>
<tr>
<td>11-12</td>
<td>1 Year</td>
<td>3.0 CTE</td>
<td>$150</td>
</tr>
<tr>
<td></td>
<td>1 Year</td>
<td>1.0 CTE</td>
<td>$100</td>
</tr>
</tbody>
</table>
## TWO YEAR ACCELERATED AVIATION MAINTENANCE PATHWAY

### AIRFRAME IV (SUMMER)

<table>
<thead>
<tr>
<th>GRADES: 12</th>
<th>LENGTH: 7.5 hrs/day, 20 days</th>
<th>CREDITS: 0.5 CTE/ 0.5 PHY SCI</th>
<th>EST. FEES: $100</th>
</tr>
</thead>
</table>

**Prerequisites:** General Aircraft Maintenance I & II, Airframe I, II, & III  
**Concurrent Enrollment:** N/A  
**Certifications:**  
**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.

### THREE YEAR AVIATION MAINTENANCE PATHWAY

#### YEAR 1

<table>
<thead>
<tr>
<th>Course</th>
<th>GRADES: 10-12</th>
<th>LENGTH: 1 Year</th>
<th>CREDITS: 1.0 CTE/ 1.0 MTH B</th>
<th>EST. FEES: $75</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Aircraft Maintenance I</td>
<td>10th-12th grade</td>
<td>This class is the foundation of the Aviation Maintenance program.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Aircraft Maintenance II</td>
<td>11th-12th grade</td>
<td>This course is a continuation of General Aircraft Maintenance I.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### YEAR 2

<table>
<thead>
<tr>
<th>Course</th>
<th>GRADES: 11-12</th>
<th>LENGTH: 1 Year</th>
<th>CREDITS: 1.0 CTE/ 1.0 MTH B</th>
<th>EST. FEES: $75</th>
</tr>
</thead>
<tbody>
<tr>
<td>Airframe I</td>
<td>11th-12th grade</td>
<td>Introduction to Airframe Studies.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Aircraft Maintenance II</td>
<td>11th-12th grade</td>
<td>Continuation of Aircraft structures and systems.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### SUMMER

<table>
<thead>
<tr>
<th>Course</th>
<th>GRADES: 12</th>
<th>LENGTH:</th>
<th>CREDITS:</th>
<th>EST. FEES:</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCELERATED Airframe II</td>
<td>12th grade</td>
<td>Semester 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCELERATED Airframe III</td>
<td>12th grade</td>
<td>Semester 2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### YEAR 3

<table>
<thead>
<tr>
<th>Course</th>
<th>GRADES: 12</th>
<th>LENGTH:</th>
<th>CREDITS:</th>
<th>EST. FEES:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Airframe IV</td>
<td>12th grade</td>
<td>Completion of the FAA required hours for Airframe education and exam preparation.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### GENERAL AIRCRAFT MAINTENANCE I

<table>
<thead>
<tr>
<th>GRADES: 10-12</th>
<th>LENGTH: 1 Year</th>
<th>CREDITS: 1.0 CTE/ 1.0 MTH B</th>
<th>EST. FEES: $75</th>
</tr>
</thead>
</table>

**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.

#### GENERAL AIRCRAFT MAINTENANCE II

<table>
<thead>
<tr>
<th>GRADES: 11-12</th>
<th>LENGTH: 1 Year</th>
<th>CREDITS: 1.0 CTE/ 1.0 MTH B</th>
<th>EST. FEES: $75</th>
</tr>
</thead>
</table>

**Prerequisites:** General Aircraft Maintenance I  
**Concurrent Enrollment:** N/A  
**Certifications:** Snap-on Multimeter  
**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.
## 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

- **Prerequisites:** General Aircraft Maintenance I & II  
- **Concurrent Enrollment:** N/A  
- **Certification:** Snap-on Torque and Snap-on Precision Measurement

**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

- **Prerequisites:** General Aircraft Maintenance I & II; Airframe I is recommended  
- **Concurrent Enrollment:** N/A  
- **Certifications:**

**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.

### AIRFRAME IV (SUMMER)

**Grades:** 12  
**Length:** 7.5 hrs/day, 20 days  
**Credits:** 0.5 CTE/ 0.5 PHY SCI  
**Est. Fees:** $100

- **Prerequisites:** General Aircraft Maintenance I & II, Airframe I, II, & III  
- **Concurrent Enrollment:** N/A  
- **Certifications:**

**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.
These courses are available to all Cherry Creek School District students, and take place in various locations. Registration process for CTE District course varies. Please see course description for more information.

