

Fossil Ridge High School

Course Guide



2023 – 2024



Print date: December 15, 2022

Refer to web-version of this guide for updated and current information on courses.

www.frhscourseguide.org

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Key to Course Symbols



FRCC Concurrent Enrollment Course



CU – Succeed Concurrent Enrollment Course

PSD Graduation Requirements

Your Fossil Ridge transcript will show your status in meeting these requirements.

PSD Graduation Requirements			
Category	Required Credits	Typical Grade(s) Taken	Sample Selective College Minimum Admission Requirements
Math & Computer Science	30 (3 years)	9 th – 12 th	30 – 40 credits (3 – 4 years)
Language Arts	40 (4 years)	9 th – 12 th	40 credits (4 years)
Science	30 (3 years)	9 th – 12 th	20 – 30 credits (2-3 years)
Civics / Government	5 (1/2 year)	12 th	20 – 30 credits (2-3 years) total of Social Studies classes
U.S. History	10 (1 year)	11 th	
Social Studies	10 (1 year)	9 th - 10 th	
World Language / Culture	10 (1 year)	9 th – 12 th	20 – 30 credits (2 – 3 years)
Fine & Applied Arts	10 (1 year)	9 th – 12 th	
Economics	5 (1/2 year)	11 th – 12 th	
Personal Finance	5 (1/2 year)	10 th – 12 th	
Humanities	5 (1/2 year)	10 th – 12 th	
Wellness	15 (1½ year)	9 th – 12 th	
Electives	65 (6 ½ years *)	9 th – 12 th	
	240 credits (total minimum required to graduate)		
Note: The PSD minimum graduation requirements represent the minimum standard needed to graduate from high school. Students are encouraged to maximize their time in high school and take additional courses of academic rigor and interest areas. Students are also encouraged to be mindful of college admission requirements and are supported in researching colleges of interest.			

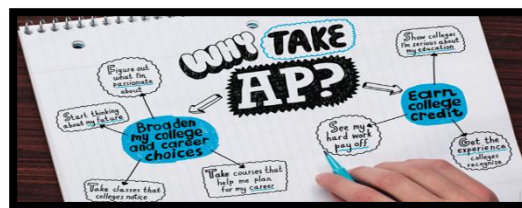
Courses by Graduation Requirement



CIVICS/GOVERNMENT (5 credits)			
7270 American Government		7275 AP US Government	
ECONOMICS (5 credits)			
7234 AP Microeconomics	7233 AP Macroeconomics		1923 Introduction to Economics
7230 Economics		7236 Economics of Social Issues	
FINE & APPLIED ARTS (10 credits)			
ART/PHOTOGRAPHY			
1211 Two Dimensional Design	1212 Three Dimensional Design	1213 Design A	1214 Design B
1240 Drawing	1225 Digital Drawing & Painting	1241 Advanced Drawing	1280 Painting
1281 Advanced Painting	1320 Pottery	1322 Advanced Pottery	1330 Sculpture
1331 Advanced Sculpture	1605 Digital Media A	1530 Digital Media B	1270 Jewelry
1271 Advanced Jewelry	1300 Photography 1	1310 Creative Photography	1311 Advanced Photography
1484 AP Art & Design		1340 Studio Art History	
COMPUTER TECHNOLOGY & DESIGN			
1751 Game Design A	9539CEFRHS FRCC Complete Web Authoring		9810CEFRHS FRCC Web Editing Tools
ENGINEERING SCIENCES & TECHNOLOGY			
2223 Architecture	2210 FRCC Mechanical Design 1	7731CEFRHS Solidworks/Mechanical	2293 Principles of Manufacturing
2283 Metal and Machining Fabrication A	2284 Metal and Machining Fabrication B	2287 Metal and Machining Fabrication II A	2292 Metal and Machining Fabrication II B
2279 Principles of Engineering and Technology	2205 Robotics & Automated Systems A	2206 Robotics &Automated Systems B	2282 Woodworking Technology A
2233 Woodworking Technology B	2237 Woodworking Technology II A	2240 Woodworking Technology II B	
FAMILY AND CONSUMER SCIENCE			
4340 Interior Design 1 - Residential	4341 Interior Design 2 - Commercial	4390 Fashion Design and Merchandising 1	4391 Fashion Design and Merchandising 2
4440 Catering 1		4441 Catering 2	
MUSIC			
2800 Concert Band	2805 Symphonic Band	2806 Select Symphonic Band	2795 Wind Ensemble
2891 Percussion Ensemble		2830 Select Stage Band	2840 Stage Band
2559 Treble Choir	2558 Select Treble Choir (Fossil Fusion)	2713 Select Choir (SaberCat Singers)	2540 Concert Choir (Fossil Ridge Singers)
2730 FR Jazz Choir (Tenth Bass)	2692 Orchestra 9	2865 Concert Orchestra	2860 Symphony Orchestra
2772 AP Music Theory / Humanities	2512 Music Production & Technology 1	2513 Music Production & Technology 2	2560 Guitar
THEATER/MEDIA			
1373 Acting in Film	5245 Foundations of Production Design & Performance	1373 Performance & Communications	5223A Technical Theatre A
5223B Technical Theatre B	5224A Set Design A	5224B Set Design B	1379A Sound Engineering & Design A
1379B Sound Engineering & Design B	1939A Capstone: Production & Managerial Arts A	1939B Capstone: Production & Managerial Arts B	5290S1 Television Production A
5290S2 Television Production B	1373S1 Filmmaking A	1373S2 Filmmaking B	

HUMANITIES (5 credits)			
1374 Film Studies: Intro to Film Analysis	3740 American Humanities	3770 Classical Humanities	3780 Contemporary Humanities
3800 World Humanities Asia	2985 Music Theory and Composition	2772 AP Music Theory / Humanities	3742 Native American Humanities
1340 Studio Art History			
LANGUAGE ARTS (40 credits)			
5030 English 9	5034 CP English 9	5412 World Literature & Composition	5413 CP World Literature & Composition
5861 AP Language & Composition	5863 US Literature & Composition	5430 Modern Literary Perspectives	5860 AP Composition & Literature
5440 British Literature & Composition	1374 Film Studies: Intro to Film Analysis	5220 Creative Writing HS English	5293 Sports Broadcasting
5270 Journalism 1	5280 Journalism 2	5250 Basic Speech	5900 Argumentation & Debate
5910 Forensics	5417 World Literature 10 PBL	1769 Business Communications	9325CEFRHS FRCC English Composition 1
9334CEFRHS FRCC English Composition 2	9330CEFRHS FRCC Introduction to Literature 1	1378CEFRHS FRCC Literature and Film	
MATH & COMPUTER SCIENCE (30 credits)			
6125 Pre-Algebra (Ramp up)	6230 Algebra 1A/1B	6240 Geometry A/B	6226 Algebraic Concepts
6250 Algebra 2	6275CEFR College Algebra	6276CEFR College Trig & Analytic Geometry	6290 AP Calculus Ab
6291 AP Calculus Bc		6297 Calculus III	6296 Differential Equations
6142CEFR FRCC Intro to Statistics	6295 AP Statistics	6146 Data Analysis & Probability	6246 Discrete Mathematics
1831CEFRCC FRCC Fundamentals of Accounting	1751 Game Design A	9539CEFRHS FRCC Complete Web Authoring	9810CEFRHS FRCC Web Editing Tools
6320 Computer Science Foundations A	6330 AP Computer Science A	6331 AP Computer Science Principles	6333 Worked Based Learning: Computer Science
PERSONAL FINANCE (5 credits)			
1930 Personal Finance	1930CEFRHS FRCC Personal Finance		4210 Life Management
SCIENCE (30 credits)			
6710 Biology	6709 CP Biology	6760 AP Biology	6809 Earth Systems Science
6790 Chemistry	6804 Advanced Chemistry	6800 AP Chemistry	6881 Astronomy
6830 Anatomy and Physiology	6770 Environmental Science	6774 AP Environmental Science	6820 Physics
6822 AP Physics 1	6826 AP Physics C	6850 Cell Biology & Genetics	6748 Biotechnology
6840 Botany and Microbiology	6860 Zoology	6880 Aerospace Engineering	6805 Geospace Science
3075S1 Introduction to Health Science A			
SOCIAL STUDIES (10 credits)			
7210 World Geography and Culture	7227 AP Human Geography		7243CECU AP World History
7250 World History		7226 CP World History	
U.S. HISTORY (10 credits)			
7220 U. S. History		7225 AP U.S. History	

WELLNESS (15 credits)			
3204 Physical Education 1	3026 Health & Wellness	3010 Beginning Weight Training	3012 Advanced Weight Training
3044 Beginning Dance	3067 Group Fitness	3077 Team Sports	3590 Integrated Physical Education
3006 Yoga and Fitness	3600 Adventure Physical Education	4041 Teen Choices	4410 Culinary Nutrition
3068 Athletic Weights & Conditioning		3069 Athletic Weight Training	
WORLD LANGUAGE / CULTURE (10 credits)			
4710 French Level 1	4750 French Level 2	4790 French Level 3	4820 French Level 4
4820CEFR French Level 4	4850 AP French 5	4720 German Level 1	4760 German Level 2
4800 German Level 3	4830 German Level 4	4860 AP German 5	4730 Spanish Level 1
4770 Spanish Level 2	4810 Spanish Level 3	4840 Spanish Level 4	4871 AP Spanish 5
4886 Spanish Advanced Communication	7226 CP World History		7250 World History
ELECTIVES * (65 credits)			
9731 Accounting Principles I		8140 Peer Helper	
8107 Ambassadors		2209 Principles of Construction	
7246 AP Psychology		1763CEFR FRCC Principles of Marketing A / B	
1760 Business and Marketing Essentials		7240 Psychology	
4310 Child and Adolescent Development		8188CEFRCC FRCC Social Media for Business	
7281 Current Issues		7242 Sociology	
4019 Education Exploration		3030 Sports Medicine	
1770 Entrepreneurship		3032 Sports Officiating	
1763B Ethical Leadership / Leadership		5225A Stage Production Management A	
1758 Event Marketing/Communications		5225A Stage Production Management B	
1830 Fundamentals of Accounting A		9946 STEM Academy: Seminar	
9950FR9 SaberCat 101/9950FR9L SaberCat 101/Leadership		9938 STEM Academy Survey	
2781 History of Rock and Roll		8199 Strategic Marketing	
5075 Integrated Drama		4023 Teacher Cadet	
7290 Interpersonal Relationships		6333 Work-Based Learning: Computer Science	
1750 Intro to PC Applications		2213 Work Based Learning: Construction	
1750CEFRHS FRCC Intro to PC Applications		1392 Work-Based Learning: Design and Multimedia Arts	
1851 Introduction to Business		2214 Work Based Learning: Engineering (STEM)	
7451 CEFRCC Intro to Sociology		2294 Work Based Learning: Manufacturing	
1775 Leadership / RIDGE Leadership		1393 Work-Based Learning: Production and Managerial Art	
7214 Leadership By Design		1774 Work-Based Learning: Seminar (PaCE)	
1910 Legal Environment of Business		5130 Yearbook Production	
2810 Marching Band			



WHAT IS ADVANCED PLACEMENT?

Advanced Placement courses provide the opportunity for students to take college-level courses and exams while enrolled in high school. The program offers 37 courses at 19,000 high schools. Faculty members on college campuses report that students who challenge themselves with Advanced Placement Courses are better prepared for rigorous academic work. Selective universities like to see between three and six Advanced Placement Courses on a high school transcript (9-12). Of course, this is a general statement and students must consult with the admissions office of the college they are interested in to inquire about specifics.

COLLEGE CREDIT FOR AP CLASSES

The College Board suggests that applicants for college who have taken Advanced Placement courses in high school are much better prepared for the rigor of college courses. Every year, hundreds of students enter college with credit from Advanced Placement Exams, which are given in the spring. Please be aware that students may take Advanced Placement courses and decide not to take the Advanced Placement Exam in the spring. Additionally, students may choose to take an Advanced Placement Exam without taking the Advanced Placement course.

If students score a 3 (Qualified), 4 (Well qualified), or 5 (Extremely well qualified) on an exam, this credit may allow students to accelerate into upper-level courses or complete an undergraduate degree in fewer than four years – a considerable financial savings. By entering college with AP Credits, one may have the time to move into upper level courses, pursue a double-major, or study abroad. Colleges have various standards about what score is acceptable. College Admissions Directors prefer to see rigorous course selections such as Advanced Placement on transcripts even if students do not receive an “A” in those courses.

AP ENDORSED DIPLOMA

Fossil Ridge High School offers an Advanced Placement Endorsed Diploma to recognize and celebrate the academic achievements of Advanced Placement Scholars.

To be eligible, students must complete at least five (5) 10 credit Advanced Placement courses. Two 5 credit AP courses may be combined to make a 10 credit course. The courses must be completed within three (3) distinct academic disciplinary areas with a grade of B or higher. Academic disciplines include: The Arts, English, Mathematics, Science, Social Science, and World Languages. Students do not have to meet an overall grade point average to be eligible for this diploma endorsement.

ADJUSTED GPA FOR AP COURSES

Students can earn GPA bonus points of .002 for each credit earned in Advanced Placement (AP) and International Baccalaureate (IB) courses in which students receive an A, B, or C grade. Fossil Ridge offers only AP courses.

THE ADJUSTED GPA SYSTEM:

- Allows students to earn grade point averages (GPAs) higher than 4.0
- More accurately reflects student effort and achievement in both GPA and class rank
- Encourages and draws attention to rigorous performance
- Rewards students for taking high-level courses
- Does not penalize broad course selection (i.e. electives)
- Creates more competitive student transcripts for college admission and scholarships
- Reduces the likelihood for multiple valedictorians (student with highest GPA in each high school, and one highest from the IB program, will be designated valedictorians).

