

SUMMIT
HIGH SCHOOL
COURSE CATALOG 2026-2027

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Graduation Requirements

To receive a Summit High School diploma, students must earn a minimum of 50 credits.

TOTAL REQUIREMENTS	50 TOTAL CREDITS
English	**8 total credits**
English 1	2 credits
English 2	2 credits
English 3 or IB English 1	2 credits
CMC English 4, CMC Composition or IB English 2	2 credits
Math*	**6 total credits**
Science	**6 total credits**
EPS	2 credits
Chemistry	2 credits
Biology, IB Biology, or Other	2 credits
Humanities	**6 total credits**
Civics & Economics	2 credits
World History & Geography or AP World History	2 credits
US History or IB History of the Americas 1	2 credits
World Language	**4 total credits**
Health and Physical Education	**3 total credits**
PE 1	1 credit
PE 2	1 credit
Health	1 credit
CTE / Fine Arts	**4 total credits**
Pathway to Profile	**3 total credits**
Electives	**10 total credits**

**All 4-year colleges/universities require 8 semesters of Math for admission.*

Summit High School partners with Colorado Mountain College (CMC) to offer concurrent enrollment opportunities that allow qualified students to earn tuition-free college credit while in high school.

Depending on the course, credits may:
-Fulfill Colorado's Guaranteed General Education Transfer (GT) requirements
-Apply toward a degree at CMC and generally transfer to comparable programs at other Colorado colleges
-Count toward a CMC-specific certificate or degree.

IBDP Requirements

IBDP (International Baccalaureate Diploma Program) requires these 3 essential elements:
» Theory of Knowledge (TOK)
» Extended Essay
» Creativity, Activity, Service (CAS; click here to read more on the IB website)

IBDP students must also choose 1 course from each of the groups below:
» Each course may only count for 1 group, even if it's listed as an option for multiple groups.
» Students must choose a total of **either** 3 HL and 3 SL courses, **or** 4 HL and 2 SL courses. (HL = Higher Level; SL = Standard Level)

Group and course options	Recommended grade
Group 1: Language and Literature	
IBDP English 1 HL	11th grade
IBDP English 2 HL	12th grade
Group 2: Language Acquisition	
IBDP French 1 SL	11th grade
IBDP Spanish 1 SL	11th grade
IBDP Spanish 1 HL	11th grade
IBDP French 2 SL	12th grade
IBDP Spanish 2 SL	12th grade
IBDP Spanish 2 HL	12th grade
Group 3: Individuals and Societies	
IBDP History of the Americas (HOTA) 1 HL	11th grade
IBDP History of the Americas (HOTA) 2 HL	12th grade
IBDP Psychology SL (1 year)	11th or 12th grade
Group 4: Experimental Sciences	
IBDP Biology 1 HL	11th grade
IBDP Biology 2 HL	12th grade
IBDP ESS SL (1 year)	11th or 12th grade
Group 5: Mathematics	
IBDP Math Applications 1 SL	11th grade
IBDP Math Analysis 1 SL	11th grade
IBDP Math Applications 2 SL	12th grade
IBDP Math Analysis 2 SL	12th grade
Group 6: The Arts	
IBDP Music SL (1 year)	11th or 12th grade
IBDP Visual Art SL	11th or 12th grade
Students may also choose a second class from Groups 2–4 to count for Group 6.	

Dual Language Certificate Requirements

Dual Language Certificate requires the following:
» 20 hours of community service using Spanish
» AVANT STAMP Test (taken in the fall semester of 12th grade)
» Reflection paper based on Service Learning Project, Third Language Exposure, or Spanish Immersion Experience

Dual Language Certificate students must also take the following courses:

Course	Recommended grade
DL Civics & Economics	9th grade
DL Spanish 1	9th grade
DL Spanish 2	10th grade
IBDP Spanish 1 HL	11th grade
IBDP Spanish 2 HL	12th grade
Additional semester DL elective #1	10th–12th grade
Additional semester DL elective #2	10th–12th grade

List of All Courses

Core Courses

ENGLISH LANGUAGE ARTS
- English 1
- English 2
- English 3
- CMC English 4
- CMC Composition
- IBDP English 1 HL
- IBDP English 2 HL

MATH
- Pre-Algebra
- Algebra 1
- Geometry
- Algebra 2
- CMC Developmental Math
- PreCalc/Trig
- IBDP Math Analysis and Approaches Year 1 +2 SL
- IBDP Math Applications and Interpretations 1+2 SL
- CMC Math for Liberal Arts
- CMC College Algebra
- CMC Calculus 2
- CMC Statistics

SCIENCE
- Earth & Physical Science
- Chemistry
- Biology
- IBDP Biology YR 1 HL
- IBDP Biology YR 2 HL
- IBDP Environmental Systems & Societies SL
- CMC Environmental Science
- CMC Biology
- CMC Chemistry
- Introduction to Physics
- Advanced Physics
- Anatomy & Physiology

HUMANITIES
- Civics & Economics
- AP Modern World History
- World History & Geography
- US History
- IBDP History of the Americas 1 + 2 HL
- CMC General Psychology
- CMC World Geography
- CMC Intro to Sociology
- Personal Finance
- IBDP Psychology SL
- IBDP TOK YR 1 & 2

WORLD LANGUAGE
- French 1
- French 2
- French 3
- IBDP French 1 SL
- IBDP French 2 SL
- Spanish 1
- Spanish 2
- Spanish 3
- Heritage 1/2
- IBDP Spanish 1 SL
- IBDP Spanish 2 SL
- IBDP Spanish 1 HL
- IBDP Spanish 2 HL
- Dual Language 1/2
- Dual Language Latin American Studies

HUMAN PERFORMANCE AND PHYSICAL EDUCATION
- PE1
- PE 2
- Health
- Weight Training 1
- Weight Training 2
- CMC Weight Training 1
- CMC Weight Training 2
- Alpine Conditioning

STUDENT SUPPORT SERVICES: SPECIAL EDUCATION
- Academic Intervention
- Academic Intervention Literacy
- Academic Intervention MYP Project
- Job Readiness
- Life Skills
- Transitional Math

STUDENT SUPPORT SERVICES
- English Language Development
- Pathway to the Profile
- CuKuMu
- Work-Based Learning



PATHWAY:
Advanced Manufacturing & Engineering

ENGINEERING
- Introduction to Engineering
- Principles of Engineering
- Robotics and Automated Systems
- Drafting and Design 1
- Drafting and Design 2



PATHWAY:
Business Marketing & Entrepreneurship

BUSINESS & MARKETING
- Intro to Business
- Business Innovation + Entreprenuership

MULTIMEDIA PRODUCTION
- Graphic Design 1
- Graphic Design 2
- Intro to Video Production
- Broadcast Production
- CMC Audio/Video Production 2
- Yearbook
- Film Analysis

CULINARY & HOSPITALITY
- Intro to Hospitality
- Prostart 1
- Prostart 2
- Prostart Youth Apprenticeship
- Prostart Hospitality & Tourism

List of All Courses (cont'd)

PERFORMING ARTS
- Drama
- Theater Technology
- Concert Choir
- Summit Singers
- Piano
- Music Production 1 + 2
- Orchestra
- Band
- Gig Band
- IBDP Music SL
- Guitar
- CMC World Music

VISUAL ARTS
- Drawing 1
- Drawing 2
- Painting 1
- Painting 2
- Ceramics 1
- Ceramics 2
- Metals (Jewelry)
- Photography 1
- Photography 2

PATHWAY: Computer Science

SOFTWARE DESIGN
- Introduction to Computer Science
- AP Computer Science Principles
- Game Design

PATHWAY: Health Science

HEALTH SCIENCE
- Health Science 1
- Health Science 2
- CMC Medical Terminology
- CMC Emergency Medical Responder

ATHLETIC TRAINING AND SPORTS MEDICINE
- Athletic Training 1
- Athletic Training 2
- CMC Exercise Physiology
- CMC Human Nutrition

PATHWAY: Human Services & Education

EDUCATION
- CMC Introduction to Education
- CMC Multicultural Education

EARLY CHILDHOOD
- CMC Early Childhood Education I
- CMC Early Childhood Education 2
- CMC Early Childhood Education 3

LAW ENFORCEMENT
- Criminal Justice

PATHWAY: Natural Resources

NATURAL RESOURCES
- Stream Ecology

PATHWAY: Skilled Trades

CONSTRUCTION TECH
- Careers in Construction Tech 1 (Dual Language)
- Careers in Construction Tech 2

WELDING
- Welding 1 (Dual Language)
- CMC Welding 2
- CMC Welding 3
- CMC Welding 4 (Capstone)

PATHWAY: Outdoor Leadership

OUTDOOR EDUCATION AND LEADERSHIP
- Exploration of Outdoor Recreation
- Wilderness First Aid
- Outdoor Leadership

SKI TECH AND BIKE TECH
- Ski/Snowboard Technician 1
- Ski/Snowboard Business & Manufacturing
- Bike Technician 1
- Bike Technician 2

English Language Arts

English courses at Summit High School empower students to think critically, communicate effectively, and engage with diverse voices across literature and media. Students build strong foundations in reading, writing, speaking, and research through a progression from **English 1 and 2** to upper-level choices such as **English 3, CMC Composition, and IB Literature**. Advanced learners can earn **college credit through Colorado Mountain College** or pursue the **International Baccalaureate Diploma Programme**, which emphasizes global perspectives and analytical writing. Each pathway—college-bound, career-focused, or exploratory—strengthens essential skills for success beyond high school. Students who enjoy creative expression, argumentation, or discussion will find courses that connect language with purpose, identity, and the world around them.

Legend: 9 Recommended grade (9th–12th) 2s Duration (semesters) Ⓡ Required for SHS graduation R-IB Required for IBDP $ Fee

Course name	Credits	Prerequisites	Description
English 1 9 2s Ⓡ	2 SHS credits	8th Grade English	English 1 introduces students to high-school-level reading, writing, and communication through classic and contemporary literature. Students explore short stories, memoirs, poetry, nonfiction, and drama while developing foundational skills in analysis, argument, and expression. Emphasis is placed on clear writing, effective speaking, and critical thinking.
English 2 10 2s Ⓡ	2 SHS credits	9th Grade English	English 2 builds upon English 1 to deepen analysis and personal and cultural understanding. Students examine global perspectives through various contemporary and classic texts and refine their skills in literary interpretation, research, analysis, and written argument.
English 3 11 2s Ⓡ	2 SHS credits	10th Grade English	English 3 focuses on classic and contemporary literature and how stories reflect and shape society. Students will strengthen their skills in grammar, reading, verbal communication, research and writing.
CMC English 4 12 2s	2 SHS credits 6 possible CMC credits	English 3; Semester 1 CMC grade C or higher for continuation	This senior-level course develops practical and academic literacy through college-aligned reading, writing, and discussion. Students engage in reflective and technical writing tied to real-world applications. *CMC Courses: ENG-1000 Academic Literacy & Success (3 cr) and ENG-1015 Technical English & Communication (3 cr). These courses are generally transferable.*
CMC Composition I & II 12 2s	2 SHS credits 6 CMC credits	English 3 with 2.5+ GPA; qualifying SAT/PSAT ERW score, and teacher recommendation	A college-level writing sequence emphasizing clarity, logic, and research. Students complete analytical, persuasive, and research-based essays that meet Colorado Guaranteed Transfer requirements. *CMC Courses: ENG-1021 English Composition I (3 cr) and ENG-1022 English Composition II (3 cr), both are Guaranteed Transfer courses.*

English Language Arts (cont'd)

Legend: 9 Recommended grade (9th–12th) 2s Duration (semesters) Ⓡ Required for SHS graduation R-IB Required for IBDP $ Fee

Course name	Credits	Prerequisites	Description
IBDP English 1 HL 11 2s R-IB *CMC enrollment option for Semester 2*	2 SHS credits, 3 CMC credits	English 2	Year 1 of IB Higher Level English introduces global literature and critical analysis. Students study diverse authors, text types, and cultures through discussion, creative writing, and formal essays. Students learn to appreciate the artistry of literature, and develop the ability to reflect critically on their reading, presenting literary analysis through both oral and written communication. Students begin to prepare for IB internal and external assessments. *Concurrent enrollment is available. CMC Course: LIT-1015 (3 cr), a Guaranteed Transfer course.*
IBDP English 2 HL 12 2s R-IB $ *Fee: $119 for IBDP Exam*	2 SHS credits, 6 CMC credits	IBDP English 1 HL	Year 2 of IB Higher Level English continues to build on advanced skills in literary analysis, reflection, research, and communication. Students complete IB internal and external assessments while earning CMC college credit for Composition I & II. *CMC Courses: ENG-1021 English Composition I (3 cr) and ENG-1022 English Composition II (3 cr), both are Guaranteed Transfer courses.*

What do students say?