ARTS & DESIGN

DIGITAL COMMERCIAL PHOTOGRAPHY

<table>
<thead>
<tr>
<th>GRADES: 10-12</th>
<th>LENGTH: 1 YEAR</th>
<th>CREDITS: 1.0 CTE</th>
<th>EST. FEES: $75</th>
</tr>
</thead>
</table>

LOCATION: CHERRY CREEK HIGH SCHOOL

This dynamic, hands-on, project-oriented photography class 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 and Lightroom. Students will explore career possibilities, develop a resume, and meet photographers, all while preparing for college and industry. The course will include understanding the commercial photography business, composition theory, digital ethics, and competitive events where students produce a portfolio and earn concurrent enrollment credit. If course is not offered at home high school, transportation is the responsibility of the student.

Day/Time: Cherry Creek High School, Monday – Friday, 7th Period

If course is available at home high school, follow home high school registration process. If not, complete the CTE Application.
### CAREER EXPLORATION

<table>
<thead>
<tr>
<th>GRADES: 11-12</th>
<th>LENGTH: 1 YEAR</th>
<th>CREDITS: 1.0 CTE</th>
<th>EST. FEES: $25</th>
</tr>
</thead>
</table>

**LOCATION:** Cherokee Trail, Eaglecrest, Overland and Smoky Hill

Career Exploration is a yearlong program designed to connect students with career pathways by partnering with businesses in the community. Through experiences including job readiness training, job tours, job shadowing, career days and internships, students will have the opportunity to explore career pathways and develop work readiness skills. Goals for the program include: placing students in career pathway experiences, preparing students for the workforce, locating entry level job opportunities, exposing students to post high school training in career interest areas, and partnership with Denver metro employers to provide work-ready employees. This course takes place during the regular school day at Cherokee Trail, Eaglecrest, Overland and Smoky Hill high schools. If course is not offered at home high school, transportation is the responsibility of the student.

To register for this course, complete the CTE Application.

### EXECUTIVE INTERNSHIP

<table>
<thead>
<tr>
<th>GRADES: 12</th>
<th>LENGTH: SEE BELOW</th>
<th>CREDITS: 1.0 CTE</th>
<th>EST. FEES: $15</th>
</tr>
</thead>
</table>

**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. Students should be above average academically and/or especially talented in a career area they wish to pursue. 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, information meeting attendance, and an interview are required.**

To register for an internship, complete the CTE Application. Upon receipt of your confirmation email, you will be directed to the Internship Application.

### CAREERWISE APPRENTICESHIP

<table>
<thead>
<tr>
<th>GRADES: 11-12</th>
<th>LENGTH: SEE BELOW</th>
<th>CREDITS: 1.0 CTE</th>
<th>EST. FEES: N/A</th>
</tr>
</thead>
</table>

**LENGTH:** HOURS VARY BY APPRENTICESHIP

Cherry Creek School District will work collaboratively with CareerWise Colorado and industry partner to create an apprenticeship program unique to individual student 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 student’s maturity, reliability, commitment, and graduation status. Transportation is the responsibility of the student. **This program is selective. Additional application materials, information meeting attendance, and an interview are required.**

To register for a CareerWise Apprenticeship, go to [www.careerwisecolorado.org](http://www.careerwisecolorado.org) to complete the application. Once approved through CareerWise, you will be contacted by CCSD Apprenticeship Coordinator to discuss next steps.
The Cosmetology program is a robust course that will prepare you to provide beauty services such as shampooing, cutting, coloring, styling, facials, manicures and pedicures. This program prepares students to pass the state-licensing exam given by the Colorado Barber/Cosmetology Board. To be considered for this program, you must attend a parent meeting and orientation in February. Transportation is the responsibility of the student. Course begins approximately August 13, 2020.

The $65.00 fee includes: cosmetology kit (used 1st and 2nd year), uniform and consumables.

Mandatory Student/Parent Site Visit and Orientation at Colorado’s Finest High School of Choice (must attend one):
  February 3, 2020 from 4:30 – 5:30pm
  February 26, 2020 from 4:30 – 5:30pm

Anticipated session times:
  Monday – Friday: Morning Session 7:30 – 11:30am
  Monday – Friday: Afternoon Session 12:00 – 4:00pm

To register for this course, complete the CTE Application.

Cosmetology II is a certificate program requiring 1,500 hours which equals 50 credits in cosmetology, hairstyling, nail technology and esthetics. Students will learn theory, practice in hair care, cuts, color, perms, styling, nail technology and skin care. Students are prepared for supervised clinical practice and entry-level jobs in the cosmetology field. Students also explore career pathways, post-secondary options and career research techniques such as application preparation, resume/letter writing and interviewing process. Transportation is the responsibility of the student. Course begins approximately August 13, 2020. Pre-requisite: Cosmetology I.

The $75.00 fee includes: consumables.

Anticipated session times:
  Monday – Friday: Morning Session 7:30 – 11:30am
  Monday – Friday: Afternoon Session 12:00 – 4:00pm

To register for this course, complete the CTE Application.
**ESTHETICS**

<table>
<thead>
<tr>
<th>GRADES: 11-12</th>
<th>LENGTH: 1 YEAR</th>
<th>CREDITS: 5 CTE</th>
<th>EST. FEES: $350.00</th>
</tr>
</thead>
</table>

**LOCATION: COLORADO’S FINEST HIGH SCHOOL OF CHOICE**

Estheticians, also called Esthiologists or skin-care specialists, strive to make their clients to 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; 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 in February. Transportation is the responsibility of the student. Course begins approximately August 13, 2020.