One example of how the adjusted GPA bonus point system will be calculated:	Total Student credit earned		275
	GPA before bonus points applied		3.86
	Total AP or IB credits earned	35	
	Multiplied by bonus factor of .002	x .002	
	<u>Bonus points earned</u>	<u>.07</u>	<u>+ .07</u>
	GPA after bonus points are applied		3.93

AP Courses Offered at Fossil Ridge HS

Computer Technology & Design



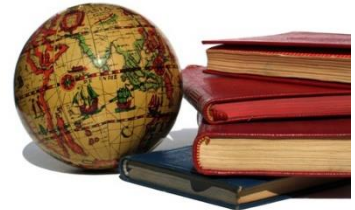
AP Computer Science A
AP Computer Science Principles

Fine Arts



*AP Music Theory **
AP Art & Design

Humanities



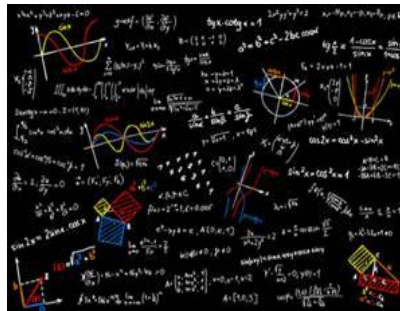
*AP Music Theory **

Language Arts



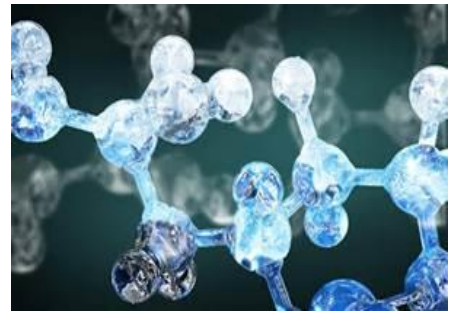
AP Language & Composition
AP Literature & Composition

Mathematics



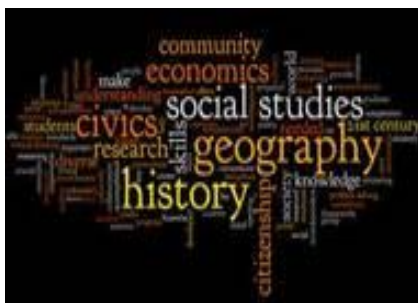
AP Calculus Ab
AP Calculus Bc
AP Statistics

Science



AP Biology
AP Chemistry
AP Environmental Science
AP Physics 1
AP Physics C

Social Studies



AP Government & Politics, US
AP Human Geography
AP Macro Economics
AP Micro Economics
AP Psychology
AP US History
AP World History

World Language & Culture



AP French
AP German
AP Spanish Language



Located on the campus of
Timnath Middle High School
(970) 488-4400
futureslab@psdschools.org

'23-'24 Pathways

Each offers 20 or 40 high school credits, plus Concurrent Enrollment college credit, industry credential(s) or both.

Advanced Manufacturing

Aviation

Business & Innovation

Culinary & Hospitality

Design Build

Early Childhood Education

Information Technology

Multimedia Arts

Natural Resource Management

Networking & Cybersecurity

Design Principles

The design principles reflect the mission and vision of the Futures Lab, allowing a consistent experience for all learners.

AUTONOMY

Learning is self-directed, with student ownership of path and product.

DEEP LEARNING

Learning is an iterative process that is immersive, complex, and messy.

CONNECTION

Learning connects concepts, skills, and people in novel ways.

AUTHENTIC WORK

Learning impacts the world beyond the classroom walls.

Check out our student-made promo video!



Schedule

Pathways are available for any high school student in Poudre School District. They are held at our building in half-day bundles of courses in either 1st or 2nd semester: AM 9:15am-12:15pm / PM 12:45pm-3:45pm. Bussing is provided for all students to/from their base high school.

Example Pathway structure at Futures Lab:

	Mon	Tue	Wed	Thur	Fri
90 min	Pathway Course 10 credits				
90 min	Futures Lab Seminar (9 weeks) 5 credits Language Arts Option for Graduation Credit (9 weeks) 5 credits in Electives, Personal Finance, Math, Humanities, or Language Arts				Flex Wed: -ICAP -Blended time -Off-site projects

How to Register

Step 1 Review our pathway options on our website

Step 2 Choose your pathway and contact your high school counselor with your selection.



2023-2024 Pathway Options

Visit fut.psdsschools.org for detailed individual course descriptions and updated information. All pathways are half-day.



Advanced Manufacturing

Up to 20 credits available

Prepare for a high-needs industry with this unique opportunity to learn knowledge and skills using state of the art equipment.

The Advanced Manufacturing Pathway will develop learners' specialized skills and enable them to enter an industry in need of talented individuals. Learners will foster the knowledge and skills for proper application of principles of manufacturing through hands-on learning with cutting-edge industry equipment. Local industry partners are excited to work alongside learners in this pathway to provide authentic and relevant experiences.

Advanced Manufacturing Semester 2:

- 2416ACEAIHS Introduction to Manufacturing A, 5 cr Elective
- TBD Safety Manufacturing Environment, 5 cr Electives
- TBD Metals & Machining, 5 cr Elective
- 2410 Futures Lab Seminar, 5 cr Lang Arts

Concurrent Enrollment/Certification:

- 6 credits Alms Community College



Aviation

Up to 40 credits available

Come fly with us! Aviation is a growing industry with huge workforce needs over the next decade. Learners with interest in professional piloting, air traffic control, unmanned aerial systems, or aeronautics can start growing their skills to get a step ahead in the field.

Learners in the Aviation Pathway will earn their FAA Part 107 UAS Commercial Certification. This will allow learners to immediately enter the growing drone field through opportunities in research, mapping, and videography. Learners will operate, maintain, and design unmanned aerial vehicles developing both engineering and flight skills.

Aviation Semester 1:

- 2014 Intro to Aviation & Aerospace, 5 cr Elective
- 2423A UAS Flight Training, 5 cr Fine & Applied Arts
- 2410 Futures Lab Seminar, 5 cr Lang Arts

Aviation Semester 2:

- 2423B Aviation of UAS Drone Technology B
- 2461 Special Industrial Applications of Drone Technology, 5 cr Elective

Concurrent Enrollment/Certification:

- 3 credits Aims Community College
- FAA107 UAS license



Business & Innovation

Up to 40 credits available

Apple, Amazon, Disney, and Microsoft all started with a wild idea in their founder's garage. Come develop, validate, incubate, and accelerate your wild ideas in the Business and Innovation Pathway.

Learners in this zero-barrier pathway will develop an entrepreneurial mindset in this start-up style hub for innovation. Young entrepreneurs will partner with local businesses and community mentors, work in high-performing teams, and learn the ins and outs of project management. Learners will foster the courage to take on the unexpected and to ultimately develop businesses for a better world.

Business Incubator Semester 1:

- 2424A Intro to Entrepreneurship A, 5 cr Electives
- 2424B Intro to Entrepreneurship B, 5 cr Electives
- 2410 Futures Lab Seminar, 5 cr Lang Arts

Innovator's Studio Semester 2:

- 2435 School-Based Enterprise A, 5 cr Fine & Applied Arts
- 2436 School-Based Enterprise B, 5 cr Fine & Applied Arts

Industry Certification:

- Entrepreneurship & Small Business through Certiport



Culinary & Hospitality

Up to 40 credits available

Join us to delve into the relationship between a guest and a host, a connoisseur and a chef, and a tourist and a guide through the Culinary and Hospitality Pathway.

In this pathway, learners will experience how to manage, market, and operate a variety of aspects within the hospitality industry.

Students interested in taking this pathway for the entire year will have the opportunity for Work-Based Learning credit and will help operate a real catering business.

Culinary & Hospitality Semester 1:

- 2427A ProStart 1A, 5 cr Fine & Applied Arts
- 2427B ProStart1B, 5 cr Fine & Applied Arts
- 2410 Futures Lab Seminar, 5 cr Lang Arts

Culinary & Hospitality Semester 2:

- 2428A ProStart 2A, 5 cr Fine & Applied Arts
- 2428B ProStart 2B, 5 cr Fine & Applied Arts
- 2462 Work-Based Learning: Culinary & Hospitality

Industry Certification:

- ServSafe Food Manager & Food Handler
- ProStart 1 & ProStart 2 through the National Restaurant Association



Design/Build

Up to 40 credits available

Ever wonder how cities are planned, parks and communities are designed, and buildings are built? Explore the wonders of the natural world and built environment in the Design Build pathway at Futures Lab. Learners will focus on the fundamentals of design theory, architectural hand-drafting skills, and proper safety precautions. After learning how to conceptualize and design small buildings and parks, they'll research how to build them! Students will take field trips to construction sites and design firm studios to help inform their own builds.

Students continuing into the second semester of this pathway will focus on the skills necessary to create a functioning and safe structure. They'll learn the principles of electrical, plumbing, and HVAC systems necessary in the world of construction and craft skills.

Design/Build Semester 1:

- 2413A Introduction to Drafting & Design Concepts A, 5 cr Fine & Applied Arts
- 2456 Futures Lab Principles of Construction, 5 cr Electives
- 2410 Futures Lab Seminar, 5 cr Lang Arts

Design/Build Semester 2:

- 2457 Futures Lab Construction Technology, 5 cr Fine & Applied Arts
- 2460 Mechanical, Electrical, & Plumbing Systems, 5 cr Fine & Applied Arts

Industry Certification:

- OSHA 10 safety certificate



Early Childhood Education

40 credits | Grades 11-12

Successful educators are lifelong learners. In this pathway, you will learn the fundamentals of early childhood education and will earn 12 college credits towards a degree in Education. Important outcomes for this pathway will include a strong understanding of a growth mindset, conversational diplomacy, professional collaboration, creating inclusive classrooms, and brain development.

ECE - Yearlong:

- 2465A - Futures Lab Intro to ECE, 5 cr Lang Arts
- 2465CEUNHS Intro to Early Childhood Education, 5 cr Lang Arts, 3 UNC credits
- 2478 - Introduction to Guidance Strategies, 5 cr Electives
- 2478CEUNHS Guidance Strategies for Children, 5 cr Elective, 3 UNC credits
- 2443 Work-Based Learning: Education
- 2410 Futures Lab Seminar, 5 cr Lang Arts

Concurrent Enrollment/Certification:

- 6-12 credits University of Northern Colorado



Information Technology

Coding, up to 40 credits available:

Everyone can code. No experience required. Learners in our coding pathway develop the technical and professional skills to create mobile apps to share with the world.

This pathway places learners in an authentic workplace environment where they will develop and apply problem-solving, collaboration, and communication skills and understand industry best practices, like paired programming, the agile development cycle, and rapid iteration. Young developers in this pathway build their app portfolios, analyze errors in their code, and adjust to solve problems.

After building their baseline of proficiency in Swift, learners have the opportunity to further refine their development and entrepreneurial skills by forming development teams and building apps for actual customers.

Coding Semester 1:

- 2425ACEAIMS MobileMakers A, 5 cr Math & Computer Science
- 2425BCEAIMS MobileMakers B, 5 cr Math & Computer Science
- 2410 Futures Lab Seminar, 5 cr Lang Arts

Coding Semester 2:

- 2426A MobileMakers Studio A, 5 cr Fine & Applied Arts
- 2426A MobileMakers Studio A, 5 cr Fine & Applied Arts

Industry Certification:

- App Development via Swift

Networking & Cybersecurity, up to 40 credits available:

Prepare to enter a competitive, emerging field with a variety of unique and highly valued real world opportunities.

Learners in the Networking and Cybersecurity Pathway will complete challenging hands-on tasks that will prepare them for careers in an evolving industry. Learners will diagnose security risks, manage networks, and delve into the world of ethical hacking. The ability to earn multiple industry valued certifications will enable learners to compete for attractive positions within the field.

After developing their skills and mindsets, learners will have the opportunity to intern with professional information technology services to further apply their skills in the real world.

Networking & Cybersecurity Semester 1:

- 2463A - A+ Certification Preparation A
- 2463BCEAHS A+ Certification Preparation B, 5 cr Math & Computer Science, 3 Aims credits
- 2410 Futures Lab Seminar, 5 cr Lang Arts

Networking & Cybersecurity Semester 2:

- 2433 Cybersecurity A
- 2468CEAIHS Networking 1, 5 cr Math & Computer Science, 3 cr Aims

Concurrent Enrollment/Certification:

- 9 credits Aims Community College
- Microsoft Office Specialist certification
- CompTIA A+ certification
- Red Hat Certified Systems Administrator certification



Multimedia Arts

Audio Production & Management, up to 40 credits available:

Interested in audio engineering, podcast production, or sound mixing? Come join a community of audio enthusiasts and take a deep dive into the inner workings of the audio industry.

Learners in the Audio Production and Management Pathway will develop technical skills with an emphasis on production. Learners will be able to explore potential audio production careers such as audio for radio and television broadcasting, audio for video and film, audio for animation and game design, music production and live sound, and additional entrepreneurial opportunities and skill sets.

Graphic Design, up to 40 credits available:

Develop your skills and creative confidence while earning certifications in industry-standard software packages! Students in the yearlong Multimedia & Graphic Design Pathway will explore a range of multimedia software applications and develop basic multimedia skills. All courses in this pathway apply directly toward the Associate of Applied Science degree in Graphic Design from FRCC. Students will have the opportunity to sit for their certifications in Adobe Photoshop, Illustrator, and InDesign.



Natural Resource Management

Up to 20 credits available

Living in Colorado, we are surrounded by a complex system of natural resources and wildlife. More than ever, it's important to learn how to cultivate and protect our natural surroundings. This new pathway at Futures Lab will introduce students to the fundamentals of forestry and Colorado wildlife through a mix of classroom and outdoor learning. Students will learn the principles of dendrology, forest science, and forest fire behavior. Field activities to various locations are included to enhance the students' understanding of Colorado native birds, insects, reptiles, amphibians, mammals and fish.