English 1

"*This class helped me feel more confident in my writing which translates to other classes and also feeling more prepared for the real world.*"

IBDP English 1 HL

"*At first, the reading load in IB DP English felt intense, but it taught me how to manage my time and analyze literature in a way that actually made sense. By the end of the course, I was a stronger writer and speaker—and I earned college credit along the way.*"

IBDP English HL 2

"*IB DP English isn't just about reading books—it's about learning how to talk about ideas. The class discussions helped me see texts from different perspectives, and I feel much more prepared for college-level writing and analysis.*"

English 2

"*There was some challenging parts like with strict due dates, but the projects were interesting and engaging overall. There was a lot of group work, and if it was independent we would still be allowed to talk with friends while we did it.*"

English 3

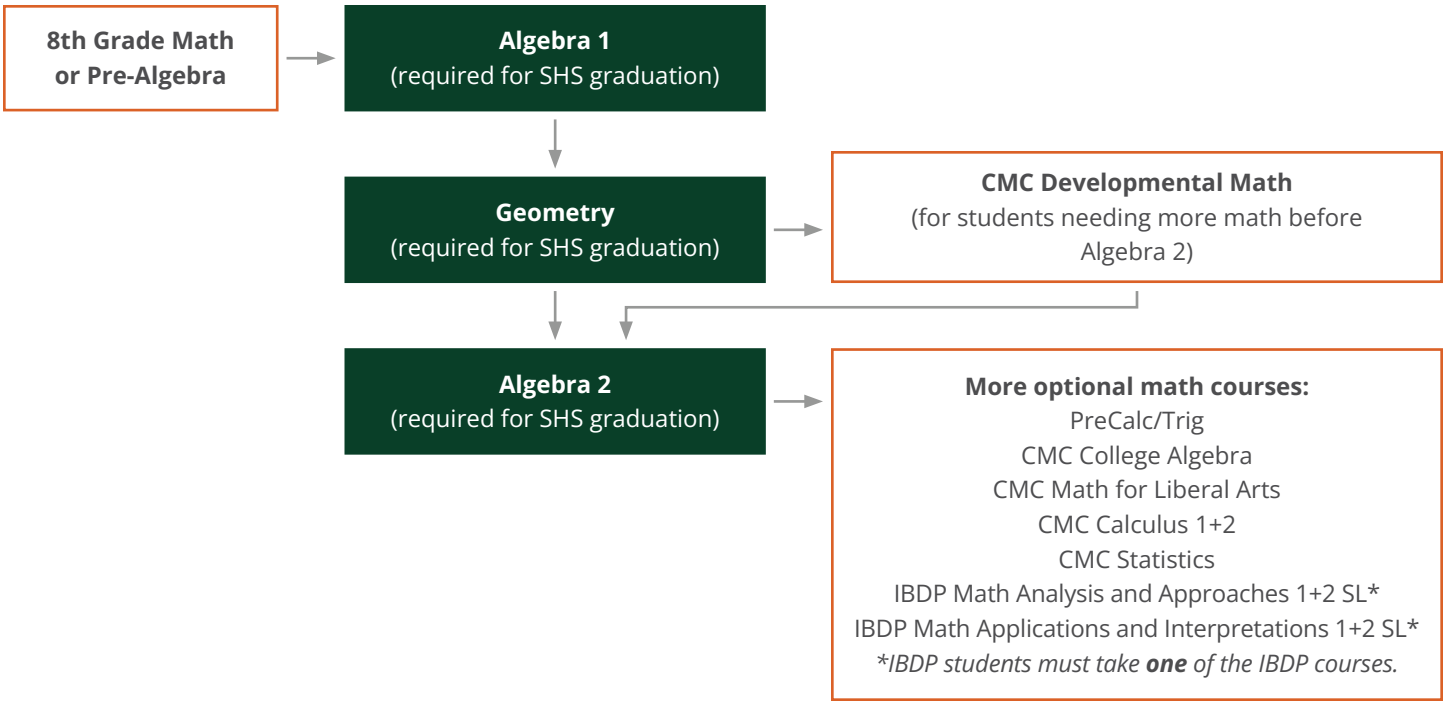
"*I learned how to get better at working under time requirements and planing my time accordingly.*"

CMC Comp 1 & 2

"*I feel it has prepared me for my college life by helping with study habits related to reading. I would recommend this class to others because you get to see what a real college class looks like in high school and it will better prepare you for your future.*"

Math

Mathematics courses at Summit High School prepare students to **reason quantitatively, solve problems, and apply mathematical thinking across disciplines**. The sequence from Algebra 1 through Pre-Calculus establishes a strong foundation in mathematics. Advanced learners can earn college credit through Colorado Mountain College or challenge themselves in the International Baccalaureate Diploma Programme.



Legend: 9 Recommended grade (9th–12th) 2s Duration (semesters) Ⓡ Required for SHS graduation R-IB Required for IBDP $ Fee

Course name	Credits	Prerequisites	Description
Pre-Algebra 9 2s	2 SHS credits	Staff recommendation	A bridge course designed to strengthen numerical fluency and problem-solving with 1 variable. Students practice problem-solving, graphing, and proportional thinking to prepare for Algebra 1.
Algebra 1 9 2s Ⓡ	2 SHS credits	8th Grade Math or Pre-Algebra	Examines variables, equations, functions, and graphing with emphasis on real-world applications and logical reasoning. Students develop skills necessary for geometry and algebraic modeling.
Geometry 9-10 2s Ⓡ	2 SHS credits	Algebra 1	Focuses on logical proof, properties of figures, and spatial reasoning. Students apply formulas for area, volume, and trigonometric relationships to solve real-world geometry problems.

Math (cont'd)

Legend: 9 Recommended grade (9th–12th) 2s Duration (semesters) Ⓡ Required for SHS graduation R-IB Required for IBDP $ Fee

Course name	Credits	Prerequisites	Description
Algebra 2 10-11 2s Ⓡ	2 SHS credits	Geometry	Students explore and analyze key features for a variety of functions, including quadratic, exponential, logarithmic, polynomial, and rational functions.
CMC Developmental Math 12 2s	2 SHS credits, 8 CMC developmental non-degree credits	Teacher recommendation	Two semester sequence (Quantitative and Algebraic Literacy) that strengthens college math readiness. Covers number sense, algebraic thinking, and real-world applications. *CMC Courses: MAT-0250 Quantitative Literacy (4 dev cr) and MAT-0350 Algebraic Literacy (4 dev cr). These courses prepare students for college-level career and introductory math courses. The credits are not transferable.*
Pre-Calculus / Trigonometry 11-12 2s	2 SHS credits	Algebra 2	Prepares students for Calculus and higher-level math by integrating algebraic, geometric, and trigonometric concepts. Graphing calculator use is recommended.
IBDP Math Analysis and Approaches SL 1+2 11-12 4s R-IB *CMC enrollment option for Year 2. Not required for IB if "Applications and Interpretations" is taken instead*	4 SHS credits, 5 CMC credits	Algebra 2	Rigorous course in algebra, functions, statisics, trigonometry, probability, and calculus for students interested in mathematics, science, or engineering. Emphasizes proof, precision, and independent investigation. Students will be required to complete an independent project. *Concurrent enrollment is available. CMC Course: MAT-2410 Calculus I (5 cr), Guaranteed Transfer course.*
IBDP Math Applications and Interpretations SL 1+2 11-12 4s R-IB *Not required for IB if "Analysis and Approaches" is taken instead*	4 SHS credits, potential for college credit depending on DP Exam score	Algebra 2	Focuses on real-world mathematics applications including statistics, geometry, and algebriac modeling. Differential and integral calculus are also introduced. Students complete an independent project and prepare for the IB SL exam.
CMC College Algebra 12 2s *12th grade has priority. CMC enrollment after successful Sem 1*	2 SHS credits, 4 CMC credits	PSAT or SAT Math score > 500	Reviews equations, functions, and systems with focus on polynomial, logarithmic, and exponential relationships. Serves as a college-level gateway math course. *CMC Course: MAT-1340 College Algebra (4 cr), Guaranteed Transfer course.*
CMC Math for Liberal Arts 12 2s *CMC enrollment after successful Sem 1*	2 SHS credits, 4 CMC credits	Algebra 2, PSAT or SAT Math score > 500 or approval	Explores mathematics in society with topics in logic, probability, statistics, and financial literacy. Ideal for students pursuing liberal arts or education fields. *CMC Course: MAT-1240 Mathematics for the Liberal Arts (4 cr), Guaranteed Transfer course.*

Math (cont'd)

Legend: 9 Recommended grade (9th–12th) 2s Duration (semesters) Ⓡ Required for SHS graduation R-IB Required for IBDP $ Fee

Course name	Credits	Prerequisites	Description
CMC Calculus 2 12 1s	1 SHS credit, 5 CMC credits	IBDP Math Analysis 2 SL; CMC MAT-2410	This is a college freshman second semester calculus course. Topics will include a continued study of differentiation and integration with emphasis on polar coordinates, vectors, and improper integrals. Infinite series will also be studied. Each student is required to have a graphing calculator. *CMC Course: MAT-2420 Calculus II (5 cr), Guaranteed Transfer course.*
CMC Statistics 12 1s	1 SHS credit, 3 CMC credits	Pre-calculus or Algebra 2	Introduces data analysis, probability, and statistical inference. Students apply concepts through projects and technology-based analysis. Graphing calculator required. *CMC Course: MAT-1260 Introduction to Statistics (3 cr), Guaranteed Transfer course.*

What do students say?

Geometry

"It was definitely challenging and made me think outside of the box to find the solution or a way to solve the problem. But it was kind of fun to do that, and the course isn't memorization heavy."

Pre-Calculus

"I feel more prepared for some college math courses because this class was a more challenging curriculum."

IBDP Math Analysis 2 SL

"This class is the first time I've ever felt academically challenged, it requires more effort and at home studying. It's a worthwhile class though, and I would suggest every kid to try to at least take this class as I find it extremely rewarding."

Algebra

"The class goes at a good pace and it does make a lot of sense once you get the hang of it. I learned more complex math questions and I gained a lot of new interesting information.

IBDP Math Applications 1 SL

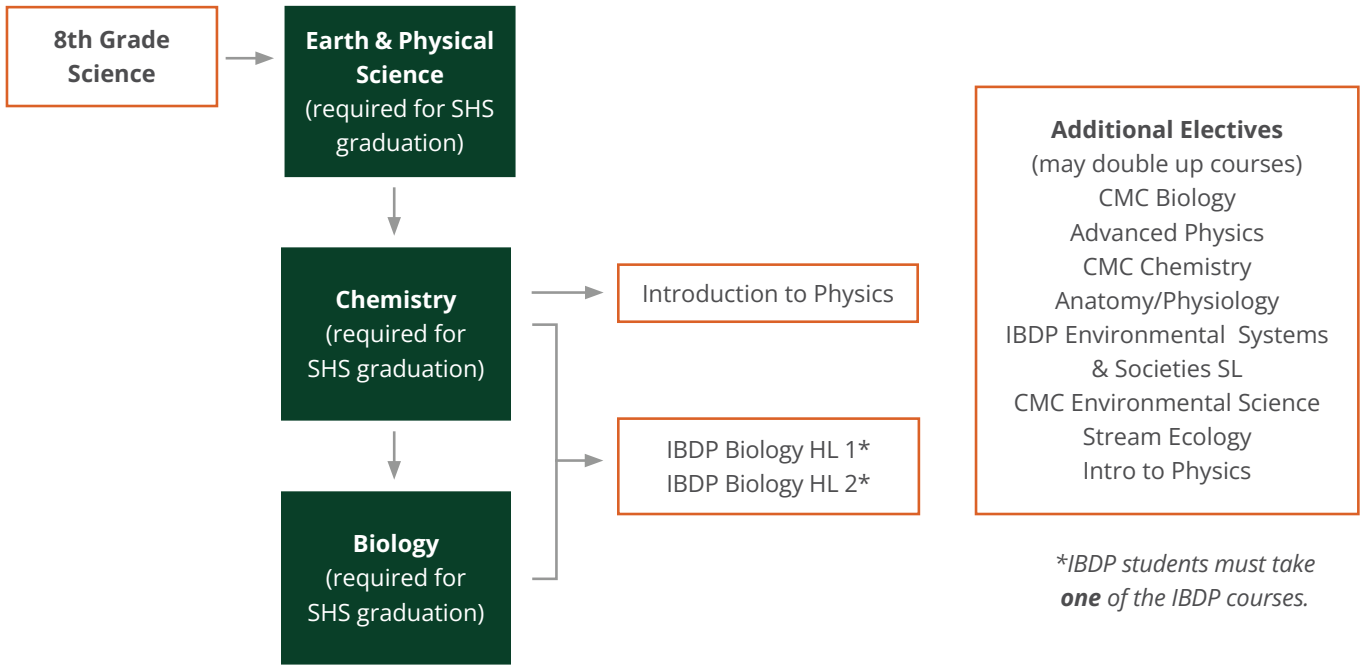
"It is a challenging math class, but there is a lot of support to help you succeed. It definitely made me stronger math-skill wise, and it got me college credits."

IBDP Math Applications 2 SL

"This class reviews a bit of everything and lets us explore and learn most units in math while still challenging us to go back and remember everything when applying those concepts with problems."

Science

Science courses at Summit High School inspire curiosity about the natural world and develop critical thinkers prepared to solve complex global challenges. From foundational courses like **Earth & Physical Science** to advanced studies in **IB Biology and Environmental Systems**, students engage in inquiry-based labs, data analysis, and collaborative problem-solving. Opportunities for **college credit through Colorado Mountain College** and **IB Diploma coursework** give students real-world experience in research and applied science. These courses support a variety of career pathways, including **Health Sciences, Engineering, Natural Resources, and Environmental Studies.**



Legend: 9 Recommended grade (9th–12th) 2s Duration (semesters) Ⓡ Required for SHS graduation R-IB Required for IBDP $ Fee

Course name	Credits	Prerequisites	Description
Earth & Physical Science 9 2s	2 SHS credits	8th Grade Science	This introductory course provides a foundation for all other sciences. Students study matter, motion, forces, and energy while investigating Earth systems, climate, and space. Labs and inquiry projects emphasize experimentation, measurement, and analysis.
Chemistry 10 2s Ⓡ	2 SHS credits	Earth & Physical Science	Students explore matter and energy through atomic theory, bonding, reactions, and thermodynamics. The course emphasizes laboratory techniques, safety, and quantitative reasoning to prepare students for Biology and upper-level sciences.
Biology 11 2s Ⓡ	2 SHS credits	Chemistry	A comprehensive study of life science including biochemistry, genetics, and ecology. Students conduct labs and explore current biological issues connecting science to everyday life.