The $350.00 fee includes: esthetics kit, uniform and consumables.

Mandatory Student/Parent Site Visit and Orientation at Colorado’s Finest High School of Choice (must attend one):
- February 3, 2020 from 4:30 – 5:30pm
- February 26, 2020 from 4:30 – 5:30pm

Anticipated session times:
- Monday – Friday: Morning Session 7:30 – 11:00am
- Monday – Friday: Afternoon Session 12:00 – 3:30pm

To register for this course, complete the CTE Application.
### INTRODUCTION TO CRIMINAL JUSTICE

<table>
<thead>
<tr>
<th>GRADES: 11-12</th>
<th>LENGTH: 1 YEAR</th>
<th>CREDITS: 1.0 CTE</th>
<th>EST. FEES: $20</th>
</tr>
</thead>
</table>

**LOCATION: CHEROKEE TRAIL, CHERRY CREEK, GRANDVIEW, OVERLAND AND SMOKY HILL**

This Criminal Justice 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. Field trips to local criminal justice and law enforcement agencies support student learning experiences. This course aligns with Colorado Community College Intro to Criminal Justice (CRJ 110). Course offered at: Cherokee Trail, Cherry Creek, Grandview, Overland and Smoky Hill. If course is not offered at home high school, transportation is the responsibility of the student.

If course is available at home high school, follow home high school registration process. If not, complete the CTE Application.

### CRIME SCIENCE

<table>
<thead>
<tr>
<th>GRADES: 11-12</th>
<th>LENGTH: 1 YEAR</th>
<th>CREDITS: 1.0 CTE</th>
<th>EST. FEES: $20</th>
</tr>
</thead>
</table>

**LOCATION: CHEROKEE TRAIL, GRANDVIEW, OVERLAND AND SMOKY HILL**

This Criminal Justice course will concentrate on forensics, crime scene, investigative techniques, and law enforcement in general. It will also explore how constitutional and procedural law assists the criminal investigation process. The course features basic procedures in crime scene management to include photography and preparing initial reports and sketches, processing evidence, and related criminalistics procedures. It covers interviewing suspects, witnesses, and victims, including the recording of identifications and descriptions. Field trip to local criminal justice agencies will support student learning experiences. This course aligns with Colorado Community College Criminal Investigation (CRJ 127). Course offered at: Cherokee Trail, Grandview, Overland and Smoky Hill. If course is not offered at home high school, transportation is the responsibility of the student.

If course is available at home high school, follow home high school registration process. If not, complete the CTE Application.
HEALTH AND WELLNESS

EPIC MEDICAL CAREERS

| GRADES: 11-12 | LENGTH: SEMESTER | CREDITS: 0.5 CTE | EST. FEES: $40 |

LOCATION: CHERRY CREEK HIGH SCHOOL, OVERLAND AND SMOKY HILL

In the Epic Medical Careers class, students are introduced to career opportunities through a unique series of lectures by medical professionals. Students will hear from professionals from the medical community such as a plastic surgeon, bio-chemical warfare emergency room doctor, a nurse at Denver Health discussing infectious diseases, a genetic counselor, a pediatrician, X-Ray and optical technicians, as well as professionals from the business (medical sales) and the legal (a lawyer who represents doctors) careers related to medicine. Students are presented information about each specialty along with the education and other requirements for the many career options. 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 a cadaver lab, to which students will see the human body and internal organs. Course offered at: Cherry Creek, Overland and Smoky Hill. If course is not offered at home high school, transportation is the responsibility of the student.

If course is available at home high school, follow home high school registration process. If not, complete the CTE Application.

TRANSPORTATION

AVIATION FUNDAMENTALS

| GRADES: 11-12 | LENGTH: 1 YEAR | CREDITS: 1.0 CTE | EST. FEES: $150 |

LOCATION: METROPOLITAN STATE UNIVERSITY SOUTH CAMPUS

Aviation Fundamentals, in partnership with Metropolitan State University Aviation and Aerospace, 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. This college level course is taught by a MSU professor and prepares the student for taking the Federal Aviation Administration Private Pilot Knowledge examination. Students will be enrolled in the 6 credit hour MSU course Aviation Fundamentals (AES 1100). To be considered for this program, you must attend a parent meeting and orientation in February. Transportation is the responsibility of the student.

Additional application materials, program orientation and qualifying scores are required.

Mandatory Student/Parent Open House at MSU South Campus (must attend one):
   February 13, 2020 at 6:00pm
   February 26, 2020 at 6:00pm

Anticipated session times:
   Monday, Wednesday, Friday: 2:00 – 3:30pm

To register for this course, complete the CTE Application.