Audio Production Semester 1:

- 2420 Foundations of Design, Multimedia Arts, & Digital Communications, 5 cr Fine & Applied Arts
- 2421 Principles of Audio, 5 cr Fine & Applied Arts
- 2410 Futures Lab Seminar, 5 cr Lang Arts

Audio Production Semester 2:

- 2419A Digital Audio Technology A, 5 cr Fine & Applied Arts
- 2419B Digital Audio Technology B, 5 cr Fine & Applied Arts

Concurrent Enrollment/Certification:

- Ableton

Multimedia & Graphic Design Semester 1:

- 2454CEFRHS Adobe Photoshop, 5 cr Fine & Applied Arts, 3 FRCC credits
- 2455CEFRHS Introduction to Visual Communications, 5 cr Fine & Applied Arts, 3 FRCC credits
- 2410 Futures Lab Seminar, 5 cr Lang Arts

Multimedia & Graphic Design Semester 2:

- 2466CEFRHS Adobe Illustrator, 5 cr Fine & Applied Arts, 3 FRCC credits
- 2467CEFRHS Adobe In-Design, 5 cr Fine & Applied Arts, 3 FRCC credits

Concurrent Enrollment/Certification:

- 12 credits towards FRCC Certificate in Fundamentals of Multimedia Tech

Natural Resources Semester 1:

- 2441 Futures Lab Principles of Natural Resource Management, 5 cr Science
- 2458CEFRHS Introduction to Forestry, 5 cr Science, 3 FRCC credits
- 2410 Futures Lab Seminar, 5 cr Lang Arts

Natural Resources Semester 2:

- 2459 FL Wildlife & Fish Management, 5 cr Science
- 2459CEFRHS Colorado Wildlife, 5 cr Elective, 3 FRCC credits

Concurrent Enrollment/Certification:

- 6 credits towards FRCC Certificate in Forestry, Wildlife, & Natural Resources

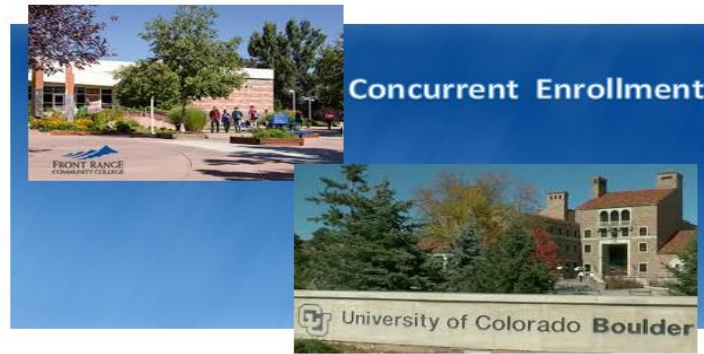
Optional Graduation Requirements:

In addition to pathway classes listed in this guide, Futures Lab offers a variety of classes to allow flexibility in home high school schedules and provide more opportunities for credit towards graduation.

You won't be requesting these courses in StudentVue.

We anticipate offering classes in a variety of graduation buckets to give our students more flexibility in their home high schools. You'll have the opportunity to register for these classes this spring.





These are the classes that students can take for free or reduced rate college credit while in high school. While some award CU and CSU credit, the majority award Front Range Community College credit, which transfers smoothly to most in-state and out-of-state colleges. Extra paperwork and logistics are required for enrollment in these classes.

Concurrent & Dual Enrollment Credit:

- *Front Range Community College: (Concurrent Enrollment Credit): College Now: High School Select, Campus Select, ASCENT. *PSD covers the cost of tuition. Students will need to cover the cost of books and fees.*
- *CU Succeed (Dual Enrollment Credit): Students can earn credits through approved classes offered in high school and deemed equivalent in content and academics standards to courses taught on the CU Denver campus. Students enrolled in Dual Credit courses through CU Succeed will incur the full cost of tuition, fees, and books.*



ASCENT PROGRAM, FALL 2023-SPRING 2024



What is ASCENT?

ASCENT stands for Accelerating Students through Concurrent Enrollment. It is a “fifth year program” that allows seniors to remain enrolled in high school and take a fifth year consisting entirely of college classes.

How does ASCENT benefit students?

A student may continue taking college classes at Front Range Community College or AIMS Community College, while PSD pays their college tuition.

How do students qualify for the program?

Students must:

- Remain enrolled at the high school for a fifth year (they do not attend classes at the high school)
- Be under the age of 21.
- Have a GPA of at least 2.0.
- Be on track to meet all high school graduation requirements by the end of their senior year.
- Have completed, or be on track to complete, at least 12 college credits prior to the completion of the 12th grade year. Aims and FRCC classes accepted. *AP and IB courses are accepted, but only if the student (not the high school counselor) has the AP or IB credit transcribed on the college transcript.
- Not be in need of basic skills or remedial course work as defined by the Colorado Commission on Higher Education’s (CCHE) remedial education policy.
- Have satisfied the minimum prerequisites for the college courses before enrollment in the course, including having the required test scores.
- Complete an Individual Career and Academic Plan (Family Connection - Naviance) with your high school counselor.
- Apply to and be accepted into the Colorado postsecondary institution where they plan to take college classes.
- Have not participated in the ASCENT program in previous years.

CAMPUS SELECT PROGRAM, FALL 2023 - SPRING 2024



Students enroll in classes at the FRCC campus with other FRCC college students. These classes are taught at the college level and students are expected to meet all college-level expectations. Students are expected to select classes with their high school counselors, following the student’s career and academic plan (ICAP), but the College Now department is happy to help provide course information, degree requirements, etc.

Students can choose Campus Select courses from the FRCC catalog. For a complete list of offerings, visit <http://www.frontrange.edu/programs-and-courses/catalog-and-class-schedule>



CU Succeed Courses are college credit courses taught at Fossil Ridge High School. Families pay tuition for the following courses and students will receive college credit upon successful completion.

See department listings for specific course information

6290 – AP Calculus Ab

6291 – AP Calculus Bc

6297 – Calculus III

6296 – Differential Equations

7243 – AP World History



High School Select

High School Select Courses are Front Range Community College courses taught by a teacher from Fossil Ridge High School. Students receive free college credit with successful completion of the course. Students need to follow the steps for registration to FRCC and fill out required paperwork in order to enroll in the course.

FRCC (Front Range Community College)

1750 CEFRRHS – FRCC Introduction to PC Applications

Open to grades 9, 10, 11 & 12

1763 CEFRRHS – FRCC Principles of Marketing A / B

Open to grades 11 & 12

1831 CEFRRHS – FRCC Fundamentals of Accounting B

Open to grades 9, 10, 11 & 12

8188 CEFRRHS – FRCC Social Media for Business

Open to grades 10, 11 & 12

1930 CEFRRHS - FRCC Personal Finance

Open to grades 9, 10, 11 & 12

9539 CEFRRHS - FRCC Complete Web Authoring

Open to grades 9, 10, 11 & 12

9810 CEFRRHS - FRCC Web Editing Tools

Open to grades 9, 10, 11 & 12

9325 CEFRRHS – FRCC English Composition 1

Open to grade 12

9324 CEFRRHS – FRCC English Composition 2

Open to grade 12

9330 CEFRRHS – FRCC Introduction to Literature 1

Open to grades 11 & 12

1378 CEFRRHS – FRCC Literature and Film

Open to Grades 11 & 12

7451 CEFRRHS – Intro to Sociology 1

Open to grades 11 & 12

6275 CEFRRHS – College Algebra

Open to grades 9, 10, 11 & 12

6276 CEFRRHS – College Trigonometry & Analytic Geometry

Open to grades 9, 10, 11 & 12

6142 CEFRRHS – FRCC Intro to Statistics

Open to grades 10, 11 & 12

See your counselor for further information

OPPORTUNITIES FOR HIGH SCHOOL STUDENTS

www.frontrange.edu/lc-collegenow



HIGH SCHOOL SELECT

Students take FRCC courses at their home high school for both high school and college credit.

CAMPUS SELECT

Students take college courses on FRCC campus, with college students, for both high school and college credit.

ASCENT

A 5th year high school program that allows students to participate in concurrent enrollment the year after 12th grade.

The High School Programs office at FRCC is proud to offer concurrent enrollment opportunities to Poudre School District high school students. Concurrent enrollment allows students to earn both high school and college credit for FRCC courses at no tuition cost to the student. All courses are college-level and students are expected to meet college-level expectations. Students may be responsible for the cost of textbooks, fees, and/or course materials.

FRCC Concurrent Enrollment allows students to experience college courses that fall in line with their Individual Career and Academic Plans (ICAPs) while still in high school. Whether exploring career and technical fields or taking general education or transfer courses, FRCC Concurrent Enrollment can help you get a jump start on your future!

WHAT COURSES CAN I TAKE?

FRCC offers many degree and certificate programs. For a full list of programs, please visit <https://www.frontrange.edu/programs-and-courses/academic-programs>. Many FRCC courses are guaranteed to transfer to all public institutions of higher learning in Colorado. Visit www.frontrange.edu/guaranteedtransfer for more information about the Colorado guaranteed transfer program.

HOW DO I GET STARTED?

Interested?? Talk to your high school counselor today for more information about the application and enrollment process.

HIGH SCHOOL SELECT PROGRAM: FALL 2023 – SPRING 2024

High School Select is a concurrent enrollment program that provides high school students with the opportunity to take FRCC classes at their home high school for both high school and college credit. Tuition is covered by the school district.

Class offerings are determined in partnership with the school district, FRCC, and each individual high school. If interested, students should talk with their high school counselor.

Visit www.frontrange.edu/lc-collegenow/programs/high-school-select/available-classes to see which courses are available at your school.

CAMPUS SELECT PROGRAM: FALL 2023 – SPRING 2024

Students enroll in classes at the FRCC campus with other FRCC college students. These classes are taught at the college level and students are expected to meet all college-level expectations. Students are expected to select classes with their high school counselors, following the student's career and academic plan (ICAP), but the FRCC High School Programs office is happy to help provide course information, degree requirements, etc.

Students can choose Campus Select courses from the FRCC catalog. For a complete list of offerings, visit <http://www.frontrange.edu/programs-and-courses/catalog-and-class-schedule>.

ASCENT PROGRAM: FALL 2023 – SPRING 2024

The ASCENT program allows you to take college coursework immediately following your senior year of high school. Tuition at the 2023-2024 community college rate will be paid to Front Range Community College or AIMS Community College by Poudre School District on your behalf for courses pertaining to the degree or certificate program indicated on your ICAP.

Students are expected to pay for any fees and books.

How do students qualify for the program?

Students must:

- Remain enrolled at the high school for a fifth year (they do not attend classes at the high school)
- Be under the age of 21.
- Have a GPA of at least 2.0.
- Be on track to meet all high school graduation requirements by the end of their senior year.
- Have completed, or be on track to complete, at least 12 college credits prior to the completion of the 12th grade year. Aims and FRCC classes accepted. *AP and IB courses are accepted, but only if the student (not the high school counselor) has the AP or IB credit transcribed on the college transcript.
- Not be in need of basic skills or remedial course work as defined by the Colorado Commission on Higher Education's (CCHE) remedial education policy.
- Have satisfied the minimum prerequisites for the college courses before enrollment in the course, including having the required test scores.
- Complete an Individual Career and Academic Plan (Family Connection - Naviance) with your high school counselor.
- Apply to and be accepted into the Colorado postsecondary institution where they plan to take college classes.

ASSOCIATES (AA) DEGREE PATHWAY

FOSSIL RIDGE HIGH SCHOOL



Earn your Associates of Arts (AA) college degree from Front Range Community College (FRCC) while you are in high school! A minimum of 15 FRCC/25 PSD credits must be completed on the FRCC campus. This is an example pathway. . **These courses are taught at FRHS and some may be taken any year if pre-requisites have been met.*

Contact the FRCC academic advising office to design a custom AA pathway.

<https://frontrange.smartcatalogiq.com/en/current/catalog/program-information/degree-information/degree-descriptions/aa-degree/>

	9TH GRADE	10TH GRADE	11TH GRADE	12TH GRADE
ENGLISH/ COMMUNICATIONS 9 FRCC CREDITS			COM 1150 Public Speaking LIT 1015 Intro to Literature*	ENG 1021 English Composition I* ENG 1022 English Composition II*
ARTS, HISTORY & HUMANITIES 9 FRCC CREDITS			HIS 1210 US History to Reconstruction FRE 2011 French Language III*	HUM 1021 Humanities Early Civilization HIS 1220US History since the Civil War
SOCIAL & BEHAVIORAL SCIENCES 6 FRCC CREDITS		GEO 1005 World Regional Geography SOC 1002 Introduction to Sociology*		ECO 1001 Economics of Social Issues
MATH 3 CREDITS			MAT 1240 Math for Liberal Arts OR MAT 1340 College Algebra*	
NATURAL AND PHYSICAL SCIENCE 6 FRCC CREDITS			BIO 1111 General College Biology/lab	CHE 1011 Intro to Chemistry/lab
ELECTIVES 21 FRCC CREDITS	CIS1018 Intro to PC Applications*	BUS 1016 Personal Finance* MAR 1055 Social Media Marketing*	Choose 3 FRCC/5 PSD credits of elective coursework	Choose 12 FRCC/20 PSD credits of elective coursework
TOTAL CREDITS	5 PSD Credits 3 FRCC Credits	20 PSD Credits 12 FRCC Credits	35 PSD Credits 21 FRCC Credits	40 PSD Credits 24 FRCC Credits

AP SCORES EQUIVALENCY TO FRCC CREDIT

As of May 2021

Students can earn credit for taking Advanced Placement (AP) exams (administered by The College Board) and earning a score of 3, 4 or 5. The evaluation is based on a copy of the score report received from the issuing agency. Transfer credit is not awarded for Advanced Placement if the student has completed equivalent coursework. For more information on earning AP credit, visit The College Board