Science (cont'd)

Legend: 9 Recommended grade (9th–12th) 2s Duration (semesters) Ⓡ Required for SHS graduation R-IB Required for IBDP $ Fee

Course name	Credits	Prerequisites	Description
IBDP Biology HL 1 11 2s R-IB	2 SHS credits	Chemistry	Year 1 of IB Higher Level Biology emphasizes cells, genetics, ecology, and physiology. Students design experiments, analyze data, and collaborate with peers to understand global biological systems.
IBDP Biology HL 2 12 2s R-IB	2 SHS credits 5 CMC credits	IB Biology HL 1	Students will complete the requirements for the HL DP Biology diploma/certificate. They are required to design and run their own experiment as part of the internal assessment process. Students will also prepare for the Spring IB external assessments. *Concurrent enrollment is available. CMC Course: BIO-1111 General College Biology with Lab: Cellular Principles I (5 cr), Guaranteed Transfer course.*
IBDP Environmental Systems & Societies SL 11-12 2s R-IB	2 SHS credits 4 CMC credits	EPS and Chemistry	An interdisciplinary course examining human impact on natural systems. Students study sustainability, climate, and environmental policy through labs and fieldwork, connecting science with global citizenship. *Concurrent enrollment is available. CMC Course: ENV-1111 Introduction to Environmental Science (4 cr), Guaranteed Transfer course.*
Anatomy & Physiology 11-12 1s	1 SHS credit	Chemistry	A lab-based study of human body systems and structure-function relationships. Includes dissections and physiological experiments for students interested in medicine, sports, or health careers.
CMC Environmental Science 11-12 2s *CMC enrollment after successful Sem 1*	2 SHS credits 4 CMC credits	EPS and Chemistry	Explores global environmental challenges and sustainability solutions. Students examine ecosystems, energy, and climate through local field research and lab projects. *CMC Course: ENV-1111 Introduction to Environmental Science (4 cr), Guaranteed Transfer course.*
Introduction to Physics 9-12 1s	1 SHS credit	EPS recommended	An algebra-based, hands-on exploration of motion, energy, waves, and electricity through modeling, experimentation, and engineering design to develop inquiry, analysis, and problem-solving skills.
Advanced Physics 11-12 2s	2 SHS credits	Chemistry and Geometry, Algebra 2 concurrent	An algebra-based exploration of Newtonian mechanics including motion, forces, energy, and vibrations modeled after AP Physics 1. Labs focus on experimentation, data collection, and mathematical modeling.
Stream Ecology 11-12 1s	1 SHS credit	Age 15+ or instructor approval; application required	A field- and lab-based study of riparian ecosystems, trout ecology, and conservation practices through real-world partnerships, ecological research, and the Trout in the Classroom program.

Science (cont'd)

Legend: 9 Recommended grade (9th–12th) 2s Duration (semesters) Ⓡ Required for SHS graduation R-IB Required for IBDP $ Fee

Course name	Credits	Prerequisites	Description
CMC Chemistry 11-12 2s *CMC enrollment after successful Sem 1*	2 SHS credits 5 CMC credits	Chemistry and Geometry	Focuses on basic chemistry and measurement, matter, chemical formulas, reactions and equations, stoichiometry. This course covers the development of atomic theory culminating in the use of quantum numbers to determine electron configurations of atoms, and the relationship of electron configuration to chemical bond theory. The course includes gases, liquids, and solids and problem-solving skills are emphasized through laboratory experiments. *(CHE 1111)*
CMC Biology 12 2s *CMC enrollment after successful Sem 1*	2 SHS credits 5 CMC credits	Chemistry and Biology or IBDP Biology HL1	Examines the fundamental molecular, cellular, and genetic principles characterizing plants and animals. Includes cell structure and function, and the metabolic processes of respiration and photosynthesis, as well as cell reproduction and basic concepts of heredity. The course includes laboratory experience. *CMC Course: BIO-1111 General College Biology with Lab: Cellular Principles I (5 cr), Guaranteed Transfer course.*

What do students say?

IBDP Biology 1 HL

"*Through this class, it has helped me feel more prepared for the future. In this class, you take a lot of notes and you end up getting really good at taking them fast and keeping them organized. This is a really good skill to have and you definitely won't forget it.*

IBDP Biology 1 HL

"*As someone who loves to take notes, I found this class to be super fun and engaging. It also includes a variety of labs that showcase a hands-on style of learning that mixed fun activities and challenging material! Although the class can be challenging in the amount of note-taking, it prepares you for college-level situations in the future."*

Stream Ecology

"*This is a very fun class, you get to spend a lot of your time outside which is nice, and it is an amazing chance to take a different and unique class at our high school for free."*

Earth and Physical Science

"*There are a few fun experiments like making solar cars and testing to see how far they go. You do spend a lot of time refining your CER writing skills as well."*

Anatomy and Physiology

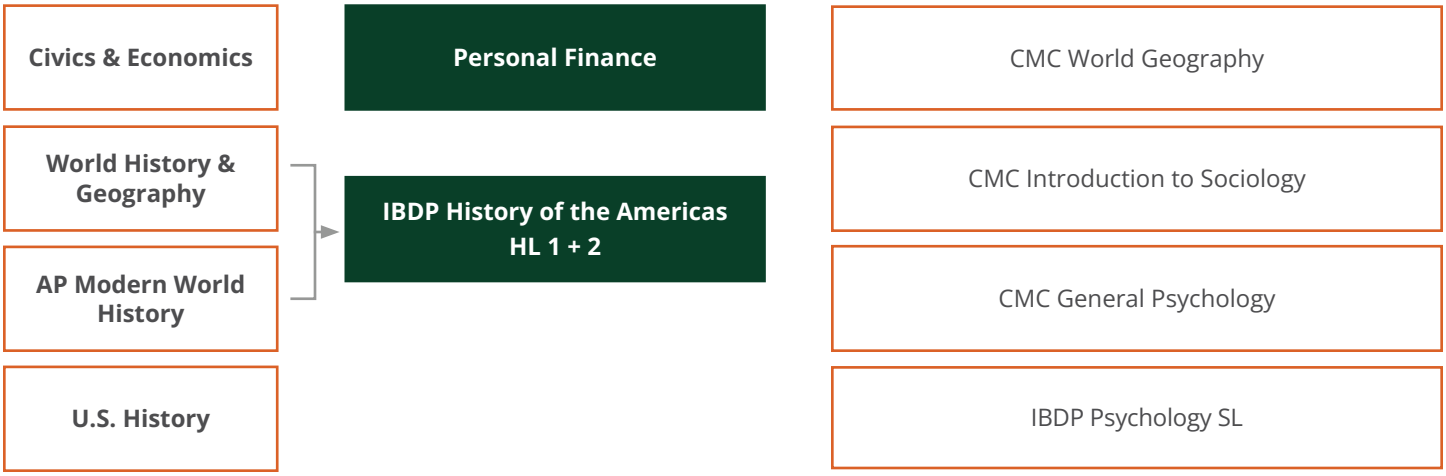
"*The class is very interesting and you learn about how the body functions, different types of cells, and you get to dissect something (my class was a dogfish shark)."*

Stream Ecology

"*Something I learned from taking this class is that trout are complicated, they can be more than just "not hungry" if I'm not catching any. Many factors play in. I also learned about many watersheds and human impacts to these rivers. Overall I feel more aware about the things happening around me that I can't always see."*

Humanities

Humanities courses at Summit High School develop globally aware, informed citizens who think critically about society, culture, and government. Students trace historical and contemporary issues through courses like **Civics & Economics, World History, U.S. History, and Personal Finance**, while advanced learners may pursue **CMC Psychology, CMC Sociology, CMC World Geography, IB History of the Americas or IB Psychology** for college credit. Coursework emphasizes analysis, argumentation, and civic responsibility, preparing students for leadership roles and informed participation in the world.



Legend: 9 Recommended grade (9th–12th) 2s Duration (semesters) Ⓡ Required for SHS graduation R-IB Required for IBDP $ Fee

Course name	Credits	Prerequisites	Description
Civics & Economics (Dual Language option) 9 2s Ⓡ	2 SHS credits	None	Covers the structure and functions of the U.S. government, political systems, and economic principles. Students explore democracy, elections, political ideologies, and the roles of the legislative, executive, and judicial branches, while also studying global democracies, market systems, and personal finance basics.
World History & Geography 10 2s Ⓡ	2 SHS credits	Civics & Economics	Explores global cultures and historical movements that transform the modern world. Students analyze how geography, belief systems, and global connections shape regions and civilizations.
AP Modern World History 10 2s Ⓡ	2 SHS credits	2.5 or higher in Civics & Economics (both semesters)	College-level study of world history from 1200 CE to the present. Emphasizes historical argumentation, source evaluation, and analytical writing aligned with AP standards.

Humanities (cont'd)

Legend: 9 Recommended grade (9th–12th) 2s Duration (semesters) Ⓡ Required for SHS graduation R-IB Required for IBDP $ Fee

Course name	Credits	Prerequisites	Description
US History 11 2s Ⓡ	2 SHS credits	AP World History or World History	Analyzes key political, social, and economic developments from Reconstruction to the present. Students will examine key events, people, and ideas that have influenced the nation's growth and its role in the world.
IBDP History of the Americas HL 1 + 2 11-12 4s R-IB	4 SHS credits 3 CMC credits	World History or AP World History	Two-year advanced history course analyzing major events in the Americas and the Cold War. Students complete IB assessments for college credit. *Concurrent enrollment is available. CMC Course: HIS-1220 US History Since the Civil War (3 cr), Guaranteed Transfer course.*
Personal Finance 11-12 1s	1 SHS credit	None	Practical course covering budgeting, saving, credit, investing, home-buying process, retirement, taxes, and insurance. Students develop real-life financial plans using simulations and decision-making strategies.
CMC World Geography 11-12 1s	1 SHS credit 3 CMC credits	Qualifying ERW score	Introduces students to world regional geography through the study of human, cultural, physical, and environmental systems. Students analyze how geographic factors shape populations, development, and global interactions using the five fundamental themes of geography. *CMC Course: GEO-1005 World Regional Geography (3 cr), Guaranteed Transfer course.*
CMC Introduction to Sociology 11-12 1s	1 SHS credit 3 CMC credits	Qualifying ERW score	Introduces students to the study of human social behavior through core sociological concepts, theories, and research methods. Topics include culture, socialization, social structure, group dynamics, deviance, inequality, and social class. Students explore how societies function and how social forces shape individual experiences. *CMC Course: SOC-1001 Introduction to Sociology I (3 cr), Guaranteed Transfer course.*
CMC General Psychology 11-12 1s	1 SHS credit 3 CMC credits	Qualifying ERW score	Introduces psychology as the study of human behavior and mental processes. Students explore brain function, motivation, learning, and social interaction. *CMC Course: PSY-1001 General Psychology II (3 cr), Guaranteed Transfer course.*
IBDP Psychology SL 11-12 2s $ *IB Exam Fee*	2 SHS credits 3 CMC credits	Qualifying ERW score	Examines biological, cognitive, and sociocultural influences on behavior through experiments and case studies. Students complete IB assessments for college credit. *Concurrent enrollment is available in the first semester.CMC Course: PSY-1001 General Psychology II (3 cr), Guaranteed Transfer course.*

Humanities (cont'd)

Legend: 9 Recommended grade (9th–12th) 2s Duration (semesters) Ⓡ Required for SHS graduation R-IB Required for IBDP $ Fee

Course name	Credits	Prerequisites	Description
IBDP Theory of Knowledge 11-12 2s	2 SHS credits	None	An interdisciplinary IB course that develops critical and analytical thinking about how knowledge is constructed across disciplines through discussion, analysis, and argument, emphasizing reasoning and inquiry skills. This class directly supports the college preparatory and DP Pathways, with an additional connection to pre-law.

What do students say?

US History

"Other students should know that the class is a lot of fun! The topics that are covered have been really interesting so far, and there have been fun projects (some of which involve art, for all of you who like to draw). There is sometimes group work, but you get to choose your partners. Also sometimes presentations, but mostly with partners."

World History and Geography

"This class is super fun and interesting! I love Ms. Smith's enthusiasm to teach us and have conversations with her students about the topics presented."

IBDP TOK

"This class changes the way you think about everything. We spend a lot of time dissecting things we consider to be facts through discussions. It has allowed me to learn more about how I think and how to become a more informed global citizen. The two main assignments are an exhibition essay and an external essay that stretch how you think and write."

CMC Geography

"I learned to see other perspectives. I also learned where countries are in the world and why it is so hard for developing countries to grow. "

AP Modern World History

"I gained more knowledge on history, and also I got better at note-taking."

Civics and Economics (DL option)

"In my opinion, this is a class that helps you learn about things happening in the country and keeps you informed about current events. They cover many important topics, so if you're someone who likes to know what's going on around you and in your country, this class might be the right one for you."

Personal Finance

"It is VERY helpful for every career path you can ever choose. This is a necessity, and at some point in your high school career everyone should take this at least once."

Personal Finance

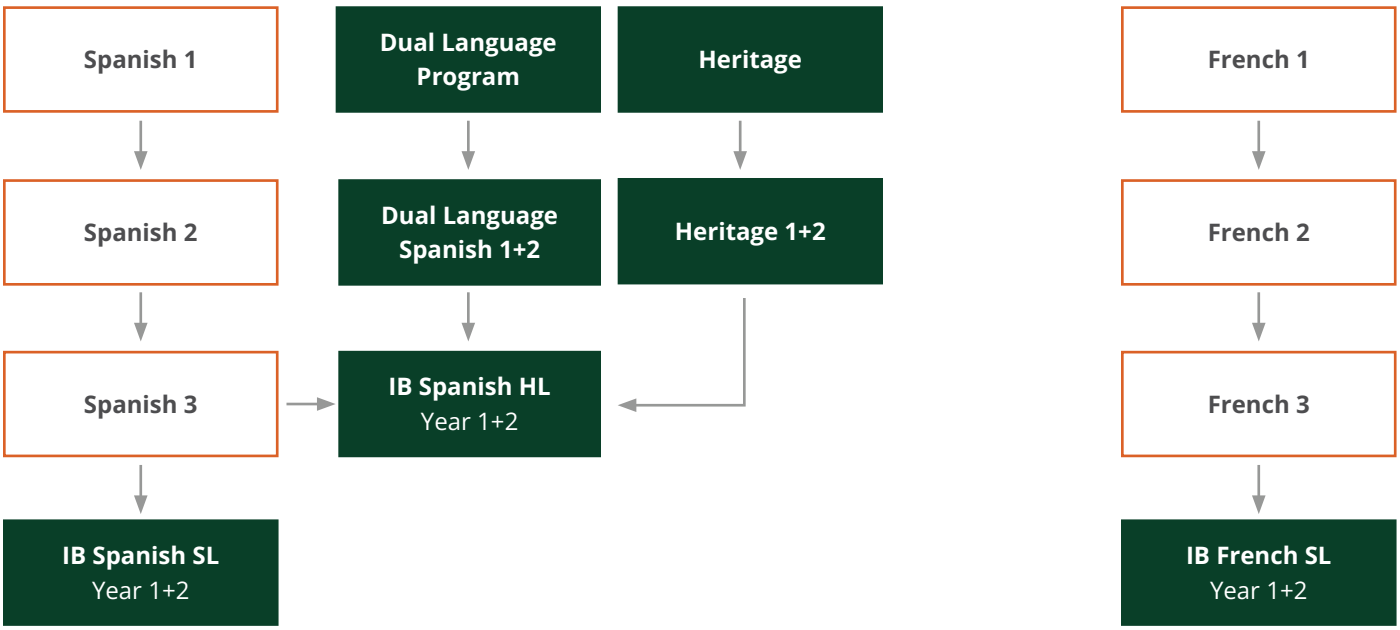
"I took this class because I wanted to know more about the finance before going to college and being able to understand it more before going to college."

CMC Psychology

"I feel more prepared for college, I know what I want to major in and I know what career I would like to go into. CMC Psychology helped build my interest and figure out what career I would enjoy in the future."

World Language

World Language courses at Summit High School prepare students to communicate across cultures and build global awareness. Our language program emphasizes real-world communication, cultural literacy, and proficiency in reading, writing, listening, and speaking. Students progress from **Spanish 1 through IBDP Spanish**, with opportunities to challenge themselves in the **International Baccalaureate Diploma Programme**. Courses immerse learners in authentic materials, conversations, and projects that connect language study to travel, business, and community engagement.



IBDP students must take **one of the IBDP courses.*

Legend: 9 Recommended grade (9th–12th) 2s Duration (semesters) Ⓡ Required for SHS graduation R-IB Required for IBDP $ Fee

Course name	Credits	Prerequisites	Description
French 1 9-12 2s	2 SHS credits	None	French I develops students' listening, speaking, reading, and writing skills through comprehensible input strategies for basic communication. Students acquire vocabulary and improve pronunciation while exploring the cultures of the francophone world. The course is designed for beginners and aims for proficiency at the Novice Low to Mid level.
French 2 9-12 2s	2 SHS credits	French 1 or 3 years of middle school French	In French II students develop linguistic competence through comprehensible input, engaging with authentic texts, stories, and interactive activities. Emphasis is placed on listening, speaking, reading, and writing in context. Students explore cultural perspectives of francophone communities, fostering intercultural awareness and global-mindedness. The course is designed to progress students to the Intermediate level of proficiency.

World Language (cont'd)

Legend: 9 Recommended grade (9th–12th) 2s Duration (semesters) Ⓡ Required for SHS graduation R-IB Required for IBDP $ Fee

Course name	Credits	Prerequisites	Description
French 3 10-12 2s	2 SHS credits	French 2	In French III, students refine their language skills through more advanced dialogues, written expression and interpretive communication activities. Learners deepen their linguistic accuracy and expressive ability while exploring diverse francophone cultures in preparation for IBDP French 1 SL.
IBDP French 1 SL 11-12 2s	2 SHS credits	French 3 (no online substitutions will prepare students for this course). Teacher recommendation	This advanced French course builds on prior knowledge through literature, media, and technology to strengthen language proficiency and prepare students for the IBDP French Language B Standard Level exam. In addition to developing strong communication and analytical skills, students complete oral and written assessments while gaining cultural understanding valuable for university and global opportunities. *Optional CMC credit may be available for qualified students.*
IBDP French 2 SL 11-12 2s R-IB	2 SHS credits	French DP1 SL	Designed for advanced French learners focusing on oral proficiency, literary analysis, and intercultural understanding. Students explore identity, communication, and culture while preparing for IB assessments. *Optional CMC credit may be available for qualified students.*
Spanish 1 9-10 2s	2 SHS credits	None	Introduces basic Spanish communication skills in listening, speaking, reading, and writing. Students learn vocabulary, pronunciation, and grammar through interactive practice and cultural exploration.
Spanish 2 9-11 2s	2 SHS credits	Spanish 1 (no online substitutions will prepare students for this course)	Builds on Spanish 1 with greater focus on sentence structure, conversation, and cultural context. Students engage in real-life dialogues, readings, and short compositions.
Spanish 3 11-12 2s	2 SHS credits	Spanish 2 (no online substitutions will prepare students for this course)	This course builds on Spanish II and prepares students for DP Spanish I SL through more advanced language practice. Students will improve their speaking, reading, and writing skills while exploring cultural connections in Spanish.

World Language (cont'd)

Legend: 9 Recommended grade (9th–12th) 2s Duration (semesters) Ⓡ Required for SHS graduation R-IB Required for IBDP $ Fee

Course name	Credits	Prerequisites	Description
Heritage 9-10 4s	4 SHS credits	None	The class serves a diverse group of students, from U.S.-raised Heritage speakers to newly arrived immigrants, each with varying levels of Spanish proficiency—from fluent speakers to those who understand the language but find expression challenging. It provides a supportive space to strengthen linguistic and cultural identity through project-based learning, reflection, and bilingual engagement, helping students explore their heritage, enhance their language skills, and build confidence as bilingual individuals in preparation for IB DP Spanish HL.
IBDP Spanish 1 SL 11-12 2s	2 SHS credits	Spanish 3 (no online substitutions will prepare students for this course).	This intermediate-advanced Spanish course builds on prior knowledge through literature, media, and technology to strengthen language proficiency and prepare students for the IBDP Spanish Language B Standard Level exam. In addition to developing strong communication and analytical skills, students complete oral and written assessments while gaining cultural understanding valuable for university and global opportunities.
Dual Language Spanish 1 / 2 9-10 4s R-IB	4 SHS credits	Participation in the Dual Language Program Or Teacher recommendation	A course for dual-language students or advanced speakers that builds academic and conversational Spanish through listening, speaking, reading, writing, and cultural exploration. It prepares students for advanced study and supports bilingualism, biliteracy, and real-world language use.
IBDP Spanish 2 SL 11-12 2s R-IB	2 SHS credits	Spanish DP1 SL	This advanced Spanish course strengthens reading, writing, speaking, and listening skills through authentic materials and prepares students for the IB DP Spanish Language B Standard Level exams, including an oral assessment in April and written and listening exams in May. In developing advanced communication and analytical abilities, students gain valuable skills for future academic and professional paths in fields such as international studies, global business, and education.

World Language (cont'd)

What do students say?

French 1

"It is a very fun class with lots of activities and you're never stuck sitting all class, you also get to make crepes."

French 2

"This class helped me feel more future-ready, in a way, by teaching me how to communicate in a latin-based language which could help me understand other languages of the same basis and have a deeper understanding of people around the world."

French 3

"I was able to learn a third language which can possibly help me with any future jobs or traveling. I think being able to speak different languages is just a cool and important skill to have."

IBDP French 2 SL

"This course does challenge you, but not usually in an academic way, but in more of a confidence way. You are learning a new language, there are going to be a few rocky times, but overall you will get the hang of it. We do a lot of group work, but that is primarily for reading articles, doing small oral presentations, and learning about French-speaking cultures. I would recommend it to students who are willing to try something a little new and who desire to build connections in smaller class sizes. It is a fun class to take with friends and you get to practice your French skills along with earning the IBDP credit."

IBDP Spanish 1 HL (DL requirement)

"Although this is a higher-level class, I felt that the level of rigor managed to strike a balance between difficult and enjoyable, which made it far less daunting. There is a fair amount of time spent developing speaking skills, writing abilities, and listening abilities, as conversations about thought-provoking topics are frequent both as part of assignments and during class discussions."

IBDP Spanish 1 HL (DL requirement)

"This class felt to me to be at the same level of immersion that I experienced at Dillon Valley, when I was spending half of my school year in Spanish. However, layered onto that there is a much higher level of critical thinking that goes on, meaning that your skills in Spanish sophisticate themselves in order to accommodate the higher-thinking order assignments you are doing."

IBDP Spanish 2 HL (DL requirement)

"This class did make me feel more ready for college because I think the structure is very similar to those of college seminars. We have a lot of discussions in class and are challenged to answer interesting questions, all in Spanish."

IBDP French 1 SL

"It has improved my grammar and pronunciation, which has indirectly helped me speak better and use a more broad vocabulary. I recommend it if you are in French classes, even though it is harder than all of the previous years."

Human Performance, Health & Physical Education

Human Performance, Health, and Physical Education at Summit High School focuses on lifelong wellness, physical fitness, and mental well-being. Students explore how physical activity, nutrition, and decision-making contribute to overall health and success in school and life. From **Health, PE** to **Advanced Weight Training**, courses promote teamwork, goal setting, and self-awareness. The **Health** course offers foundational knowledge about physical, emotional, and social wellness, while upper-level electives empower students to personalize their fitness journey. Whether students are athletes, adventurers, or simply looking to stay active, SHS's Health & PE program supports growth of both body and mind.

Legend: 9 Recommended grade (9th–12th) 2s Duration (semesters) Ⓡ Required for SHS graduation R-IB Required for IBDP $ Fee

Course name	Credits	Prerequisites	Description
Health 9-10 2s Ⓡ	1 SHS credit	None	This course is designed to help students develop the knowledge, skills, and attitudes needed to make healthy, responsible decisions throughout adolescence and into adulthood. Students will explore topics related to social, mental, and emotional health, healthy relationships, nutrition, substance abuse prevention, sexual health education, and injury and violence prevention. Through interactive lessons, discussions, and real-life scenarios, students will learn effective decision-making strategies, goal-setting skills, and ways to manage stress, peer pressure, and risk-taking behaviors. The course emphasizes personal responsibility, respect for self and others, and the ability to apply health concepts to everyday life to support overall well-being.
Physical Education 1 9-10 1s Ⓡ	1 SHS credit	None	Physical Education I is designed to introduce students to the knowledge, skills, and behaviors necessary for lifelong physical activity and fitness. The course combines physical participation with knowledge-based lessons focused on fitness literacy, team sport strategy, cooperation, teamwork, and personal and group safety. Students will participate in a variety of activity units, including fitness training, net games, court games, field games, and dance, while learning how rules, strategies, and roles contribute to successful and respectful play. Emphasis is placed on goal setting, communication, and responsible decision-making to promote safe, inclusive, and enjoyable physical activity experiences.
Physical Education 2 9-10 1s Ⓡ	1 SHS credit	Physical Education 1	Students develop fitness goals, monitor progress and explore lifetime sports such as hiking, pickleball, backyard games, yoga, and the importance of lifesaving skills including first aid and CPR. Students also learn the connection between physical movement, the brain, and learning.

Human Performance, Health & Physical Education (cont'd)

Legend: 9 Recommended grade (9th–12th) 2s Duration (semesters) Ⓡ Required for SHS graduation R-IB Required for IBDP $ Fee

Course name	Credits	Prerequisites	Description
Weight Training 1 9-10 1s	1 SHS credit	None	Designed for students interested in learning about and practicing introductory resistance training. Students learn some basic principles of exercise science, foundational weight training techniques, and safety while participating in a standardized program.
Weight Training 2 10-12 1s	1 SHS credit	Weight Training 1 or Instructor permission	Designed for students interested in more advanced athletic performance or strength and conditioning. Students learn more principles of exercise science, weight training, and basic nutrition while participating in individualized programs that meet their desired goals.
CMC Weight Training 1/2 9-10 1s	1 SHS credit 1 CMC credit	Weight Training 2 or Instructor permission	Designed for students interested in advanced athletic performance and strength conditioning. Students learn how to manipulate principles of exercise science, advanced resistance training techniques, and nutrition while creating and performing individualized programs to meet their specific goals.
Alpine Conditioning 9-12 1s	1 SHS credit	Designed for SHS Alpine and Club Ski Racers enrolled in Academic Athlete and competing in Alpine Ski Racing	The class is designed for Alpine Ski Racers to take in the spring semester and can be taken for PE1, PE2, Weight Training or CMC Weight Training. This course is designed to help the student fulfill the PE graduation requirements and utilize training time on the hill, through online work and in class activities that cover the specific course content needed given their grade level. *(9th=PE1, 10th=PE2, 11-12th=WT classes)*

What do students say?