<u>Test Name</u>	<u>Test Score</u>	<u>FRCC Course/Credit Equivalence</u>
AP Art History	3	GTP 983 (3 credits)
AP Biology	3	BIO 111 (5 credits)
AP Biology	4+	BIO 111 (10 credits)
AP Biology – no lab	3+	SCI 105 (3 credits)
AP Calculus Ab	3+	MAT 201 (5 credits)
AP Calculus Bc	3	MAT 201 (5 credits)
AP Calculus Bc	4+	MAT 202 (10 credits)
AP Chemistry	3,4	CHE 111 (5 credits)
AP Chemistry	5	CHE 111 (10 credits)
AP Chemistry – no lab	3+	GTP 992 (3 credits)
AP Chinese Language & Culture	3+	CHI 111, CHI 112 (13 credits)
AP Comparative Government & Politics	3+	POS 225 (3 credits)
AP Computer Science A	4+	CSC 160 (4 credits)
AP Computer Science AB	4+	CSC 161 (4 credits)
AP English Language & Composition	3+	ENG 121 (3 credits)
AP English Literature & Composition	3+	LIT 115 (3 credits)
AP Environmental Science	3+	ENV 101 (4 credits)
AP European History	3	HIS 101 (3 credits)
AP European History	4+	HIS 102 (6 credits)
AP French Language & Culture	3+	FRE 111, FRE 112, FRE 211 (13 credits)
AP French Literature	3	FRE 211 (3 credits)
AP French Literature	4	FRE 211, FRE 212 (6 credits)
AP French Literature	5	FRE 211, FRE 212, FRE 275 (9 credits)
AP German Language & Culture	3+	GER 111, GER 112, GER 211 (13 credits)
AP Human Geography	3+	GEO 106 (3 credits)
AP Italian Language & Culture	3+	ITA 111, ITA 112, ITA 211 (13 credits)
AP Japanese Language & Culture	3+	JAP 111, JAP 112, JAP 211 (13 credits)
AP Latin	3+	LAT 111, LAT 112, LAT 211 (13 credits)
AP Latin	4+	LAT 111, LAT 112, LAT 211, LAT 212 (16 credits)
AP Macroeconomics	3+	ECO 201 (3 credits)
AP Microeconomics	3+	ECO 202 (3 credits)
AP Music Theory	3+	MUS 110, MUS 111, MUS 112, MUS 113 (8 credits)
AP Physics 1	3+	PHY 111 (5 credits)
AP Physics 2	3+	PHY 112 (5 credits)
AP Physics C: Electricity and Magnetism	3+	PHY 212 (5 credits)
AP Physics C: Mechanics	3+	PHY 211 (5 credits)
AP Psychology	3+	PSY 101, PSY 102 (6 credits)
AP Spanish Language & Culture	3+	SPA 111, SPA 112 (10 credits)
AP Spanish Literature	3+	SPA 211 (3 credits)
AP Spanish Literature	4+	SPA 211, SPA 212 (6 credits)
AP Statistics	3+	MAT 135 (3 credits)
AP Studio Art: 2-D Design	3+	ART 131 (3 credits)
AP Studio Art 3-D Design	3+	ART 132 (3 credits)
AP Studio Art Drawing	3+	ART 121 (3 credits)
AP United States Government & Politics	3+	POS 111 (3 credits)
AP United States History	3+	HIS 121 (3 credits)
AP United States History	4+	HIS 121, HIS 122 (3 credits)
AP World History	3+	HIS 111, HIS 112 (6 credits)

Leadership



FRHS Student Leadership Academy

The FRHS Student Leadership Academy at Fossil Ridge High School is designed to provide students with coursework and other educational experiences that will develop and expand their servant leadership skills. These experiences will equip them with the tools to become highly successful in life after high school and in future community involvement.

The focus of the FRHS Student Leadership Academy will be to develop individual student leaders in the areas of culturally responsible citizenship, equitable practices, collaboration, communication, peer education, goal setting, group processes, as well as business, organizational and project management skills. Students in this Academy will be required to take an active role both in the high school and the greater Fossil Ridge community.

SaberCat 101/Leadership	9th Grade Only	5 Credits 1st or 2nd Quarter
Ambassadors	10th - 12th Grade	5 Credits 1st Quarter
RIDGE Leadership	10th - 12th Grade	10 Credits 1st & 2nd Quarter
Leadership by Design	10th - 12th Grade	10 Credits 3rd & 4th Quarter
Extracurricular		
Link Crew**	11th - 12th Grade	Extracurricular Yearlong
FRHS Equity Collective**	9th - 12th Grade	Extracurricular Yearlong

9950FR9 - SABERCAT 101

9950FR9L - SABERCAT 101 - Leadership

Credits:	5
Prerequisites:	None
Meets requirement(s):	Elective
Open to Grades:	9

SaberCat 101: supports the successful transition of Freshmen to Fossil Ridge High School. Students will learn academic and social-emotional skills, explore personal and career interests, and cultivate positive relationships with peers, adults, and the school community at Fossil. SaberCat 101 introduces Freshmen to available resources while nurturing connections to school, community, and self.

SaberCat 101 - Leadership: The focus is to develop freshmen students in the areas of responsible citizenship, communication, goal setting, group processes, as well as collaborative organizational skills and project management. This class will also build on skills that are provided to every transitioning 8th grade student, through our SaberCat 101 curriculum (academic and social-emotional skills, exploration of personal and career interests, and cultivation of positive relationships with peers). Students in the Leadership Foundations course will be required to take an active role both in high school and the greater Fossil Ridge community. Previous leadership experience in classes/clubs/athletics/etc. is NOT required! All students are welcome to sign up for this course that are interested in learning more about leadership.

8107 Ambassadors

Credits:	10 (5 credits each Q1 and Q2)
Prerequisites:	Advisor Approval
Meets requirement(s):	Elective
Open to Grades:	10, 11, & 12

Ambassadors is a servant leadership class focusing on school and community outreach and building leadership capacity for students. Activities include peer education on sexual assault and harassment prevention, teen dating violence prevention, mental health awareness and suicide prevention, and welcoming new students to our school. Ambassadors serve as mentors to peers in our school as well as to elementary aged students at local elementary schools. This is an application and interview-based class. It is a requirement of class that students leave campus to participate in activities at other schools and sites; students are responsible for their own transportation. ***Ambassadors will meet as a class for 1st quarter only. However, there will be meetings, presentations, and other work throughout the year. Being an Ambassador is a year-long commitment.***

7214 Leadership By Design

Credits:	10 (5 credits each Q3 and Q4)
Prerequisites:	Advisor Approval
Meets requirement(s):	Elective
Open to Grades:	10, 11 & 12

What does it take to be a leader in today's society? "Leadership by Design" addresses that question by helping students define what is important to them applying past lessons in leadership to their lives and aspirations and developing their own leadership style. Students explore the topic by analyzing examples of historical leadership, business leadership and sports leadership. Individuals who take this class have an opportunity to practice what they have learned in a real life experience that is meant to test their leadership skills. The class is designed to have an impact on any student's future plans and is not just for those currently holding leadership positions. ***AT FRHS: Leadership By Design is a Project-Based Learning class that empowers students to identify social issues and to improve those situations through video production, writing, and social media work. This class will co-produce the end of year all-school celebration.***

1775 Leadership / RIDGE Leadership

Credits:	10 (5 Credits each Q1 and Q2)
Prerequisites:	Advisor Approval
Meets requirement(s):	Elective
Open to Grades:	10, 11 & 12

RIDGE Leadership is a co-curricular course for students who seek out opportunities to expand, learn and practice all areas of leadership. Our focus will be servant leadership through collaboration in order to plan events, promote diversity and inclusion, create a family atmosphere, and increase awareness and acceptance of all populations. As a team, Ridge Leaders will become skilled in the art of leadership and apply their knowledge to improve the climate, culture, and spirit of FRHS. This will be achieved by planning exciting activities for school, building strong relationships, and engaging in inclusivity/equity training. RIDGE Leadership will be responsible for activities including Homecoming Week, Diversity Day, Adopt a Family, Make a Wish and Unity Day. This class will also participate in Give Next and No Place For Hate curriculum. Studied areas of leadership include (but are not limited to) emotional intelligence, understanding your WHY, global citizenship and effective communication. Within this organization students will work collaboratively with the advisors and may be required to develop a personal leadership plan, a personal leadership portfolio and submit project proposals. Students may also be asked to serve on school and district committees to represent student body perspectives. ***RIDGE Leadership will meet as a class for 1st semester only. However, there will be meetings, presentations, and other work throughout the year. Being a Ridge Leader is a year-long commitment.***

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8140R Peer Helper

Credits:	5
Prerequisites:	Teacher approval required (contact Integrated Services staff for approval)
Meets requirement(s):	Elective
Open to Grades:	10, 11 & 12

Students will act in the capacity of teaching paraprofessionals with a focus on supporting students with special needs. Students will be specifically assigned to classes where the population is entirely made up of special needs students. Students may be assigned to individually support special needs students in mainstream classes. ***At FRHS: Students serving as peer helpers support students with special needs engage in school, work on class assignments, activities and follow class instructions. Peer helpers assist their classmates and fellow students with social and emotional skills and/or academic needs. Peer helper students will be actively engaging in activities that require positive peer-to-peer support and role modeling in class. Peer helpers can support students in academic classes, Integrated PE, Integrated Art, and/or Integrated Drama. See the course catalog to register for Peer Helper in Integrated PE, Integrated Art called Design A, or Integrated Drama. Peer Helper courses require teacher approval.***



Business Department

Business Administration <i>Possible Careers: Accounting, Legal Services, Corporate Management, Administrative Services, Banking, Financial Advisor</i> *Participation in DECA and FBLA strongly encouraged	Introduction to Business (5 cr.) Intro to PC Apps (5 cr.) Legal Environment of Business (5 cr.) Personal Finance (5 cr.) Intro to Economics (5 cr.) Business Communications (5 cr.) *5 credits of language Arts Fundamentals of Accounting A , (5 cr.) FRCC Fundamentals of Accounting B (5 cr.) *FRCC Concurrent Enrollment, 5 credits of Math Entrepreneurship (5 cr.) *DECA and/or FBLA required Ethical Leadership and Leadership(10 cr.) *FBLA is Required Work-Based Learning – Business
Marketing <i>Possible Careers: Public Relations, Advertising, Sales, Market Research, Brand Manager</i> *Participation in DECA strongly encouraged	Introduction to Business Business and Marketing Essentials (5 cr.) FRCC Social Media for Business (5 cr.) *FRCC Concurrent Enrollment Event Marketing/Communications (5 cr.) Personal Finance (5 cr.) Business Economics (5 cr.) Entrepreneurship (5 cr.) *DECA and/or FBLA required Strategic Marketing and Intro to Economics (10 cr.) *DECA is Required Principles of Marketing A and B (10 cr.) *FRCC Concurrent Enrollment, DECA/FBLA req'd Work-Based Learning: Business
Computer Technology <i>Possible Careers: Web Designer, Animator, Graphic Designer, Software Development</i> *Participation in FBLA strongly encouraged	Intro to PC Apps (5 cr.) *FRCC Concurrent Enrollment available Web Authoring and Web Editing Tools (5 cr. each) *FRCC Concurrent Enrollment Game Design A & B (5 cr. each) Work-Based Learning: Computer Science
Graduation Requirements	Finance (5 cr.) *PFL Graduation Requirement FRCC Finance (5 cr.) *PFL Graduation Requirement Intro to Economics (5 cr.) *Economics Graduation Requirement

BUSINESS AND MARKETING CONCURRENT ENROLLMENT CLASSES

The Fossil Ridge Business Department has an exciting partnership with Front Range Community College that allows students to take college courses for FREE at FRHS with the FRCC High School Select Program.

These courses are taught by FRHS teachers

Students earn 3 college credits in each of the courses listed below:

FRCC Personal Finance – FRCC BUS 116
 FRCC Fundamentals of Accounting B – FRCC ACC 101
 FRCC Introduction to PC Applications – FRCC CIS 118
 FRCC Social Media for Business – FRCC BUS 155
 FRCC Principles of Marketing A & B – FRCC MAR 216
 FRCC Complete Web Authoring – FRCC CWB 1010
 FRCC Web Editing Tools – FRCC CWB 1030

BENEFITS OF CONCURRENT ENROLLMENT

- ❖ FREE college credit in high school
- ❖ Many of the FRCC course credits transfer to 4-year universities
- ❖ College credit in high school without passing a high-stakes exam (AP/IB/CLEP)
- ❖ College admissions offices see evidence of rigorous coursework on high school transcripts

For more information visit:

<https://www.frhscourseguide.org/concurrent-enrollment.html>

1830 Fundamentals of Accounting A

Credits: 5
Prerequisites: None
Meets requirement(s): Elective
Open to Grades: 9, 10, 11 & 12

Introduces accounting fundamentals with emphasis on the procedures and practices used in business organizations. Major topics include the accounting cycle for service and merchandising companies, including end-of-period reporting. **At FRHS 9th graders are strongly recommended to take Intro to Business before Fundamentals of Accounting A.**

1831CEFRHS FRCC Fundamentals of Accounting B



Credits: 5
Prerequisites: Fundamentals of Accounting A
Meets requirement(s): Math
Open to Grades: 9, 10, 11 & 12

This second-level accounting class goes beyond what is learned in Accounting 1 by introducing students to special journals, preparing payroll and payroll taxes, corporate accounting, and accounting for a merchandising business. QuickBooks Pro automated accounting will supplement every chapter in the textbook. Students completing this class will be prepared to be an entry-level bookkeeper or data entry clerk. **At FRHS students will have the opportunity to earn a National Bookkeeper Certification.**

9731 Accounting Principles I

Credits: 5
Prerequisites: Completion of Fundamentals of Accounting A and B
Meets requirement(s): Elective
Open to Grades: 9, 10, 11 & 12

ACC 121: This course introduces accounting principles for understanding the theory and logic that underlie procedures and practices for business organizations. Major topics include the accounting cycle for service and merchandising companies, internal control principles and practices, notes and interest, inventory systems and costing, and plant and intangible asset accounting.