PE/Health

"This was a fun class. One skill I gained from this class was learning how to play spike ball. It was a nice break from harder classes."

PE/Health

"It has a lot of fitness testing, but also a lot of activities to do as well. You also get to to cpr/first aid training half way through the semester. Try your hardest on the fitness testing, pay attention to the cpr and first aid training as well, because its a very important life skill to have."

Weight Training

"I took this class to stay strong and healthy. This class was very enjoyable because I learned many things about health that I did not know before."

PE 2

"I learned yoga skills, and i was able to get my CPR certification. This class helped me feel more future-ready because I now have my cpr certification which can open things up for me."

Pathway to the Profile

Legend: 9 Recommended grade (9th–12th) 2s Duration (semesters) Ⓡ Required for SHS graduation R-IB Required for IBDP $ Fee

Course name	Credits	Prerequisites	Description
Pathway to the Profile 9-12 2s Ⓡ	3 SHS credits	None	The Pathway to the Profile course is a multi-year, purpose-driven experience designed to support students in developing the skills, competencies, and mindsets outlined in the Summit High School Graduate Profile. Students explore their strengths, interests, and future goals through reflection, career exploration, and real-world connections. Along the way, students create a portfolio, complete a personal project in 10th grade, and finish with a senior capstone presentation. This course gives students a chance to show their growth, tell their story, and take pride in who they are becoming as Summit High School graduates.

Student Support Services

Student Support courses are provided through our English Language Development (ELD) Program, Special Education, and Response to Intervention (RTI) in collaboration with our Counseling Team. These courses are intentionally designed and individually selected to support students in reaching their goals in language development, reading, writing, mathematics, social-emotional learning, and executive functioning.

Support options may include co-taught classes, academic support courses, and targeted academic intervention classes. Students qualify for these supports based on identified needs through established school processes. Placement, services, and individualized goals are clearly communicated with students, families, and teachers to ensure a coordinated system of support and ongoing progress monitoring.

Course name	Credits	Prerequisites	Description
CuKuMu 9-10 1s	None	None	Individualized support to assist with credit recovery and course completion. Assigned by Counselor.
Work Based Learning 11-12 1s	1-2 SHS credit	Junior or Senior	Work-Based Learning allows students to earn elective credit while gaining real-world career experience. This option is ideal for students who have current employment related to their post-secondary pathway or an associated field or are interested in exploring a potential career field through partnerships with SSD community organizations. Submission of paperwork is required to pass this course.



PATHWAY:

Advanced Manufacturing & Engineering

This pathway teaches students to **design, build, and problem-solve using engineering principles**, **fabrication skills, and technology**. Students gain experience with drafting, **CAD, robotics, prototyping, and manufacturing processes**. Strong student interest in welding and construction-related engineering shows a clear connection between engineering and the Skilled Trades Pathway.

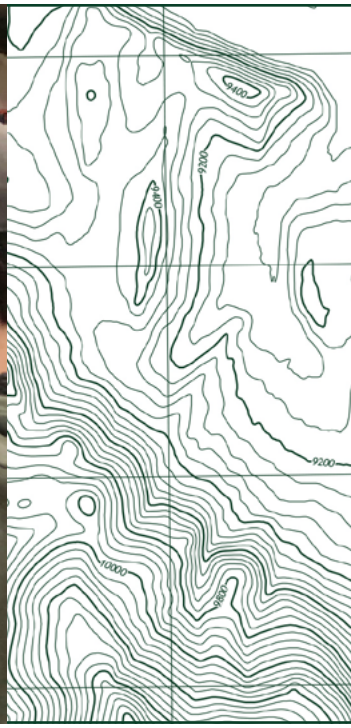
The following topics are included in this pathway:

- Product and System Design/Testing/Production
- CAD Design/Drafting
- Mechanical Engineering
- Electronics and Electrical Systems
- Fabrication
- Systems Integration
- Remote Sensing and Robotics
- Operation of CNC Mills and 3D Printers
- Civil Engineering

Other courses which support this pathway:

- Intro to Engineering & Tech
- Drafting & Design
- Robotics
- DL Welding
- Construction Tech





> *CTE classes set me up for the mindset you need for careers: thinking of how implementing something in a system will work, weighing pros and cons, working with your team.*

It's not just you, but also the team you're working with. You need to be able to listen and hear and see others' perspectives to find a path forward."
—Mason McEntire-Morgan, class of 2025

Legend: 9 Recommended grade (9th–12th) 2s Duration (semesters) Ⓡ Required for SHS graduation R-IB Required for IBDP $ Fee

Course name	Credits	Prerequisites	Description
Introduction to Engineering and Technology 9-12 1s $ *Fee: $30*	1 SHS credit	None	This introductory course provides students with broad exposure to multiple fields of engineering while developing creative problem-solving and teamwork skills. Students explore engineering principles through design challenges, prototyping, and analysis while working with a variety of tools and technologies.
Principles of Engineering 10-12 1s $ *Fee: $30*	1 SHS credit	Introduction to Engineering and Technology	This project-based course provides deeper exploration into engineering concepts, problem-solving, and the design process. Students work on advanced builds and real-world engineering challenges, using tools, software, and fabrication methods common across engineering disciplines.
Robotics and Automated Systems 10-12 1s	1 SHS credit	None	Students explore robotics, automation, and drone technology using VEX robotics systems and Tiny Whoop drones. Hands-on learning includes building, programming, flight operations, and competitive challenges. Coursework emphasizes engineering design, troubleshooting, and analytical thinking. This course may be taken multiple times for credit.
Drafting and Design (Architectural Design) 10-12 1s	1 SHS credit,	Introduction to Engineering and Technology	Students explore architectural design through hands-on drafting, modeling, and project development. Using tools such as SketchUp, Tinkercad, AutoCAD, and Revit, students learn how buildings and structures are planned and created. Coursework covers floor plans, elevations, modeling techniques, and professional design standards. This course may be repeated, with later enrollments renamed accordingly. CMC concurrent enrollment is available.



PATHWAY:

Business, Marketing & Entrepreneurship

This pathway prepares students to become **innovative thinkers, problem-solvers, and creators in the world of business**. Students learn how companies operate, how products are designed and marketed, and how to turn an idea into a viable business. Through hands-on projects, partnerships with local businesses, and opportunities to run student enterprises, students gain essential skills in **leadership, finance, marketing, and entrepreneurship**. This highest-interest pathway is ideal for students who enjoy creativity, collaboration, and building ideas from the ground up.

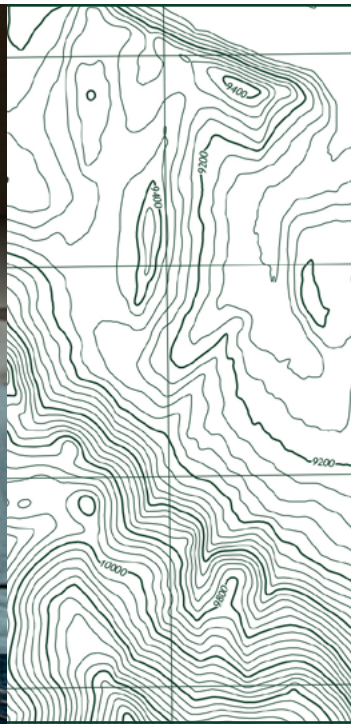
The following topics are included in this pathway:

- Business
- Entrepreneurship/Small Business Ownership
- Marking & Multimedia
- Hospitality & Tourism
- Fine Arts
- Retail
- Financial Management
- Accounting
- Investing
- Real Estate
- Sales
- Management

Other courses which support this pathway:

- Entrepreneurship
- Marketing





“Just take it if it looks interesting.

To learn what you do and don’t like. You get a lot of good friends from taking those classes. All the teachers have connections outside of the school which are helpful for jobs and internships and after school to get those started as a freshman or sophomore are really helpful to college and your future. Trying all these new experiences is a great way to shape who you will be in the future.”

—Annabel Bovaird, class of 2025

Thanks to our community partners for their support of this pathway:

- Breckenridge Restaurant Association
- Colorado Restaurant Foundation and Association
- National Restaurant Association
- Rootstalk
- Radicato
- Silverheels
- Bristo North
- Grecos

The following industry certifications are offered in this pathway:

- ServSafe Food Handlers
- ServSafe Managers
- Certificate of Achievement

Legend: 9 Recommended grade (9th–12th) 2s Duration (semesters) Ⓡ Required for SHS graduation R-IB Required for IBDP $ Fee

Course name	Credits	Prerequisites	Description
Intro to Business 10-12 1s	1 SHS credit	None	Introduces students to the fundamentals of business ownership, entrepreneurship, marketing, finance, and management. Students explore how businesses operate, analyze financial statements, develop product ideas, and create business plans. Hands-on projects allow students to practice real-world problem solving, budgeting, collaboration, and creative design. This course is ideal for students interested in launching a business, developing leadership skills, or exploring careers in business and marketing.
Business Innovation & Entrepreneurship 10-12 1s	1 SHS credit	Intro to Business	Business Innovation & Entrepreneurship is a project-based course where students investigate real market needs and design innovative business solutions. Students develop brands, marketing campaigns, and financial and operational plans while applying professional models. Through research, collaboration, and iterative design, students build entrepreneurial thinking, communication skills, and business literacy. The course culminates in a Summit Innovation Showcase, where students present polished business pitches and proposals to community partners and industry judges. The course culminates in a Summit Innovation Showcase, where students present polished business pitches and proposals to community partners and industry judges.
Graphic Design 1 10-12 1s	1 SHS credit	None	Introduces students to professional design principles, creative problem solving, and digital tools used in the design industry. Students work with Adobe Creative Cloud (Photoshop, Illustrator, InDesign) on Apple computers to produce print and digital media. Projects include posters, logos, apparel, and advertising designs created for real or simulated clients.
Graphic Design 2 10-12 1s	1 SHS credit	Graphic Design 1	A continuation of Graphic Design 1, this course deepens students' skills in illustration, layout, typography, branding, and visual composition. Students tackle advanced projects including magazine covers, advertising packages, product branding, and publication design. Emphasis is placed on critique, client communication, and portfolio development for creative careers.

Legend: 9 Recommended grade (9th–12th) 2s Duration (semesters) Ⓡ Required for SHS graduation R-IB Required for IBDP $ Fee

Course name	Credits	Prerequisites	Description
Yearbook 10-12 1s	1 SHS credit	English grade of 2.5+ and Teacher Approval via Application	This production course teaches journalism, layout, photography, digital design, editing, and project management as students collaboratively create the SHS yearbook. Students also learn advertising, budgeting, and organizational leadership skills. The course may be repeated for additional credit as staff roles increase each year.
Introduction to Video Production 9-12 1s	1 SHS credit	None	This course introduces students to audio/video technology and digital media production. Students learn camera operation, lighting, sound, editing, and storytelling fundamentals while exploring careers in AV, film, and broadcast media. Projects include short films, interviews, and creative digital pieces.
Broadcast Production 10-12 1s	1 SHS credit	Intro to Video Production	Students learn the workflow of broadcast news and television production, including scripting, filming, editing, on-camera communication, and live broadcast techniques. Students produce news segments, field reports, and broadcast packages through hands-on work with professional tools.
CMC Audio/Video Production 2 12 2s *CMC enrollment after successful Sem 1*	2 SHS credits 6 CMC credits	Intro to Video (2.5+); CMC eligibility and teacher approval via application.	This advanced, college-level experience teaches professional digital imaging, cinematography, and audio production. Students study exposure, lighting, lens selection, composition, editing, and visual storytelling. Projects mirror industry standards and include critique-based assessments. Students also explore careers in media production, photography, and digital marketing. This class may be continued in the senior year for additional credits. *CMC Courses: PHO-1021 Image Capture I (3 cr) and PHO-1061 Digital Capture Processing I (3 cr). These courses are required for CMC's Digital Media and Professional Photography programs.*
Film Analysis 9-12 1s	1 SHS credit	None	This course focuses on critically viewing, analyzing, and discussing film through cinematic vocabulary such as cinematography, mise-en-scène, editing, sound, and visual storytelling. Students write reviews, record analyses, and examine how filmmakers construct meaning. This course builds media literacy and communication skills.
Introduction to Hospitality 9-10 1s $ *Fee: $45*	1 SHS credit	None	This introductory course provides the foundation for culinary and hospitality careers. Students learn kitchen safety, nutrition basics, baking and cooking techniques, and proper use of tools and equipment. Coursework blends hands-on practice with food science and hospitality concepts to prepare students for upper-level courses such as ProStart and Hospitality & Tourism.

Legend: 9 Recommended grade (9th–12th) 2s Duration (semesters) Ⓡ Required for SHS graduation R-IB Required for IBDP $ Fee

Course name	Credits	Prerequisites	Description
ProStart 1 10-12 2s $ *Fee: $45*	2 SHS credits	Introduction to Hospitality	ProStart 1 provides industry-level experience in culinary arts and hospitality management. Students explore menu development, cost control, food safety, kitchen operations, customer service, and the science of cooking. Through hands-on labs and real-world applications, students develop foundational skills for careers in restaurants, resorts, and food service. College credit may be available through MSU.
ProStart 2 10-12 2s $ *Fee: $45*	2 SHS credits	ProStart 1; interest in hospitality or resort careers	A continuation of ProStart 1, this advanced course dives deeper into hospitality and resort management. Students explore guest relations, lodging operations, food and beverage management, event planning, and tourism. Field studies and job-shadowing experiences with local hotels and restaurants provide meaningful professional exposure. Note: This course is not offered every year. College credit may be available through MSU.
ProStart Youth Apprenticeship 11-12 2s $ *Fee: $45*	2 SHS credits	Catering I & II; Intro to Hospitality enrollment in ProStart	This apprenticeship-supported course enables students to work toward the ProStart National Certificate of Achievement, requiring 400 hours of documented industry experience. Students participate in a paid internship at an approved food service operation while completing weekly reflections, a professional portfolio, and a final skills demonstration. Coursework emphasizes employability, professionalism, and proficiency in industry competencies.
ProStart Hospitality and Tourism 10-12 2s	2 SHS credits	Introduction to Hospitality	This course focuses on the broader hospitality and tourism industries, including lodging, travel, event coordination, and resort operations. Students design hospitality business proposals incorporating concept development, marketing plans, and visual presentations. Coursework includes research, hands-on activities, and industry engagement. College credit may be available.
Drama 9-12 1s	1 SHS credit	None	Drama is an active, performance-based introduction to theater. Students explore storytelling, improvisation, monologues, and scene work while building skills in character analysis, stage movement, and ensemble collaboration. The course builds confidence, communication, and creative expression. Drama may be repeated once for additional credit.

Legend: 9 Recommended grade (9th–12th) 2s Duration (semesters) Ⓡ Required for SHS graduation R-IB Required for IBDP $ Fee

Course name	Credits	Prerequisites	Description
Theater Technology 9-12 2s	2 SHS credits	None	This hands-on technical theater course teaches lighting, sound, stagecraft, props, set construction, set painting, inventory management, and backstage operations. Students participate in at least one SHS production each semester and learn the responsibilities of theater technicians. A tech contract is required for production work.
Concert Choir 9-12 2s	2 SHS credits, 2 CMC credits per semester in 11th and 12th grades	None	Students will use the vocal performance to further their music education. Students will learn the essentials of healthy tone production, vocalizing, sight reading, and performance. The choir performs concerts and attends clinics, festivals, and contests. This course may be repeated for additional credits. Students will be expected to demonstrate a knowledge and application level commensurate with ability and formal studies. *Concurrent enrollment is available for 3rd and 4th-year choir members. CMC Courses: Year 1 MUS-1031 & MUS-1032 Music Class I & II (2 cr each); Year 2 MUS-2031 & MUS-2032 Music Class I & II Intermediate (2 cr each). These courses are generally transferable as credits.*
Summit Singers 11-12 2s	2 SHS Credits per year; 2 CMC credits per semester in 11th and 12th grades	Some musical experience in reading music and/or performance choir experience (College enrollment available for 11th and 12th grade students with previous music credits).	This performance-based group is the top vocal group at Summit High School, and serves our community and school through many performances throughout the year, many of them outside school hours. Students are expected to demonstrate vocal and musical growth and commitment, and are encouraged to remain with the group throughout high school. Musical repertoire will include pop, jazz, classical, and world language. *Concurrent enrollment is available for 3rd and 4th-year members. CMC Courses: Year 1 MUS-1031 & MUS-1032 Music Class I & II (2 cr each); Year 2 MUS-2031 & MUS-2032 Music Class I & II Intermediate (2 cr each). These courses are generally transferable as credits.*
Guitar (Dual-Language Option Available) 9-12 1s $ *Fee $15.95*	1 SHS credit	None	Beginning guitar class covering open chords, note reading, rhythm reading, tablature, strumming patterns, fingerstyle, ensemble playing, bass lines, power chords and barre chords.

Legend: 9 Recommended grade (9th–12th) 2s Duration (semesters) Ⓡ Required for SHS graduation R-IB Required for IBDP $ Fee

Course name	Credits	Prerequisites	Description
Orchestra 9-12 2s	2 SHS credits 2 CMC credits per semester in 11th and 12th grades (with previous SHS music credits)	Middle school orchestra or audition	Performance-based course emphasizing leadership, skill-development, musicianship, collaboration, and public performance. Students perform at various events throughout the year. Required uniform purchase. *Concurrent enrollment is available for 3rd and 4th-year choir members. CMC Courses: Year 1 MUS-1031 & MUS-1032 Music Class I & II (2 cr each); Year 2 MUS-2031 & MUS-2032 Music Class I & II Intermediate (2 cr each). These courses are generally transferable as credits.*
CMC World Music 10-12 1s	1 SHS credit 3 CMC credits	ERW ≥ 470 (SAT) or 500 (PSAT) or Accuplacer Writing	Provides an overview of music from around the globe including folk, ethnic, non-Western and popular styles. Develops basic listening skills and builds a historical/cultural context for world music styles to enable an understanding and appreciation of global music. NO previous musical experience required! *CMC Course: MUS-1023 Survey of World Music (3 cr), Guaranteed Transfer course.*
Band 9-12 2s $ *Fee $15*	2 SHS credits 2 CMC credits per semester in 11th and 12th grades (with previous SHS music credits)	Middle school band or audition	Performance-based course emphasizing leadership, skill-development, musicianship, collaboration, and public performance. Students perform at various events throughout the year. Required uniform purchase. *Concurrent enrollment is available for 3rd and 4th-year choir members. CMC Courses: Year 1 MUS-1031 & MUS-1032 Music Class I & II (2 cr each); Year 2 MUS-2031 & MUS-2032 Music Class I & II Intermediate (2 cr each). These courses are generally transferable as credits.*
Gig Band 9-12 2s	2 SHS credits 2 CMC credits per semester in 11th and 12th grades (with previous SHS music credits)	Knowledge of how to play musical instruments.	Performance-based course for intermediate/advanced students who play a Jazz/Latin/Rock/Pop/Country etc. instrument. Emphases individual goal-setting, skill-development, musicianship, collaboration, and public performance. *Concurrent enrollment is available for 3rd and 4th-year choir members. CMC Courses: Year 1 MUS-1031 & MUS-1032 Music Class I & II (2 cr each); Year 2 MUS-2031 & MUS-2032 Music Class I & II Intermediate (2 cr each). These courses are generally transferable as credits.*

Legend: 9 Recommended grade (9th–12th) 2s Duration (semesters) Ⓡ Required for SHS graduation R-IB Required for IBDP $ Fee

Course name	Credits	Prerequisites	Description
IBDP Music SL/HL 11-12 2s *(SL)* 4s *(HL)*	2 SHS credits (SL) or 4 SHS credits (HL) 6 CMC Credits (SL) or 10 CMC credits (HL)	4 semesters of high school music (for CMC enrollment ERW ≥ 470 (SAT) or 500 (PSAT) or Accuplacer Writing 246+)	Build a portfolio as a music researcher, performer, and composer, including music theory. Covers a wide variety of music written for sociocultural and political expression, listening and performance, dramatic impact/movement/entertainment, and music technology in the electronic and digital age. *Concurrent enrollment is available. Year 1/SL CMC Courses: MUS-1001 Music Theory Fundamental (3 cr), generally transferable, and MUS-1023 Survey of World Music (3 cr), Guaranteed Transfer course. Year 2/HL CMC Courses: MUS-1031 & MUS-1032 Music Class I & II (2 cr each) or MUS-2031 & MUS-2032 Music Class I & II Intermediate (2 cr each), depending on Performing Arts background. These courses are generally transferable as credits*
Drawing I 9-12 1s	1 SHS credit	None	An introductory studio class focusing on observational skills, teaching fundamental elements like line, shape, value, perspective, and composition using materials like graphite, charcoal, and ink, with projects often involving still life and figure drawing to build hand-eye coordination, technical proficiency, and a visual vocabulary for translating 3D forms to 2D surfaces.
Drawing II 10-12 1s	1 SHS credit	None	Builds on fundamentals from Drawing I, advancing students with more complex techniques, diverse media (like color, pastels, ink), and deeper exploration of concepts like perspective (including 2-point), form, texture, and personal expression, often introducing the human figure and focusing on creative problem-solving through studio projects, critiques, and exploring historical/contemporary styles. It emphasizes developing both technical skill and a unique artistic voice, moving from basic observation to expressive image-making.
Painting I 9-12 1s $ *Fee $25*	1 SHS credit	None	Covers fundamental design principles, color theory, and various techniques using media like acrylics, oils, or watercolors, focusing on developing skills in composition, brushwork, and applying concepts to create both representational and abstract art, often culminating in personal projects with critiques to build artistic voice and confidence.

Legend: 9 Recommended grade (9th–12th) 2s Duration (semesters) Ⓡ Required for SHS graduation R-IB Required for IBDP $ Fee

Course name	Credits	Prerequisites	Description
Painting II 10-12 1s $ *Fee $25*	1 SHS credit	Painting I	Builds on foundational skills from Painting I, focusing on developing personal style, deeper conceptual understanding, and advanced techniques in media like acrylics or oils, exploring abstraction, representation, and subject matter through independent projects and critiques. Expect to refine color theory, composition, and application, while exploring personal themes, history, and social commentary, moving beyond basic skills to a more individual artistic voice and portfolio development.
Metals & Jewelry 9-11 1s	1 SHS credit	None	As an extension of the Visual Arts Programs, this introductory course focuses on small-scale metalsmithing . Students will create a variety of functional and decorative pieces while implementing metal-smith tools, skills, and techniques. Students will create a variety of subject matter based in three-dimensions while implementing elements and principles of art. Projects include making necklaces, pendants, castings, jewel setting and ring
Ceramics I 10-12 1s $ *Fee $25*	1 SHS credit	None	Students explore hand-building and wheel-throwing techniques to create functional and sculptural pieces. Ceramics II expands on foundational techniques while allowing students to further explore the media.
Ceramics II 10-12 1s $ *Fee $25*	1 SHS credit	Ceramics I	Students explore hand-building and wheel-throwing techniques to create functional and sculptural pieces. Ceramics II expands on foundational techniques while allowing students to further explore the media.
Photography I 9-12 1s $ *Fee $20*	2 SHS credits	None	Students explore the origins of photography through hands-on projects using early processes, while learning the fundamentals of light, exposure, aperture, shutter speed, and ISO. Students develop skills in digital photography and basic photo editing while building an understanding of how images are created and used to communicate ideas.
Photography II 9-12 1s $ *Fee $25*	2 SHS credits	Photography I or Instructor Approval	Builds upon the technical and creative skills introduced in Photography I. Students explore film photography and darkroom processes, along with learning more digital and photo editing techniques. Students expand their understanding of photographic processes, refine their personal style, and develop advanced techniques through both digital and analog photography.



PATHWAY:

Computer Science

This pathway prepares students for careers in **programming, cybersecurity, IT systems, game design, and other rapidly expanding technology fields**. Students develop skills in coding fundamentals, systems thinking, network security, and software design. High enrollment in AP Cybersecurity and Intro to Computer Science shows that students want more real-world, hands-on technical opportunities.

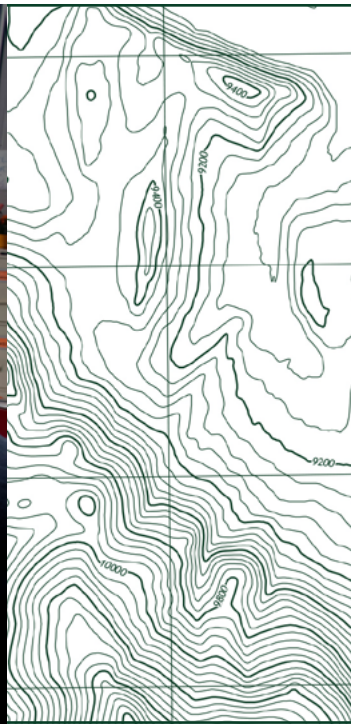
The following topics are included in this pathway:

- Software Development
- Cybersecurity
- IT systems
- Game Design
- Data Science

Other courses which support this pathway:

- Intro to Computer Science
- AP Computer Science
- Coding
- Game Design





“Computer Science classes changed the way I thought about the world.

The way you code can be applied to a lot more than just coding.” Going to the TSA competitions allowed me to do a lot of networking and building connections. There are so many people with so many different technological careers.”

—Josie Speerstra, class of 2025

Legend: 9 Recommended grade (9th–12th) 2s Duration (semesters) Ⓡ Required for SHS graduation R-IB Required for IBDP $ Fee

Course name	Credits	Prerequisites	Description
Introduction to Computer Science 9-12 1s $ *Fee: $30*	1 SHS credit	8th Grade English	This foundational course introduces students to the core concepts of computer science, including algorithms, programming logic, data structures, computer architecture, and software engineering. Through hands-on labs and projects, students practice problem-solving and computational thinking while learning how technology is used to address real-world challenges. No prior programming experience required—this is the ideal starting point for students curious about CS, coding, engineering, or digital innovation.
AP Computer Science Principles 10 2s	2 SHS credits 7 CMC credits	Intro to Computer Science or Intro to Principles of Engineering	This college-level AP course builds the foundational skills of modern computer science. Students learn problem-solving, algorithmic thinking, data processing, object-oriented programming, and software design using the Java programming language. Coursework prepares students for the AP exam and aligns with first-year university CS1 standards. Students may earn 7 CMC credits and progress into game design, cybersecurity, or advanced programming pathways. *Concurrent enrollment is available. CMC Courses: CSC-1019 Introduction to Programming (3 cr), CSC-1060 Computer Science I (4 cr); both are generally transferable courses.*
Game Design 10-12 1s	1 SHS credit 3 CMC credits	AP Computer Science Principles (CSC-1019 & CSC-1060)	This highly interactive course teaches programming through the creation of animated, graphics-based video games. Students study game mechanics, design theory, and user experience while developing playable games and learning professional debugging and problem-solving techniques.