1923 Introduction to Economics

Credits: 5
Prerequisites: None
Meets requirement(s): Economics
Open to Grades: 10, 11 & 12

This course is a survey of economics. It is designed as a beginning economics class. The course covers economics theories, supply and demand, national income accounting, money and banking, market structures and contemporary economic issues.

1910 Legal Environment of Business

Credits: 5
Prerequisites: None
Meets requirement(s): Elective
Open to Grades: 9, 10, 11 & 12

Emphasizes public law, regulation of business, ethical considerations, and various relationships existing within society, government, and business. Specific attention is given to economic regulation, social regulation, labor-management issues, environmental issues, and contract fundamentals. This course analyzes the role of law in social, political, and economic change business environments. **At FRHS: This class will prepare students interested in extracurricular mock trial competitions.**

1763BS1 Ethical Leadership

Credits: 5
Prerequisites: Business class and Business teacher approval
Meets requirement(s): Elective
Open to Grades: 11 & 12

This course is a principles-based ethics course introducing students to key leadership and ethical knowledge and skills, including integrity, trust, accountability, transparency, fairness, respect, rule of law, and viability. Throughout the course, students apply ethical principles to contemporary, real-world situations that teens and young adults often encounter in school, at home, with friends, and in entry-level job positions. They examine the concept of ethical leadership and strengthen their leadership and ethical decision-making skills through the planning, implementation, and evaluation of a class service-learning project. **At FRHS students will plan a March of Dimes Event, partner with the city of Fort Collins to create hundreds of kites for their annual Kites in the Park Festival and manage the school concession stand. There may be a class fee for trips and supplies. ***

1770 Entrepreneurship

Credits: 5
Prerequisites: Strategic Marketing and Business teacher approval
Meets requirement(s): Elective
Open to Grades: 11 & 12

Teaches entrepreneurs planning skills from the development of a conceptual business to an actual comprehensive business plan. This practical approach includes one-on-one counseling with the instructor and professional volunteer counselors. Guest speakers are an integral part of the course. Additional topics include marketing strategies and tactics, liability protection, growth management, financial management and projections, networking, and funding options. **This class requires participation in DECA and/or FBLA and will have a class fee to cover membership dues *.**

1930 Personal Finance

1930CEFRHS Personal Finance



Credits: 5
Prerequisites: None
Meets requirement(s): Personal Finance
Open to Grades: 10, 11 & 12

Surveys the basic personal finance needs of most individuals and introduces the personal finance tools useful in planning and instituting a successful personal financial philosophy. The course emphasizes the basics of budgeting, buying, saving, borrowing, career planning, investing, retirement planning, estate planning, insurance, and income taxes.

1851 Introduction to Business

Credits: 5
Prerequisites: None
Meets requirement(s): Elective
Open to Grades: 9, 10, 11 & 12

Introduces the application of fundamental business principles to local, national, and international forums. This course examines the relationship of economic systems, governance, regulations, and law upon business operations. It surveys the concepts of career development, business ownership, finance and accounting, economics, marketing, management, operations, human resources, regulations, and business ethics.

1769 Business Communications

Credits: 5
Prerequisites: None
Meets requirement(s): Language Arts
Open to Grades: 10, 11 & 12

Emphasizes effective business writing and cover letters, memoranda, reports, application letters, and resumes. This course includes the fundamentals of business communication and an introduction to international communication.

1750 Intro to PC Applications

1750CEFRHS Intro to PC Applications



Credits: 5
Prerequisites: None
Meets requirement(s): Elective
Open to Grades: 9, 10, 11 & 12

This course introduces basic computer terminology, file management, and PC system components. Provides an overview of office application software including word processing, spreadsheets, databases, and presentation graphics. Includes the use of a web browser to access the Internet.

1760 Business and Marketing Essentials

Credits: 5
Prerequisites: None
Meets requirement(s): Elective
Open to Grades: 10, 11 & 12

An introductory business and marketing course enables students to acquire a realistic understanding of business processes and activities. Students examine fundamental economic concepts, the business environment, and primary business activities. They develop an understanding of and skills in such areas as customer relations, economics, emotional intelligence, financial analysis, human resources management, information management, marketing, operations, professional development, and strategic management. Throughout the course, students are presented ethical dilemmas and problem-solving situations for which they must apply academic and critical-thinking skills. **At FRHS: *Involvement in DECA is highly recommended.***

8199 Strategic Marketing / 1923 Intro to Economics

Credits: 10
Prerequisites: Teacher approval. DECA membership is required
Meets requirement(s): Elective / Economics
Open to Grades: 10, 11

This project-based course allows students to develop and demonstrate management level marketing skills. The primary focus is on the principles and practices of marketing research; including creating research design, data collection and interpretation, and communicating the results. Students will choose a business to complete a market research project for which will include a persuasive presentation. DECA membership is required. **At FRHS: *There is a course fee for this class.* ***

1763CEFR FRCC Principles of Marketing A and B



Credits:	10
Prerequisites:	Strategic Marketing/Intro To Economics and teacher approval
Meets requirement(s):	Elective
Open to Grades:	12

Presents the analysis of theoretical marketing processes and the strategies of product development, pricing, promotion and distribution, and their applications to businesses and the individual consumer. **At FRHS: *There is a course fee for this class.*** *

1758 Event Marketing/Communications

Credits:	5
Prerequisites:	None
Meets requirement(s):	Elective
Open to Grades:	10, 11 & 12

Defines the importance and role of marketing, media, and public relations in the event planning industry. Identify marketing and communication tools such as social media, promotional events, networking, and blogs. Design a marketing plan to include target market research, communication tools, objectives, strategies, and implementation.

8188CEFRHS FRCC Social Media for Business



Credits:	5
Prerequisites:	None
Meets requirement(s):	Elective
Open to Grades:	10, 11, 12

Teaches students how to use social media as a business strategy and covers how to match that strategy with the goals of the business. This course addresses current trends, ethics, regulations, legal challenges, strategy, content development, and change management. This course helps students develop a better understanding of how marketing with social media is similar to and different from traditional marketing and how to best use online methods to further business goals.

5417 World Literature 10 PBL


Credits:	10
Prerequisites:	Introduction to Business (Marketing strongly recommended)
Co-requisite:	Also must be co-enrolled in Strategic Marketing/Intro To Economics (10 credits)
Meets requirement(s):	Language Arts (10 credits for World Literature 10 PBL)
Open to Grades:	10

This 10th grade project based English course is a year-long literature survey class that will be presented in a blended learning format. The class covers research, terminology, vocabulary building, test taking strategies, and presentation techniques. The course is written to Common Core standards and will challenge students to critically think about literacy and project-based learning. Students will involve themselves in self-assessment as well as in teacher guided practice and assessment throughout the class. The literature of the class includes selections from Nobel Prize in Literature and Pulitzer Prize winners and demonstrate advanced level communication skills. The primary focus is on the principles and practices of research, including creating research design, data collection and interpretation, and communicating the results. Students will utilize a project of their choosing to complete to demonstrate proficiency in the English 10 standards.

* See the [Schedule of Fees and Other Select Charges](#) for lab fees associated with this course



For more information: <https://sites.google.com/psdschools.org/cte/high-school/computer-science>



HS Computer Technology & Design

COMPUTER SCIENCE PATHWAY

Computer Science Foundations A
Game Design A
FRCC Complete Web Authoring
FRCC Web Editing Tools
AP Computer Science Principles
AP Computer Science A
Work-Based Learning: Computer Science

Related Careers:
Software Developer, Cyber Security Engineer, Data Scientist, Full Stack Web Developer, AI/Machine Learning Engineer, DevOps Engineer, Video Game Designer, Health Information Technician, Database Developer

Student Organizations: Future Business Leaders of America, Robotics

Certification Opportunities: Adobe Certified Associate and Microsoft Office Specialist

Also Available at FRHS: FRCC Introduction to PC Apps, Digital Design, Futures Lab Offerings (see counselor).

1750 Intro to PC Applications

1750CEFRHS FRCC Intro to PC Applications (May be taken for concurrent enrollment credit through FRCC)

Credits: 5 / 3 College Credits
 Prerequisites: None
 Meets requirement(s): Elective
 Open to Grades: 9, 10, 11 & 12

This course introduces basic computer terminology, file management, and PC system components. Provides an overview of office application software including word processing, spreadsheets, databases, and presentation graphics. Includes the use of a web browser to access the Internet. **At FRHS. Students have the opportunity to complete industry -recognized Microsoft Office Specialist certification exams with this course.**

1751 Game Design A

Credits: 5
Prerequisites: None
Meets requirement(s): Fine & Applied Arts, Math Computer Science
Open to Grades: 9, 10, 11 & 12

Game Design combines problem-solving techniques with computer game design and implementation to introduce the student to basic gaming and computer science concepts. Students design, implement, and test computer games using software that allows for basic game creation through a wide variety of game creation tools. **At FHRHS: The software includes Industry-standard software Adobe Creative Cloud, Dreamweaver and Photoshop. Software certifications (Adobe Certified Associate in Photoshop) may be an option for students completing this course.**

9539CEFRHS FRCC Complete Web Authoring

Credits: 5
Prerequisites: None
Meets requirement(s): Fine & Applied Arts, Math Computer Science
Open to Grades: 9, 10, 11 & 12

CWB 1010: Explores the complete set of web authoring skills using HTML and/or other languages. The course covers links, backgrounds, controlling text and graphic placement, tables, image maps and forms.

9810CEFRHS FRCC Web Editing Tools

Credits: 5
Prerequisites: Complete Web Authoring or Teacher Approval
Meets requirement(s): Fine & Applied Arts, Math Computer Science
Open to grades: 9, 10, 11 & 12

CWB 1030: Teaches the use of tools for Web page design and development. These tools are designed to make the creation of Web pages easy and consistent. With the use of editing tools, students will be able to build Web pages making use of forms, tables, frames, templates, Cascading Style Sheets (CSS), and layers. The student will also be able to easily publish and manage a Web site once it is created.

6320 Computer Science Foundations A

Credits: 5
Prerequisites: None
Meets requirement(s): Math Computer Science, Elective
Open to Grades: 9, 10, 11 & 12

Computer Science Foundations (CSF) is a course intended to provide students with exposure to various information technology occupations and pathways such as Networking Systems, Coding, Web Design, and Cybersecurity. Upon completion of this course, proficient students will be able to describe various information technology (IT) occupations and professional organizations. Moreover, they will be able to demonstrate logical thought processes and discuss the social, legal, and ethical issues encountered in the IT profession. Depending on the focus area, proficient students will also demonstrate an understanding of electronics and basic digital theory; project management and teamwork; client relations; causes and prevention of Internet security breaches; and writing styles appropriate for web publication. Upon completion of the CSF course, students will be prepared to make an informed decision about which Information Technology program of study to pursue.

6330 AP Computer Science A A/A B

Credits:	10
Prerequisites:	Computer Science Foundations A or teacher approval
Meets requirement(s):	Math & Computer Science
Open to grades:	10, 11 & 12

AP Computer Science A introduces students to computer science through programming. Fundamental topics in this course include the data design of solutions to problems, the use of data structures to organize large sets of data, the development and implementation of algorithms to process data and discover new information, the analysis of potential solutions, and the ethical and social implications of computing systems. The course emphasizes object-oriented programming and design using the Java programming language.

6331 AP Computer Science Principles

Credits:	10
Prerequisites:	Algebra 1, recommended Computer Science Foundations A
Meets requirement(s):	Math Computer Science
Open to Grades:	9, 10, 11 & 12

AP Computer Science Principles is an introductory college-level computing course. Students cultivate their understanding of computer science through working with data, collaborating to solve problems, and developing computer programs as they explore concepts like creativity, abstraction, data and information, algorithms, programming, the internet, and the global impact of computing. The class introduces students to the central ideas of computer science, instilling the ideas and practices of computational thinking and inviting students to understand how computing changes the world. The rigorous course promotes deep learning of computational content, develops computational thinking skills, and engages students in the creative aspects of the field. This course will help prepare students for the AP Computer Science Principles exam.

6333 Work-Based Learning: Computer Science

Credits:	5
Prerequisites:	None
Meets requirement(s):	Elective
Open to Grades:	9, 10, 11 & 12

Students build on prior knowledge and skills in the program of study to further develop and apply employability and technical skills that prepare them for success in future career and post-secondary education.

Engineering Sciences & Technology



The State of Colorado and the Colorado Community College System (CCCS) have provided updated guidance and requirements for our classes at FRHS. The table below outlines the recommended sequence of classes for each pathway. Students may take **one or more** of the classes listed for each year. They may also take any classes listed for previous years as long as they meet the prerequisites.

* Requires Prerequisite - refer to FRHS Course Guide for details

† Denotes 10 credit class. All other classes are 5 credits

Cohort model – See description below

<u>Grade Level</u>	<u>Engineering (STEM) Pathway</u>	<u>Manufacturing Pathway</u>	<u>Architecture & Construction Pathway</u>
9th (Level 1)	Principles of Engineering & Technology OR Robotics and Automation A OR Computer Science Foundations A	Principles of Manufacturing OR Principles of Manufacturing AND Metal and Machining Fabrication A*	Principles of Construction OR Principles of Construction AND Woodworking Technology A*
10th (Level 2)	STEM Survey FRCC Mechanical Design I* † AP Computer Science Principles † AP Computer Science A* Robotics and Automation B* Any class previously listed	Principles of Manufacturing* Metal & Machining Fabrication A* Metal & Machining Fabrication B* FRCC Mechanical Design I* Any class previously listed	Principles of Construction* Woodworking Technology A* Woodworking Technology B* FRCC Mechanical Design I* Architecture* Any class previously listed
11th (Level 3)	† STEM Seminar * Aerospace Engineering* FRCC Solidworks/Mechanical* Any class previously listed	Metal & Machining Fabrication II A* Metal & Machining Fabrication II B* FRCC Solidworks/Mechanical* Any class previously listed	Woodworking Technology II A* Woodworking Technology II B* FRCC Solidworks/Mechanical* Any class previously listed
12th (Level 4)	Work Based Learning: Engineering * Any class previously listed	Work Based Learning: Manufacturing * FRCC Welding Program* Any class previously listed	Work Based Learning: Architecture & Construction * Any class previously listed

Cohort model

This option is designed for students who are interested in a specific pathway and are willing to commit to taking 10 credits as a freshman. The benefits to this are:

- Students receive instruction in an optimal order that **maximizes skill development**
- There is **less repetition** of introductory activities leading to an improved student experience (more shop time)
- Skills are practiced multiple times and applied to multiple projects, thereby **improving student learning**
- Students complete both classes as a cohort allowing for more **meaningful student-student and student-teacher relationships**

A general description of the classes and skills for each cohort is listed below. See FRHS Course Guide for full course descriptions. Quarter 1 and Quarter 2 are simply generic titles. The FRHS master schedule will drive specifically when the classes will actually occur.