What do students say?

Cyber Security

"Cyber Security is definitely a class I wish more people were in. It helped clarify things. It's free money because I get to take a certification test that would normally cost $800 for free."
—Brody Traylor, class of 2025

Coding and Robotics

"My teachers were programmers themselves, which means they helped with connecting with professionals in the field. I enjoyed the product design procedure–taking an idea and turning it into something real, like in robotics."
—Joseph Starr, class of 2025



PATHWAY:

Health Science

This pathway builds foundational knowledge for students interested in **medical, emergency response, fitness, and human health careers.** Students explore anatomy, medical terminology, emergency medicine, and sports medicine through lab work and certifications. High enrollment in EMR and Health Science reflects strong student interest in helping professions and medical fields.

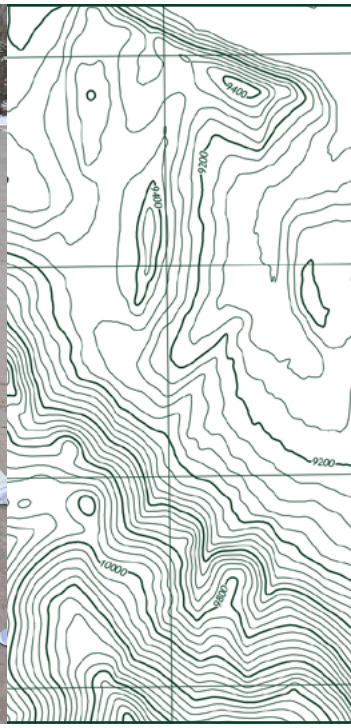
The following topics are included in this pathway:

- Nursing
- EMT/paramedicine
- Athletic training
- Physical Therapy
- Medical Assisting

Other courses which support this pathway:

- Health Science I
- Medical Terminology
- EMR
- Athletic Training I





> *What we learn does actually translate and make sense in a real world place.*

—Annabel Bovaird, class of 2025

Thanks to our community partners for their support of this pathway:

- Vail Health
- CommonSpirit Health
- Elevated Health
- Building Hope
- Donor Alliance
- Swan Mountain Clinic
- Summit County Public Health
- Colorado HOSA
- Tree Top Child Advocates

The following industry certifications are offered in this pathway:

- CNA Certification
- EMR Certification
- CPR/First Aid Certification
- Teen Mental Health First Aid
- Stop the Bleed

Legend: 9 Recommended grade (9th–12th) 2s Duration (semesters) Ⓡ Required for SHS graduation R-IB Required for IBDP $ Fee

Course name	Credits	Prerequisites	Description
Health Science Technology 1 10-12 1s	1 SHS credit	8th Grade English	This introductory course provides a broad foundation for students exploring healthcare careers. Students learn about healthcare systems, medical ethics, cultural competency, patient care roles, and essential professional skills. A major focus of the course is medical terminology, where students study the structure of medical language and apply it to real clinical scenarios. All students participate in HOSA—Future Health Professionals, gaining exposure to competitions, leadership, and career pathways. This course is ideal preparation for CNA, medical terminology, or EMR studies.
Health Science Technology 2 12 2s	2 SHS credits 5 CMC credits	Health Science Tech 1; Medical Terminology + EMR preferred	This program prepares students for employment as a Certified Nurse Aide (CNA). Students learn patient care skills, safety procedures, vital signs, infection control, mobility assistance, and communication in clinical settings. The course includes hands-on training, clinical rotations, and CPR certification. Students who complete both semesters earn the CMC Nurse Aide Certificate and are eligible for the Colorado State CNA Exam. Additional clinical hours outside of class are required. *CMC Courses: NUA-1001 Nurse Aide Health Care Skills (4 cr), NUA-1070 Nurse Aide Clinical Experience (0.5 cr), HPR-1011 CPR for Professionals (0.5 cr). These courses are required to earn the Nurse Aide certificate.*
CMC Medical Terminology 11-12 1s	1 SHS credit 2 CMC credits	Chemistry & Biology, qualifying English scores	Students develop fluency in the language of healthcare by studying prefixes, suffixes, roots, abbreviations, anatomical terminology, and clinical vocabulary. Emphasis is placed on accurate pronunciation, spelling, and usage. This course provides a strong foundation for students pursuing healthcare pathways such as nursing, medicine, EMT, athletic training, or therapy professions.
CMC Emergency Medical Responder (EMR) 11-12 1s	1 SHS credit, 3 CMC credits	Medical Terminology	This American Red Cross–aligned EMR course prepares students to provide immediate emergency care until advanced medical assistance arrives. Students learn patient assessment, trauma response, CPR, airway management, medical emergencies, and rescue skills. A clinical final is required to qualify for EMR certification (students may then purchase the Red Cross credential). Additional time outside of class is required. Ideal for students pursuing EMT or healthcare careers.

Legend: 9 Recommended grade (9th–12th) 2s Duration (semesters) Ⓡ Required for SHS graduation R-IB Required for IBDP $ Fee

Course name	Credits	Prerequisites	Description
Athletic Training 1 10-12 1s $ *Fee: $30*	1 SHS credit	None	Students explore the foundational principles of athletic training, including musculoskeletal anatomy, injury prevention, taping techniques, evaluation basics, and emergency response. Students complete lab hours in the SHS Athletic Training Room during practices and home events. This course blends classroom learning with real-world sports medicine experience.
Athletic Training 2 11-12 1s $ *Fee: $30*	1 SHS credit	Athletic Training 1	This advanced course builds deeper expertise in injury evaluation, rehabilitation, and prevention. Students write research papers on current trends in sports medicine and assist as teaching partners for Athletic Training 1. Most learning occurs in the Athletic Training Room, applying skills directly to SHS athletics.
CMC Exercise Physiology 11-12 2s *CMC enrollment after successful Sem 1*	2 SHS credits 3 CMC credits	Chemistry & Biology (may be concurrent)	This rigorous course introduces students to exercise physiology, biomechanics, nutrition, athlete assessment, and injury prevention. Ideal for students interested in athletic training, PT/OT, kinesiology, coaching, or sports performance. Course content aligns with IB DP Sports, Exercise & Health Science. *CMC Course: HWE-2062 Physiology of Exercise (3 cr), generally transferable course.*
CMC Human Nutrition 11-12 1s	1 SHS credit, 3 CMC credits	Chemistry	Students explore macro- and micronutrients, hydration, digestion, metabolism, energy systems, nutrition for sports performance, and diet-related diseases. The course incorporates case studies, practical applications, and IB SEHS-style assessments. Students earn CMC college credit and develop skills useful for health professions, nutrition, fitness, or medical pathways. *CMC Course: HWE-2050 Human Nutrition (3 cr), generally transferable course.*



PATHWAY:

Human Services & Education

Students explore careers centered on **service, teaching, and supporting individuals and communities**. Coursework develops skills in communication, leadership, child development, public service, and social systems. Students gain real-world teaching experience and earn college credit through CMC coursework, with opportunities to observe, assist, and lead learning activities in local classrooms.

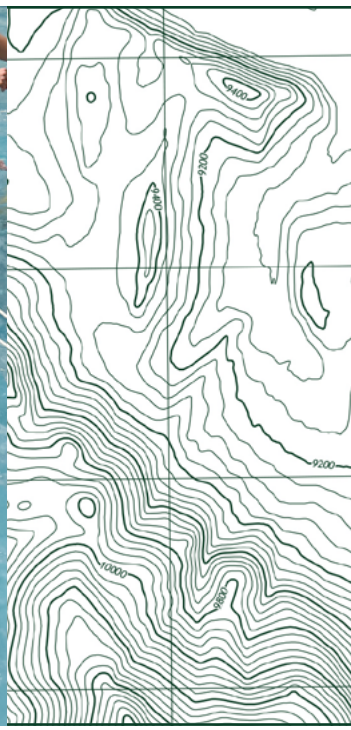
The following topics are included in this pathway:

- Teaching
- Early Childhood Education
- Social Services
- Law Enforcement
- Community Leadership

Other courses which support this pathway:

- Early Childhood Education I
- CMC Early Childhood Education 1
- CMC Early Childhood Education 2
- CMC Early Childhood Education 3
- Criminal Justice
- CMC Psychology
- CMC Sociology





“Pursue your dream, pursue the classes you want to take.

Take CMC classes, take DP classes. Fill your course schedule. Every step matters. Work hard and have fun!”

—Josceline Ortega Orozco, class of 2025

Thanks to our community partners for their support of this pathway:

» Colorado Mountain College
» Mountain Top Explorium

The following industry certifications are offered in this pathway:

» Early Childhood Assistant Teacher Certificate

Legend: 9 Recommended grade (9th–12th) 2s Duration (semesters) Ⓡ Required for SHS graduation R-IB Required for IBDP $ Fee

Course name	Credits	Prerequisites	Description
Early Childhood Education 1 10-12 1s	1 SHS credit 3 CMC credits	CMC eligibility	This introductory course prepares students to work with children ages birth through eight. Students explore child development, developmentally appropriate practices, safety, nutrition, classroom guidance, family and community engagement, diversity and inclusion, and professional ethics. This course is the first step toward the CMC Early Childhood Assistant Teacher Certificate. It also qualifies students for the TREP program, providing up to two years of free postsecondary educator pathway coursework after 12th grade. *CMC Course: ECE-1011 Introduction to Early Childhood Education (3 cr), generally transferable course.*
Early Childhood Education 2 10-12 1s	1 SHS credit 3 CMC credits	ECE 1011 (C or higher)	A continuation of ECE 1011, this course explores guidance theories and strategies that support young children's prosocial behavior, self-regulation, and learning. Students learn about behavior influences, culturally responsive classroom practices, and ethical responsibilities of early childhood educators. This class offers many site visits to local ECE centers. This course is the second requirement for the CMC Early Childhood Assistant Teacher Certificate. *CMC Course: ECE-1031 Guidance Strategies for Young Children (3 cr), generally transferable course.*
Early Childhood Education 3 & ECE Clinical Experience 11-12 1s	1 SHS credit 3 CMC credits	ECE 1011 & ECE 1031 (C or higher)	Focuses on a classroom seminar and placement in an early childhood setting (infant through second grade). The supervised placement provides the student with the opportunity to observe children, to practice appropriate teacher-student interactions, and to develop effective guidance and management techniques. *CMC Course: ECE-1045 Introduction to Early Childhood Education Techniques (3 cr), generally transferable course.*
CMC Introduction to Education 11-12 1s	1 SHS credit 3 CMC credits	CMC eligibility (ERW ≥ 470 SAT or ≥ 500 PSAT or Accuplacer Writing 246+)	This concurrent enrollment course introduces students to the American education system through historical, social, political, and philosophical lenses. Students examine issues in equity, diversity, teacher roles, learning theories, and school policy. Field observations and reflective work provide insight into teaching as a profession. Qualifies students for the TREP program, providing up to two years of free postsecondary educator pathway coursework after 12th grade. *CMC Course: EDU-2211 Introduction to Education (3 cr), generally transferable course.*

Legend: 9 Recommended grade (9th–12th) 2s Duration (semesters) Ⓡ Required for SHS graduation R-IB Required for IBDP $ Fee

Course name	Credits	Prerequisites	Description
CMC Multicultural Education 11-12 1s	1 SHS credit 3 CMC credits	CMC eligibility (ERW ≥ 470 SAT or ≥ 500 PSAT or Accuplacer Writing 246+)	Building on the concepts introduced in "Intro to Education" (EDU 2211), this semester 2 class explores racial, ethnic, cultural, and socioeconomic groups to gain an understanding of equity, diversity, and inclusion in communities and education. This course provides opportunities to contextualize multicultural perspectives in society and their impact on the education system. Field observations and reflective work provide insight into teaching as a profession. *CMC Course: EDU-2341 Multicultural Education (3 cr), generally transferable course.*
Criminal Justice 10-12 1s	1 SHS credit	None	Students explore the structure and function of the American criminal justice system, including policing, courts, and corrections. Topics include constitutional rights, the investigation process, arrest procedures, ethical considerations, and use-of-force decision-making. Careers in law enforcement, legal studies, and public safety are examined as students analyze real-world dilemmas and case studies.

What do students say?

"I'm currently enrolled as a college student. It's concurrent enrollment with the high school and, Colorado Mountain College. Awesome. Through that, I've been able to take a lot of CMC classes and what that means. Is that when I graduate, I actually receive college credit. So, by the end of this year, I should have around 30 to 35 college credits."
—Kate WIlliams



PATHWAY:

Natural Resources

This pathway explores **ecology, sustainability, and resource management through fieldwork, data collection, research, and partnerships with Colorado Mountain College (CMC)**. Students study real environmental challenges and apply scientific methods to local ecosystems. Learners often extend their scientific understanding through IBDP Environmental Systems & Societies SL or IBDP Biology HL, which deepen inquiry into environmental systems, biodiversity, and conservation.

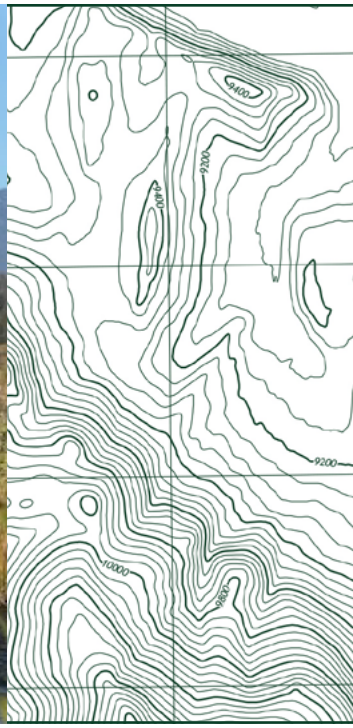
The following topics are included in this pathway:

- Wildlife Biology
- Conservation
- Forestry
- Environmental Science
- Sustainability

Other courses which support this pathway:

- IBDP Bio HL
- IBDP ESS
- CMC Environmental Science
- Stream Ecology





> *The trout room really shaped my future–it helped me realize what I want to do in college.*

— Nicco Bonta, class of 2025

Thanks to our community partners for their support of this pathway:

» High Country Conservation
» Breck Fly Fishing Film Tour

The following industry certifications are offered in this pathway:

» River Watch
» Seal of Climate Literacy

Legend: 9 Recommended grade (9th–12th) 2s Duration (semesters) Ⓡ Required for SHS graduation R-IB Required for IBDP $ Fee

Course name	Credits	Prerequisites	Description
Stream Ecology 12 1s	1 SHS credit 2 CMC credits	Age 15+ or instructor approval; application required	This experiential, field-based science course explores the physical, chemical, and biological components of freshwater ecosystems. Students conduct water quality testing, species identification, ecological monitoring, and population studies through hands-on work at local streams and rivers. The course integrates the Trout in the Classroom Program, allowing students to design, maintain, and troubleshoot a school-based trout hatchery and participate in fish release studies. Students collaborate with Colorado Parks and Wildlife, Blue Valley Ranch, the U.S. Forest Service, and local fly-fishing partners for authentic research and conservation experiences. *CMC Course: OUT-1360 Professional Fly Fishing Guide I (2 cr); this course is part of CMC's Outdoor Studies pathway and required for the Fly Fishing Guide Certificate.*

What do students say?

"Stream Ecology was the most fun class I've taken in all four years at this school. I learned skills you wouldn't in any other class, caught tons of fish, gained new interests in both fishing and fly tying, got really involved in the trout lab, and highly enjoyed the opportunity to hear from experienced guest speakers as well."

"Stream Ecology is great–you learn so much, its hands on, and it keeps you informed about our fish and watersheds."



PATHWAY:

Skilled Trades

Skilled Trades prepares students for high-demand careers in **construction, welding, fabrication, and technical trades**. Students learn blueprint reading, safety, tool use, carpentry, welding, and project management through hands-on lab experiences. The pathway provides students with industry-aligned skills and certifications that prepare them for apprenticeships, technical programs, and high-demand careers in the skilled trades.

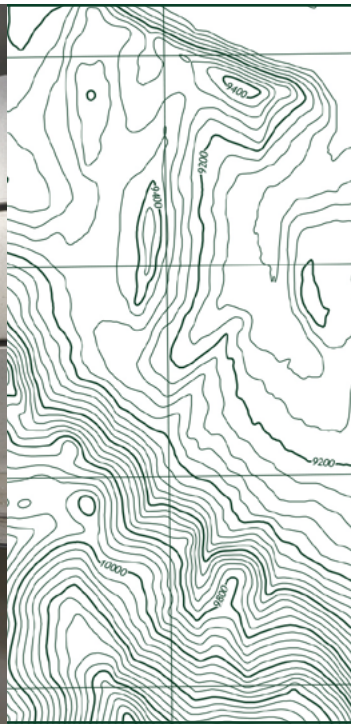
The following topics are included in this pathway:

- Welding
- Construction
- Carpentry
- Electrical/Mechanical Trades,
- Advanced manufacturing

Other courses which support this pathway:

- Welding I/II
- Careers in Construction
- DL Welding





“Join something that you love.

I found my passion for welding, which I didn’t have a mind to do before the Pathways courses. Getting hands-on learning can help you fall in love with what you’re doing and help you find passion for your future.”

—Chris Gutierrez-Oliva, class of 2025

Thanks to our community partners for their support of this pathway:

» Summit County Builders Association
» Careers in Construction Colorado
» EPIC
» ColdFire Steel
» Coffman Construction
» Backcountry Mechanical
» American Electric
» Green Mountain Contractors

The following industry certifications are offered in this pathway:

» HBI PACT core
» OSHA 10

Legend: 9 Recommended grade (9th–12th) 2s Duration (semesters) Ⓡ Required for SHS graduation R-IB Required for IBDP $ Fee

Course name	Credits	Prerequisites	Description
Careers in Construction Tech 1 (Dual Language) 10-12 1s	1 SHS credit	None	Introduces students to the fundamentals of carpentry and residential construction. Partnering with Careers in Construction Colorado and the Summit County Builders Association, students learn tool use, measurement, planning, safety, and essential carpentry techniques while completing hands-on wood-working and building projects. Students earn workplace safety training and may have the opportunity to complete the OSHA-10 credential and an HBI industry certificate.
Careers in Construction Tech 2 10-12 1s	1 SHS credit	Careers in Construction Tech 1	Construction Tech 2 focuses on the full construction of a Tiny Home or Modular Home, collaborating daily with local contractors who volunteer as expert mentors. Semester 1 emphasizes framing, windows, and doors; Semester 2 builds skills in siding, roofing, electrical, plumbing, drywall, and finish carpentry. Students gain hands-on experience aligned with industry expectations and build valuable industry connections for summer employment.
Welding 1 (& Dual Language Welding 1) 10-12 1s $ *$30 (materials vary)*	1 SHS credit	None	Welding 1 is a beginner-friendly course for students interested in metalworking and fabrication. Students learn MIG welding, metal cutting, grinding, project design, and material preparation while completing individual welding projects. Safety and shop professionalism are emphasized daily. No prior welding experience required.
CMC Welding 2 10-12 1s	1 SHS credit 4 CMC credits	Welding 1 or instructor approval	Students advance their skills in SMAW (stick welding), oxy-acetylene torch use, and metal preparation. The course prepares students for American Welding Society–aligned skills and counts toward the CMC Basic Welding & Cutting Certificate. Students may earn CMC dual enrollment credit with qualifying placement scores. *CMC Course: WEL-1004 Basic Shielded Metal Arc II (4 cr); this course is part of the CMC Skilled Trades pathway.*
CMC Welding 3 11-12 1s	1 SHS credit 4 CMC credits	Welding 2 or instructor approval	Welding 3 will focus on oxy acetylene gas welding and TIG Welding . Completing Welding 2 and 3 fulfills the course requirements for the CMC Basic Welding & Cutting Certificate. *CMC Course: WEL-1002 Oxy-Fuel Joining Processes (4 cr); this course is part of the CMC Skilled Trades pathway.*
Welding 4 (Advanced Capstone) 11-12 1s $ *$30*	1 SHS credit 4 CMC credits	Welding 3 or instructor approval	Welding 4 is a fully self-directed, project-based advanced course for students who have completed Welding I–III. Students design, fabricate, and finish a personal capstone project demonstrating mastery of MIG, TIG, Stick, fabrication methods, metal shaping, and advanced finishing. *CMC Course: WEL-2050 Layout and Fabrication (4 cr); this course is part of the CMC Skilled Trades pathway.*



PATHWAY:

Outdoor Leadership

Leveraging the unique outdoor environment of Summit County, this pathway **develops leadership, teamwork, and technical skills for careers in outdoor recreation and adventure industries.** Students participate in field-based learning, wilderness training, and industry certifications while exploring guiding, ski and snowboard technologies, environmental stewardship, and outdoor education. High student demand reflects a passion for applying classroom learning in real outdoor settings.

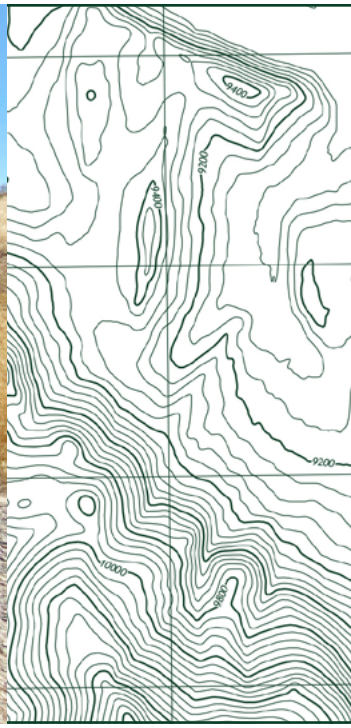
The following topics are included in this pathway:

- Guiding
- Rescue Services
- Ski Industry
- Outdoor Education
- Recreation Management

Other courses which support this pathway:

- Outdoor Ed Fall
- Wilderness First Aid
- Ski/Snowboard Tech I





“Find joy within learning, even if it’s difficult.

Fill your schedule as full as you can and be open to people. Have something you’re passionate about that you’re working toward.”

—Olivia Thompson, class of 2025

Thanks to our community partners for their support of this pathway:

» Project Bike Tech
» Summit Fire and EMS
» Red, White and Blue Fire Protection District
» Colorado Adventure Guides
» Colorado Mountain College
» Arapahoe Basin Ski Area
» US Forest Service - White River National Forest, Dillon Ranger District
» Friends of Dillon Ranger District (FDRD)

The following industry certifications are offered in this pathway:

» Bicycle Technician Level 1
» Wilderness First Aid (WFA) certification
» CPR certification

Legend: 9 Recommended grade (9th–12th) 2s Duration (semesters) Ⓡ Required for SHS graduation R-IB Required for IBDP $ Fee

Course name	Credits	Prerequisites	Description
Exploration Outdoor Recreation 9 1s	1 SHS credit	None	This introductory course explores the field of outdoor recreation, including common activities, recreation settings, and the management and policy issues that shape natural resource-based recreation. Students examine the outdoor recreation experience and learn how public lands and recreation programs are planned, managed, and accessed. Learning is applied through a project-based experience in which students design realistic and safe outdoor adventures, emphasizing planning, safety, environmental ethics, and responsible recreation.
Outdoor Leadership 11-12 1s $ *Optional avalanche course costs*	1 SHS credit	Instructor permission; WFA	This course introduces students to the skills and judgment required for effective outdoor leadership. Students develop competencies in navigation, survival skills, wilderness cooking, backpacking, snow travel, climbing fundamentals, and risk management through hands-on field experiences. Emphasis is placed on trip planning, group dynamics, decision-making, communication, minimal-impact practices, and environmental ethics. Learning is applied through authentic outdoor experiences, including ropes course challenges and overnight expeditions. *Students may earn concurrent enrollment credit aligned to Colorado Mountain College Outdoor Leadership coursework.*
Wilderness First Aid (WFA) 10-12 1s	1 SHS credit, 1 CMC credit	None	Students learn essential backcountry medical skills, including patient assessment, trauma response, environmental injury care, and emergency decision-making. Successful students earn an industry-recognized Wilderness First Aid certification and CPR training. This course prepares students for jobs in outdoor recreation, camps, guiding, or ski patrol and serves as a pathway toward Wilderness First Responder (WFR) certification. *CMC Course: OUT-2043 Wilderness First Aid (1 cr); the course prepares students for future EMS and OUT courses; the credit is not transferable.*
Ski/Snowboard Technician 1 11-12 1s	1 SHS credit 2 CMC credits	None	In partnership with Christy Sports, this hands-on course trains students in ski and snowboard tuning, repair, binding adjustments, and equipment knowledge. Students follow shop procedures and gain the skills needed for entry-level employment in ski rental or retail operations. Recommended in conjunction with the SHS Internship program. *Concurrent enrollment is available. CMC Courses: SKB-1006 Ski & Board Repair & Tuning I (1 cr) and SKB-1007 Ski & Board Tuning II (1 cr); these courses are part of the CMC Action Sports and Ski and Snowboard Business pathways.*

Legend: 9 Recommended grade (9th–12th) 2s Duration (semesters) Ⓡ Required for SHS graduation R-IB Required for IBDP $ Fee

Course name	Credits	Prerequisites	Description
Ski/Snowboard Business & Manufacturing 11-12 1s	1 SHS credit	Ski/Snowboard Tech 1	This entrepreneurship and manufacturing course guides students through the full process of designing, building, and marketing custom skis. Students work in teams to develop a manufacturing-based business, complete market research, create client partnerships, manage production, and deliver custom-made skis. The course emphasizes business planning, customer service, supply chain management, and hands-on manufacturing. Offered in partnership with Christy Sports. *Concurrent enrollment is available. CMC Courses: SKB-1008 Ski & Board Repair & Tuning III (1 cr) and ASI-2011 ASI Production Lab; these courses are part of the CMC Action Sports Industry and Ski and Snowboard Business pathways.*
Bike Technician 1 11-12 1s	1 SHS credit 1 CMC credit	None	Students learn foundational bicycle mechanics, including assembly, wheel work, drivetrain adjustment, repair techniques, and trail-side maintenance. Industry guests and community partners provide applied learning and exposure to local bike shops. Students gain the skills needed for personal bike care or entry-level shop positions. *Concurrent enrollment is available.CMC Course: ASI-1011 Bicycle Mechanic I (1 cr); this course is part of the CMC Action Sports Industry pathway.*
Bike Technician 2 11-12 1s	1 SHS credit, 2 CMC credits	Bike Tech 1	This advanced course expands on skills from Bike Tech 1 with deeper learning in wheel truing, hydraulic systems, suspension basics, precision adjustments, and advanced assembly. Students complete a community service project refurbishing bikes for donation. *Concurrent enrollment is available. CMC Course: ASI-1012 Bicycle Mechanic II (2 cr); this course is part of the CMC Action Sports Industry pathway.*

What do students say?

"The world is changing rapidly. Summit School District equips students with the skills to lead the way." #TrailblazersOfTomorrow


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