Manufacturing Cohort

<u>Quarter 1</u>	<u>Quarter 2</u>
Principles of Manufacturing	Metal and Machining Fabrication A
Skills/Projects <ul style="list-style-type: none"> • Layout skills applied to sheet metal project • GMAW/FCAW welding processes - stringer, 1F and 2F positions • Introductory machine and tool specific safety • CAD and Plasma Cutting Introduction • Introduction to metal lathe and CNC mill 	Skills/Projects <ul style="list-style-type: none"> • GMAW/FCAW welding processes - stringer bead, 1F, 2F and 3F positions. • Sheet Metal Project • Welding Fabrication Project • Metal lathe project and/or CNC mill project

Architecture and Construction Cohort

<u>Quarter 1</u>	<u>Quarter 2</u>
Principles of Construction	Wood Tech A
Skills/Projects <ul style="list-style-type: none"> • Understanding of basic construction terms, skills, and tools • Introductory machine and tool specific safety • Introduction to understanding drawings • General shop safety • Application of mathematical concepts. 	Skills/Projects <ul style="list-style-type: none"> • Development of skills and machine/equipment knowledge • Additional machine and tool specific safety • Introduction to fine woodworking techniques • Application of mathematical concepts.

Alphabetical List of Full Course Descriptions

6880 Aerospace Engineering

Credits:	5
Prerequisites:	Principles of Engineering and Technology OR Teacher Approval
Meets requirement(s):	Science
Open to Grades:	10, 11 & 12
Course Fee: `	Yes

This course is an interdisciplinary survey of the major aspects of aviation and space technology. Students study the history of flight and aerospace through research projects and various activities such as flight simulation, scale, model construction, wind tunnel research and flight ground school topics. Science and math are used in the study of principles of flight, aircraft control, propulsion, navigation, rocketry and space travel. Career opportunities in the aerospace field are explored with field trips and guest speakers. **At FRHS: Students are strongly encouraged to complete Engineering Drafting 1 before enrolling in this course to demonstrate understanding of engineering, drafting, & 3-D modeling concepts.**

6330 S1/S2 AP Computer Science A A/A B

Credits:	10
Prerequisites:	Computer Science Foundations A, AP Comp. Sci. Principles OR Teacher approval
Meets requirement(s):	Math & Computer Science
Open to grades:	10, 11 & 12

AP Computer Science A introduces students to computer science through programming. Fundamental topics in this course include the data design of solutions to problems, the use of data structures to organize large sets of data, the development and implementation of algorithms to process data and discover new information, the analysis of potential solutions, and the ethical and social implications of computing systems. The course emphasizes object-oriented programming and design using the Java programming language.

2223 Architecture

Credits:	5
Prerequisites:	None
Meets requirement(s):	Fine & Applied Arts
Open to Grades:	10, 11 & 12

Architecture is designed for advanced drafters to develop skills in the field of architectural engineering. This class will offer the experience in the development and design of structures using architectural design software. Students will develop drafting skills through reading architectural blueprints and generating floor plans for real world applications. **At FRHS: This class has a focus on hand drawing concepts and the uses of AutoDesk Revit Architectural Design Software. Upon completion students will take the AutoDesk Certified User (ACU) Revit Exam as their final. By passing this exam students will earn an industry recognized credential and fulfill a graduation requirement.**

6320 Computer Science Foundations A

Credits: 5
Prerequisites: None
Meets requirement(s): Math & Computer Science
Open to Grades: 10, 11 & 12

Computer Science Foundations (CSF) is a course intended to provide students with exposure to various information technology occupations and pathways such as Networking Systems, Coding, Web Design, and Cybersecurity. Upon completion of this course, proficient students will be able to describe various information technology (IT) occupations and professional organizations. Moreover, they will be able to demonstrate logical thought processes and discuss the social, legal, and ethical issues encountered in the IT profession. Depending on the focus area, proficient students will also demonstrate an understanding of electronics and basic digital theory; project management and teamwork; client relations; causes and prevention of Internet security breaches; and writing styles appropriate for web publication. Upon completion of the CSF course, students will be prepared to make an informed decision about which Information Technology program of study to pursue.

2210CEFRHS - FRCC Mechanical Design I

Credits: 5
Prerequisites: None
Meets requirement(s): Fine & Applied Arts
Open to Grades: 10, 11 & 12

Introduces basic non-parametric 3D concepts to build confidence in 3D thinking and progresses to three-dimensional parameters. The student learns to construct, modify, and manage complex parts in 3D space as well as to produce 2D drawings from the 3D models. **At FRHS: *This class has a focus on foundational hand drawing concepts and the use of SolidWorks 3D modeling software. Students will have the opportunity to earn an industry certification in SolidWorks (CSWA). Concurrent enrollment is currently not available at FRHS but may be earned retroactively.***

7731CEFRHS - FRCC Solidworks / Mechanical

Credits: 5
Prerequisites: FRCC Mechanical Design I
Meets requirement(s): Fine & Applied Arts
Open to Grades: 10, 11 & 12

Introduces parametric 3D concepts to build confidence in 3D thinking and progresses to three-dimensional parameters. The student learns to construct, modify, and manage complex parts in 3D space as well as to produce 2D drawings from the 3D models. **At FRHS: *This class is for students who want to continue developing their SolidWorks skills. The focus is on advanced SolidWorks featuring. Students will have the opportunity to pass additional industry certifications (CSWP). Concurrent enrollment is currently not available at FRHS but may be earned retroactively.***

2283 Metal and Machining Fabrication A

Credits: 5
Prerequisites: Principles of Manufacturing
Meets requirement(s): Fine & Applied Arts
Open to Grades: 9, 10, 11 & 12
Course Fee: Yes

Metal Fabrication and Machining provides the knowledge, skills, and certifications required for equal employment opportunities in the metal production industry. This course is designed to teach students industry skills applicable to welding, sheet metal, and machining occupations. Technical Concepts and skills in this course include shielded and gas metal arc welding, hand, and power tools common in metal manufacturing, machine tool operation including automated welding machines, lathe and mill machine processes, metallurgy, and sheet metal processes.

2284 Metal and Machining Fabrication B

Credits: 5
Prerequisites: Metal and Machining Fabrication A
Meets requirement(s): Fine & Applied Arts
Open to Grades: 10, 11 & 12
Course Fee: Yes

Metal Fabrication and Machining provides the knowledge, skills, and certifications required for equal employment opportunities in the metal production industry. This course is designed to teach students industry skills applicable to welding, sheet metal, and machining occupations. Technical Concepts and skills in this course include shielded and gas metal arc welding, hand and power tools common in metal manufacturing, machine tool operation including automated welding machines, lathe and mill machine processes, metallurgy, and sheet metal processes.

2287 Metal and Machining Fabrication II A

Credits: 5
Prerequisites: Metals and Machining Fabrication B
Meets requirement(s): Fine & Applied Arts
Open to Grades: 10, 11 & 12
Course Fee: Yes

Metal Fabrication and Machining II builds on the knowledge, skills, and certifications students acquire in Metal Fabrication and Machining I. Students will develop advanced concepts and skills related to metal fabrication and machining. Topics include blueprint planning and layout, advanced concepts in welding and machine processes and procedures, and advanced construction techniques in sheet metal manufacturing.

2292 Metal and Machining Fabrication II B

Credits: 5
Prerequisites: Metal and Machining Fabrication II A
Meets requirement(s): Fine & Applied Arts
Open to Grades: 10, 11 & 12
Course Fee: Yes

Metal Fabrication and Machining II builds on the knowledge, skills, and certifications students acquire in Metal Fabrication and Machining I. Students will develop advanced concepts and skills related to metal fabrication and machining. Topics include: blueprint planning and layout, advanced concepts in welding and machine processes and procedures, and advanced construction techniques in sheet metal manufacturing.

2209 Principles of Construction

Credits: 5
Prerequisite: None
Meets requirement(s): Elective
Open to Grades: 9, 10, 11 & 12
Course Fee: Yes

Principles of Construction is a foundational course in the Architecture & Construction cluster covering essential knowledge, skills, and concepts required for careers in construction. Upon completion of this course, proficient students will be able to describe various construction fields and outline the steps necessary to advance in specific construction careers. Students will be able to employ tools safely and interpret construction drawings to complete projects demonstrating proper measurement and application of mathematical concepts. Standards in this course also include an overview of the construction industry and an introduction to building systems and materials.

2279 Principles of Engineering & Technology

Credits:	5
Prerequisite:	None
Meets requirement(s):	Fine & Applied Arts
Open to Grades:	9, 10, 11 & 12
Course Fee:	Yes

Principles of Engineering and Technology is designed to introduce students to the STEM cluster for students interested in learning more about careers in engineering and technology. This course covers basic skills required for engineering and technology fields of study. Upon completion of this course, students are able to identify and explain the steps in the engineering design process. They can evaluate an existing engineering design, use fundamental sketching and engineering drawing techniques, complete simple design projects using the engineering design process, and effectively communicate design solutions to others.

At FRHS: Principles of Engineering & Technology is the foundational class for all other coursework in this department. It should be completed before enrolling in any further classes. Can also be taken together with other Level 1 courses such as Principles of Manufacturing or Woodworking Technology A. See pathways graphic above for more information about this.

2293 Principles of Manufacturing

Credits:	5
Prerequisites:	None
Meets requirement(s):	Fine & Applied Arts
Open to Grades:	9, 10, 11 & 12
Course Fee:	Yes

In Principles of Manufacturing, students are introduced to knowledge and skills used in the proper application of principles of manufacturing. The study of manufacturing technology allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities. Students will gain an understanding of what employers require to gain and maintain employment in manufacturing careers.

2205 Robotics and Automated Systems A

Credits:	5
Prerequisites:	Principles of Engineering and Technology OR Teacher Approval
Meets requirement(s):	Fine & Applied Arts
Open to Grades:	9, 10, 11 & 12
Course Fee:	Yes

Robotics & Automated Systems is an applied course for students who wish to explore how robots and automated systems are used in industry. Upon completion of this course, students will have an understanding of the historical and current uses of robots and automated systems; programmable circuits, interfacing both inputs and outputs; ethical standards for engineering and technology professions; and testing and maintenance of robots and automated systems.

2206 Robotics and Automated Systems B

Credits:	5
Prerequisites:	Robotics A
Meets requirement(s):	Fine & Applied Arts
Open to Grades:	10, 11 & 12
Course Fee:	Yes

Robotics & Automated Systems is an applied course for students who wish to explore how robots and automated systems are used in industry. Upon completion of this course, students will have an understanding of the historical and current uses of robots and automated systems; programmable circuits, interfacing both inputs and outputs; ethical standards for engineering and technology professions; and testing and maintenance of robots and automated systems.

At FRHS: This class is a 9th period applied engineering class. Students will work directly with industry mentors to plan, design, program, and build robots to compete in the FRC regional and national competitions.

2282 Woodworking Technology A

Credits: 5
Prerequisites: Principles of Engineering and Technology OR Teacher approval
Meets requirement(s): Fine & Applied Arts
Open to Grades: 9, 10, 11 & 12
Course Fee: ` Yes

This course provides an overview of the planning, design, layout, and technical drawing interpretation for practical use in woodworking, cabinetmaking, and mill working. Different cabinet and furniture styles used, various wood products and materials, and proper tool selection may also be covered. Students will be introduced to the different construction processes in the cabinetmaking, furniture making, and millwork industries. Students will learn about measurement, layout, shop drawings and cutting lists. They will gain a basic understanding of the various kinds of materials used in the industry. Students will learn to use selected woodworking tools and machinery. Correct and safe use of tools and equipment is emphasized. The construction of several projects will develop student's woodworking skills.

2233 Woodworking Technology B

Credits: 5
Prerequisites: Woodworking Technology A
Meets requirement(s): Fine & Applied Arts
Open to Grades: 10, 11 & 12
Course Fee: ` Yes

This course provides an overview of the planning, design, layout, and technical drawing interpretation for practical use in woodworking, cabinetmaking, and mill working. Different cabinet and furniture styles used, various wood products and materials, and proper tool selection may also be covered. Students will be introduced to the different construction processes in the cabinetmaking, furniture making, and millwork industries. Students will learn about measurement, layout, shop drawings and cutting lists. They will gain a basic understanding of the various kinds of materials used in the industry. Students will learn to use selected woodworking tools and machinery. Correct and safe use of tools and equipment is emphasized. The construction of several projects will develop student's woodworking skills.

2237 Woodworking Technology II A

Credits: 5
Prerequisites: Woodworking Technology B
Meets requirement(s): Fine & Applied Arts
Open to Grades: 10, 11 & 12
Course Fee: Yes

Woodworking Technology II A provides continuing instruction in woodworking with a blend of historic and modern technology skills. This course includes in-depth instruction of hand tools, power tools, custom made tools, advanced woodworking techniques, drafting and wood science.

2240 Woodworking Technology II B

Credits: 5
Prerequisites: Woodworking Technology II A
Meets requirement(s): Fine & Applied Arts
Open to Grades: 10, 11 & 12
Course Fee: Yes

Woodworking Technology II B provides continuing instruction in woodworking with a blend of historic and modern technology skills. This course includes in-depth instruction of hand tools, power tools, custom made tools, advanced woodworking techniques, drafting and wood science.

2213 Work Based Learning: Construction

Credits: Variable
Prerequisites: Teacher approval required
Meets requirement(s): Elective
Open to Grades: 9, 10, 11 & 12

Students build on prior knowledge and skills in the program of study to further develop and apply employability and technical skills that prepare them for success in future career and postsecondary education. Students will have the opportunity to develop skills in supervised practical experience on the job or in a classroom based job environment. A personalized learning plan is a requirement of this course.

2214 Work Based Learning: Engineering (STEM)

Credits: Variable
Prerequisites: Teacher approval required
Meets requirement(s): Elective
Open to Grades: 9, 10, 11 & 12

Students build on prior knowledge and skills in the program of study to further develop and apply employability and technical skills that prepare them for success in future career and postsecondary education. Students will have the opportunity to develop skills in supervised practical experience on the job or in a classroom based job environment. A personalized learning plan is a requirement of this course.

2294 Work Based Learning: Manufacturing

Credits: Variable
Prerequisites: Teacher approval required
Meets requirement(s): Elective
Open to Grades: 9, 10, 11 & 12

Students build on prior knowledge and skills in the program of study to further develop and apply employability and technical skills that prepare them for success in future career and postsecondary education.

* See the [Schedule of Fees and Other Select Charges](#) for lab fees associated with these courses

Family & Consumer Science



The Family and Consumer Sciences Department offers a tremendous opportunity for all students to explore career options. The following classes are recommended to help develop a background to pursue careers in the following Family and Consumer Sciences pathways.

These sequences are only recommendations

Visual & Design Arts Pathway

Interior Design
Visual & Design Art
Fashion Design/Industry

Hospitality & Human Services Pathway

Counseling
Social Work
Mental Health Services
Family Services
Culinary Arts

Education Pathway

Teaching/Education
Early Childhood Education

Fossil Ridge Classes

Interior Design -
Residential 1
Interior Design -
Commercial 2
Fashion Design and
Merchandising 1
Fashion Design and
Merchandising 2

Fossil Ridge Classes

Teen Choices
Child/Adolescent Development
Interpersonal Relationships
Life Management
Culinary Nutrition
Catering 1
Catering 2

Fossil Ridge Classes

Teen Choices
Child/Adolescent Development
Interpersonal Relationships
Education Exploration
Teacher Cadet

4210DC Life Management

Credits: 5
Prerequisites: None
Meets requirement(s): Personal Finance
Open to Grades: 10, 11 & 12

Students will develop decision-making skills to become educated consumers with an understanding and academic knowledge of consumer resources and financial organizations. The course focuses on personal and family resources, job and career, personal and family finances, and wellness. (Relevant topics include: independent living, healthy lifestyles, career research and job portfolios, personal financial literacy, investments, credit, insurance, leasing vs. purchasing of autos and homes.)

4041 Teen Choices

Credits: 5
Prerequisites: None
Meets requirement(s): Wellness
Open to Grades: 9, & 10

In this course, you will learn how to make healthy decisions throughout your teen years. You will learn skills and practices required by individuals to develop, manage and strengthen social, psychological, and physical wellness, interpersonal relationships, safe sexual decision making, anti-substance use practices, and understanding teens and the law.

4310 Child and Adolescent Development

Credits: 5
Prerequisites: None
Meets requirement(s): Elective
Open to Grades: 9, 10, 11 & 12

The purpose of this course is to acquire knowledge and understanding of child and adolescent development necessary for strengthening the well-being of children and families. Content focuses on perspectives of human development, research, and theories, understanding and nurturing development, and challenges to development.

4019 Education Exploration

Credits: 5
Prerequisites: None
Meets requirement(s): Elective
Open to Grades: 10, 11 & 12

Education Exploration is a semester course designed to provide students with an overview of professions within education. Students will discover their own learning style and how learning styles impact teaching and the delivery of lessons. Experiences with various education professionals will enhance the understanding of classroom planning, licensure requirements, and career opportunities within school systems. This course includes a minimum of 15 extended learning hours, which may be outside of class time. With exemplary performance and instructor recommendation, students may apply for the Teacher Cadet program without meeting the 3.0 GPA requirement.

4023 Teacher Cadet 1 A / B

Credits: 10
Prerequisites: None
Meets requirement(s): Elective, college credit
Open to Grades: 11 & 12

This full year course is designed for students who have a strong interest in, or who are considering a career related to, the occupation of "teacher" at any age or grade level. Students will complete self-assessments, participate in individual and group projects, complete observations at various ages and stages of learning, and increase their understanding of themselves and others as "learners". The culminating event in this class is 50 hours of field experience during second semester at an area school where students will plan and deliver lessons under the supervision of a cooperating teacher. This academic elective course is fast paced, and students may apply for college credit with a "B" or higher in the class. **At FRHS: This course may be offered alternating years, depending on enrollment.**

7290 Interpersonal Relationships

Credits: 5
Prerequisites: None
Meets requirement(s): Elective
Open to Grades: 10, 11, & 12

The purpose of the course is to acquire academic knowledge and understanding for healthy, respectful, and caring relationships across the life span. Emphasis is placed on family and friend dynamics, effective communication, and healthy interpersonal relationships.

4340 Interior Design 1 - Residential

Credits: 5
Prerequisites: None
Meets requirement(s): Fine & Applied Arts
Open to Grades: 9, 10, 11 & 12

The purpose of this course is to expose students to various aspects of the interior design industry and is based on the industry's professional standards (Council of Interior Design Accreditation-CIDA). The first semester focuses on residential design. Students integrate knowledge, skills and practices to evaluate potential career opportunities. Areas of focus include: Introduction to Residential and Commercial Design; Design Drawings; Professional Practices/Education; Design Elements and Principles; and the Design Process. ***There is a lab fee for this course. ****

4341 Interior Design 2 - Commercial

Credits: 5
Prerequisites: Passing grade in Interior Design I
Meets requirement(s): Fine & Applied Arts
Open to Grades: 10, 11 & 12

The purpose of this course is to expose students to various aspects of the interior design industry and is based on the industry's professional standards (Council of Interior Design Accreditation-CIDA). The first semester focuses on residential design. Students integrate knowledge, skills, and practices to evaluate potential career opportunities. Areas of focus include: Introduction to Residential and Commercial Design; Design Drawings; Professional Practices/Education; Design Elements and Principles; and the Design Process. ***There is a lab fee for this course. ****

4390 Fashion Design and Merchandising 1

Credits: 5
Prerequisites: None
Meets requirement(s): Fine & Applied Arts
Open to Grades: 9, 10, 11 & 12

This course is for students who are interested in learning about the fashion and merchandising industry. Students integrate knowledge, skills, and practices to evaluate potential career opportunities. Emphasis is placed on an introduction to fashion, fashion and textile selection, product construction and fashion merchandising. ***There is a lab fee for this course. ****

4391 Fashion Design and Merchandising 2

Credits: 5
Prerequisites: Passing Grade in Fashion Design I
Meets requirement(s): Fine & Applied Arts
Open to Grades: 10, 11 & 12

This course is for students who wish to increase their knowledge and further their skills in the fashion design and merchandising industry. Topics include fashion designers, careers, clothing selection, fibers and fabrics, and fashion illustration. Projects are planned and completed in relation to the student's individual interest and skill level. ***There is a lab fee for this course. ****

4410 Culinary Nutrition

Credits: 5
Prerequisites: None
Meets requirement(s): Wellness
Open to Grades: 9, 10, 11 & 12

The purpose of this course is to develop lifelong, healthy individuals with an understanding of healthy and nutritious preparation techniques utilizing various resources and skills. Emphasis is placed on implementing healthy nutritional choices, preparing nutrient-dense seasonal foods, sports nutrition, exploring careers related to culinary nutrition, and practicing wise consumer. (**Please Note:** Ingredients and food preparation processes in this course assumes the possibility of cross contamination of common allergens including nuts, eggs, dairy, gluten products, etc.) ***There is a lab fee for this course. ****

4440 Catering 1

Credits: 5
Prerequisites: None
Meets requirement(s): Fine & Applied Arts
Open to Grades: 10, 11 & 12

This program is designed for students with career interests in the food industry as well as owning their own catering business. The purpose of this course is to develop skills in quantity food preparation, safety and sanitation, planning, customer service, business plans and entrepreneurship. FCCLA is also an integral part of this course. (**Please Note:** Ingredients and food preparation processes in this course assumes the possibility of cross contamination of common allergens including nuts, eggs, dairy, gluten products, etc.) ***There is a lab fee for this course. ****

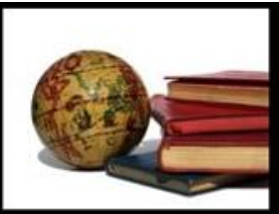
4441 Catering 2

Credits: 5
Prerequisites: Catering 1
Meets requirements: Fine & Applied Arts
Open to Grades: 10, 11 & 12

This program is designed for students with career interests in the food industry as well as owning their own catering business. The purpose of this course is to develop skills in quantity food preparation, safety and sanitation, planning, customer service, business plans and entrepreneurship. (**Please Note:** Ingredients and food preparation processes in this course assumes the possibility of cross contamination of common allergens including nuts, eggs, dairy, gluten products, etc.) ***There is a lab fee for this course. ****

* See the [Schedule of Fees and Other Select Charges](#) for lab fees associated with this course

Humanities



All options for Humanities Credits

1374 Film Studies: Introduction to Film Analysis

Credits: 5
Prerequisites: Successful completion of English 9
Meets requirement(s): Humanities, Language Arts
Open to Grades: 10, 11 & 12

The focus of the course will be the academic study of film. The goal is for students to become active, analytical viewers of film. To this end, students will be exposed to the elements of narrative filmmaking as well as an overview of the history of film with an emphasis on cinematic classics. Students will read extensively on film craft, history and criticism. Students will also read and analyze a novel that has been adapted for the screen with the purpose of comparing and contrasting the narrative techniques of the different mediums. Students will write in a variety of compositional modes including but not limited to: analytical/interpretive, compare/contrast, research/argumentation, critical reviews, etc. Visual media has become pervasive in American society and there is a need to instruct our students to become critical, discerning viewers of the powerful medium. **At FRHS: Students will NOT be reading and analyzing a novel adapted for the screen.**

3770 Classical Humanities HUE

Credits: 5
Prerequisites: None
Meets requirement(s): Humanities
Open to Grades: 10, 11 & 12

Students will study the history of Western Civilization through the literary, philosophical and artistic expressions of major historical periods. The student will examine a variety of responses to the universal questions that humans have explored through the humanities. The course will include Ancient Greece and Rome Hebrew thought, the Christian Middle Ages and European Renaissance and Reformation.

3780 Contemporary Humanities

Credits: 5
Prerequisites: None
Meets requirement(s): Humanities
Open to Grades: 10, 11 & 12

Students will study the history of Western Civilization through the literary, philosophical and artistic expressions of major historical periods. The student will examine a variety of responses to the universal questions that humans have explored through the humanities. This course is a continuation of the first-semester Classical Humanities, studying the development of Western Civilization in the 17th, 18th, 19th and 20th centuries. **At FRHS: This course will focus on European contributions to the Humanities from the Enlightenment to World War Two. It is recommended, but not required, that students first take World History or CP (College Prep) World History.**

3800 World Humanities Asia

Credits: 5
Prerequisites: None
Meets requirement(s): Humanities
Open to Grades: 10, 11 & 12

Students will study the cultures of India, China, Japan and other Asian countries through historical events, art, literature, philosophy, music, and architecture. Study will include relating events and concepts of Asia with those of Western Civilization. **At FRHS: *World religions will also be a focus of study.***

3740 American Humanities

Credits: 5
Prerequisites: None
Meets requirement(s): Humanities
Open to Grades: 10, 11 & 12

This class combines United States history, humanities, and United States literature. Students are encouraged to explore their roles in the community while incorporating art, music, and current events within historical units. **At FRHS: *American Humanities is designed to give students a broader appreciation of and exposure to United States culture from its foundation to the present. By becoming aware of the various movements in literature, events in history, fine arts works, musical movements, and various forms of popular culture, students will determine the “general” character of the United States and its ideals. Studies will include how people within different eras of American history have defined their understanding of what it is to be an American and how that identity has evolved via literature and the arts.***

3742 Native American Humanities

Credits: 5
Prerequisites: None
Meets requirement(s): Humanities
Open to Grades: 10, 11 & 12

Native American History and Humanities studies the history and culture of Native Americans, including North, Central, and South America. Particular emphasis is placed on cultures and societies of North America. Students will explore early Paleo-Indian society, the diversity of Native American cultures, the religious and social worlds of Native Americans, artistic and architectural traditions, and the interactions and transformations that accompanied European and American empire-building. Throughout, students will gain a deeper understanding of Native America, engage with differing interpretations of the past, and analyze historical change over time.

2772 AP Music Theory / Humanities

Credits: 10
Prerequisites: Application/Teacher approval
Meets requirement(s): Humanities / Fine & Applied Arts
Open to Grades: 10, 11 & 12

Music Theory is an advanced placement course. Course content offers the basic fundamentals of music structure, music history, and composition. Students have the opportunity to compose music using different styles. Opportunity also exists for performance of original compositions. This course should be seriously considered by students who anticipate the study of music on the college level. Students completing this course may elect to take the advanced placement test in music. Prerequisites: Select Choir, select ensembles, Band, Orchestra, Jazz Choir or possession of high-level musical skills

2985 Music Theory and Composition

Credits: 5 (semester course)
Prerequisites: None
Meets requirement(s): Humanities
Open to Grades: 10, 11 & 12

A semester-long introductory course of traditional western music theory, this course encompasses harmony, melody, form, and composition.

1340 Studio Art History

Credits: 5 (semester course)
Prerequisites: None
Meets requirement(s): Humanities / Fine & Applied Arts
Open to Grades: 10, 11 & 12

Studio Art History is designed for the hands-on student who would like to explore history and culture through an arts-based lens. It allows students to earn either Humanities credit or Fine & Applied Arts credit toward graduation requirements. While the main focus will be on the contributions and the evolution of art throughout history, students will also dig into the cultures as a whole. We will analyze how geography, literature and human advancement have reflected and influenced society across time. Studio projects will relate directly to the art forms being studied from the time period explored. General Studio work will include drawing, painting and sculpture. **At FRHS: *There is a student fee for this course.* ***

* See the [Schedule of Fees and Other Select Charges](#) for lab fees associated with this course



Our vision is to ensure that all of our students develop and strengthen skills in reading, writing, oral literacy and collaboration so that they will be able to perform as successful, articulate adults.

Electives

9th Grade Options

10th Grade Options

11th Grade Options

12th Grade Options

Foundations of Production Design & Performance
 Performance & Communications
 Technical Theatre A/B
 Set Design A/B
 Sound Engineering & Design A/B
 Stage Production Management A/B
 WBL:Design and Multimedia Arts
 Capstone: Production & Managerial Arts A/B
 WBL:Production and Managerial Art
 Integrated Drama
 Basic Speech
 Argumentation & Debate
 Forensics
 Creative Writing HS English
 Film Studies
 Journalism 1
 Journalism 2
 Yearbook Production
 Sports Broadcasting
 Television Production A
 Television Production B
 Filmmaking A
 Filmmaking B

English 9
CP English 9

World Literature & Comp
CP World Literature

US Literature & Comp
AP Language & Comp

Modern Literary Perspectives
British Literature & Comp
AP Literature & Comp



FRCC English Composition 1
 FRCC English Composition 2
 FRCC Intro to Literature 1
 FRCC Literature and Film

Juniors registering for senior year:

Student Scenario	Course Recommendation
Not interested in earning college credit during high school	Modern Literary Perspectives OR British Literature
Planning to attend an in-state college and want guaranteed transfer credits	English Composition I in the fall and English Composition II in the spring (6-credits); Intro to Lit. in the fall (3-credits). These are separate courses. You will have a semester where you take two English courses.
Planning to attend an out-of-state college	Check with your planned institution about transfer credit and if they accept the AP exam credit
Not sure if you will go in-state or out-of-state for college	Read the course descriptions and decide what your goals are for your senior year
You took AP Language in 11 th grade	AP Literature OR Intro to Lit. in the fall and English Composition II in the spring OR British Literature OR Modern Literary Perspectives
NO student who took AP Language and Composition during their Junior year may take English Composition I in the fall. This is a repeat of courses and is not an option. If you did not earn AP Language credit but still want to earn some college credit, you may do so through the AP Literature and Composition course and exam OR the Intro to Lit./Composition II course option.	

9TH Grade Options

5030 English 9

Credits: 10
Prerequisites: None
Meets requirement(s): Language Arts
Open to Grades: 9

English 9 standards call for the student to communicate effectively in writing and speaking; to read, analyze and interpret literature; and to use appropriate resources and skills to conduct research. Students build writing skills in many forms and are expected to meet the district writing standard in three specific areas: an expository essay, a formal letter, and a creative work. Criteria for evaluation includes: focus development, organization, mechanics (spelling, punctuation, capitalization) and style (sentence structure and vocabulary). Literature study, which focuses on the concept of theme within various literary genres, includes short stories, novels, and plays. Most students will read Romeo and Juliet and To Kill a Mockingbird.

5034 CP English 9

Students should be prepared for a rigorous reading, writing and workload expectation

Credits: 10
Prerequisites: None
Meets requirement(s): Language Arts
Open to Grades: 9

CP English 9 is based upon the same curriculum and standards as English 9, but is designed to emphasize the skills and habits of mind that will be needed to take Advanced Placement English courses and the Advanced Placement exam. Students will be challenged to do more with literary comparison, composition and the higher order thinking skills of analysis, synthesis and evaluation. Ninth grade English course content is covered in greater depth and with more insight.

10th Grade Options

5412 World Literature and Composition

Credits: 10
Prerequisites: 9th grade English
Meets requirement(s): Language Arts
Open to Grades: 10

This course provides students with a foundation in reading and writing skills necessary for completion of a comprehensive standards-based high school curriculum. The course integrates the teaching of writing with the study of literature. Students read a substantial selection of world literature including short stories, novels, drama (including Shakespeare), non-fiction, and poetry. Writing is based on the Six-Trait model. Students produce expository, narrative, descriptive, persuasive, technical, and creative writings.

5413 CP World Literature

Students should be prepared for a rigorous experience

Credits: 10
Prerequisites: 9th grade English
Meets requirement(s): Language Arts
Open to Grades: 10

This honors course is designed for college bound students, particularly those planning on taking the AP exam in composition and literature. Instruction in this course provides students with a foundation in reading and writing skills necessary for completion of a comprehensive standards-based high school curriculum. The course integrates the teaching of writing with the study of literature. Students read a substantial selection of world literature including short stories, novels, drama (including Shakespeare) non-fiction and poetry. Writing instruction is based on the Six-Trait Model. Students produce expository, narrative, descriptive persuasive, technical and creative writing.

11th Grade Options

5861 AP Language and Composition

Credits: 10
Prerequisites: World Literature or CP World Literature
Meets requirement(s): Language Arts
Open to Grades: 11

This junior level class will provide both a scope and sequence survey of U.S. literature AND preparation for the AP English Language Exam. It is a year-long course focusing on the development of sophisticated skills in English as they pertain to literature and to language. Along with their readings in U.S. literature, students will study writing style, usage, and practice rhetorical analysis of fiction and non-fiction. The study of language itself; differences between oral and written discourse, formal and informal languages, historical changes in speech and writing, will often be used as an organizing strategy.

5863 US Literature & Composition

Credits: 10
Prerequisites: World Literature & Composition
Meets requirement(s): Language Arts
Open to Grades: 11

American Literature courses focus upon commonly known American authors and their work. Students improve their critical-thinking skills as they determine the underlying assumptions and values within the selected works and as they understand how the literature reflects the society of the time. Oral discussion is an integral part of this course as is the emphasis on narrative, informational/explanatory, and argumentative writing. **At FRHS: *This course is taught thematically rather than chronologically.***

12th Grade Options

5430 Modern Literary Perspectives

Credits: 10
Prerequisites: US Literature and Humanities
Meets requirement(s): Language Arts
Open to Grades: 10, 11 & 12

This course is designed to teach national standards in language arts with curriculum developed by the CollegeBoard. It is a rigorous class designed for students in the middle to upper range of skills. Students will examine literature through a variety of critical lenses, become better readers and writers and actively engage in conversations about their reading and writing. Students will work in large and small groups and individually. Evaluation will be ongoing and will include maintaining a portfolio. **At FRHS: *This course also includes a full length documented research paper on a topic of the student's choosing.***

5860 AP Composition and Literature

Credits: 10
Prerequisites: World Literature & Composition AND
US Literature and Composition OR AP Language & Composition
Meets requirement(s): Language Arts
Open to Grades: 12

This course includes the study of short stories, drama, novels, and poetry, with emphasis on discussion, thorough understanding, and analysis of works of literature. Students read and study famous authors from ancient to contemporary times. This course is designed to complete an accelerated sequence of reading and writing classes in high school. Students may subsequently sign up to take the Advanced Placement examination for college credit in English.

5440 British Literature and Composition

Credits:	10
Prerequisites:	World Literature & Composition OR CP World Literature & Composition AND US Literature and Composition OR AP Language & Composition
Meets requirement(s):	Language Arts
Open to Grades:	12

Recommended for college-bound seniors, this course is designed as a study of representative works of British literature. In addition to the literature, the history and culture of each period are studied. Terms of literary analysis are studied and applied. The course also includes vocabulary study, history of the English language, preparation for college tests, and composition.

Electives Options – All Grades

1374 Film Studies: Introduction to Film Analysis

Credits:	5
Prerequisites:	Successful completion of English 9
Meets requirement(s):	Humanities / Language Arts
Open to Grades:	10, 11 & 12

The focus of the course will be the academic study of film. The goal is for students to become active, analytical viewers of film. To this end, students will be exposed to the elements of narrative filmmaking as well as an overview of the history of film with an emphasis on cinematic classics. Students will read extensively on film craft, history, and criticism. They will also read and analyze a novel that has been adapted for the screen with the purpose of comparing and contrasting the narrative techniques of the different mediums. Students will write in a variety of compositional modes including but not limited to analytical/interpretive, compare/contrast, research/argumentation, critical reviews, etc. Visual media has become pervasive in American society and there is a need to instruct our students to become critical, discerning viewers of this powerful medium. **At FRHS: *Students will NOT be reading and analyzing a novel adapted for the screen.***

5220 Creative Writing HS English

Credits:	5
Prerequisites:	None
Meets requirement(s):	Language Arts
Open to Grades:	9, 10, 11 & 12

This class enables students to explore and develop their special talents and interests in writing short stories, poems, plays, and other creative works. **At FRHS: *Students in this class will focus in-depth on particular creative writing genres including, but not limited to, poetry, fiction, personal memoir, and creative non-fiction. Working in small writing groups will encourage communication skills as well as skills in giving and receiving constructive criticism.***

5250 Basic Speech

Credits:	5
Prerequisites:	None
Meets requirement(s):	Language Arts
Open to Grades:	9, 10, 11 & 12

Basic Speech is designed as a fundamental course to improve public speaking in formal and informal settings. Focus is on activities which address the organization, preparation, and delivery of solo speaking opportunities including informative, visual aid, demonstration, and persuasive speeches. Work also includes effective listening, oral interpretation and group discussion.

5900 Argumentation and Debate

Credits: 5
Prerequisites: None
Meets requirement(s): Language Arts
Open to Grades: 9, 10, 11 & 12

The theory and practice of argument will be discovered and applied in various persuasive situations. Public Forum, Lincoln-Douglas and legislative debate techniques will be introduced. Students will research and write debate cases and participate in debates in class. Skills in organizing and writing debate cases and conducting critical analysis of research literature will be emphasized in addition to oral analysis and refutation. **At FRHS: *This course requires attendance in Forensics competitions as a component of this class.***

5910 Forensics

Credits: 5
Prerequisites: None
Meets requirement(s): Language Arts
Open to Grades: 9, 10, 11 & 12

Students will study all areas of forensic competition, exclusive of debate, and will be expected to specialize in duet acting, extemporaneous speaking, and original oratory, interpretation of dramatic literature, interpretation of humorous literature, or interpretation of poetry. **At FRHS: *This course requires attendance in Forensics competitions as a component of this class.***

5270 Journalism 1

Credits: 10
Prerequisites: None
Meets requirement(s): Language Arts
Open to Grades: 9, 10, 11 & 12

Students learn to examine professional news reporting and writing, journalistically. The fundamentals of news gathering, interviewing, reporting, news writing, advertising strategies and selling, and the newspaper design and layout are all learned as a basis for newspaper production. **At FRHS: *Basic yearbook skills will also be taught. Some basics of TV news reporting will be covered. This class is designed as a prerequisite for Journalism 2 (5280) (newspaper production) and/or Yearbook Production (5130).***

5280 Journalism 2

Credits: 10
Prerequisites: Journalism 1 and Teacher approval
Meets requirement(s): Language Arts
Open to Grades: 10, 11 & 12

Production of the school newspaper is the responsibility of students in this course. They perform in various capacities as editor, reporter, business manager, photographer, artist, cartoonist, or word processor. The school newspaper provides a forum for student expression. **At FRHS: *Journalism 2 also offers opportunities for young journalists to employ social media and video production techniques to create multimedia coverage of the stories relevant to the student population and to increase awareness of developing industry trends.***

5130 Yearbook Production

Credits: 10
Prerequisites: Journalism 1 or Teacher approval
Meets requirement(s): Elective
Open to Grades: 9, 10, 11 & 12

Yearbook covers all phases of yearbook production. Students learn to design layouts, write copy, organize materials, select photographs, and function as a cooperative member of a publications staff.

1769 Business Communications

Credits: 5
Prerequisites: None
Meets requirement(s): Language Arts
Open to Grades: 9, 10, 11 & 12

Emphasizes effective business writing and cover letters, memoranda, reports, application letters, and resumes. This course includes the fundamentals of business communication and an introduction to international communication

5293 Sports Broadcasting

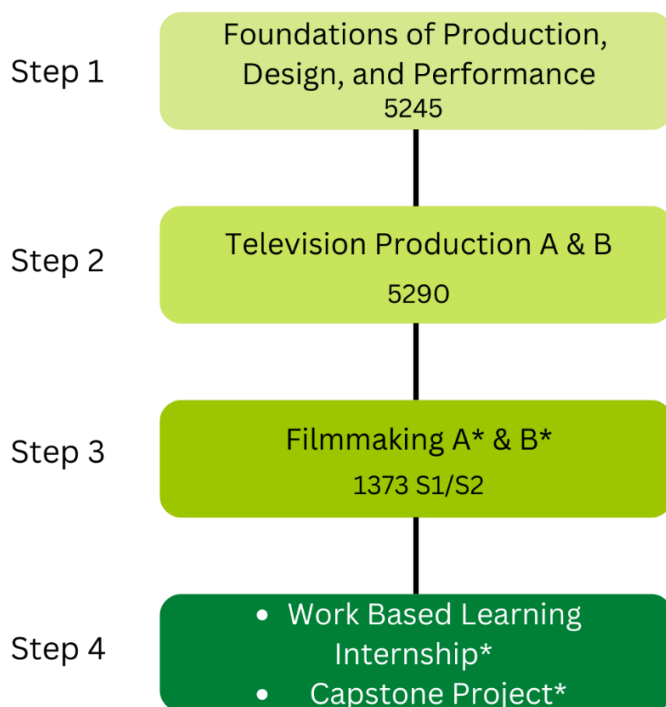
Credits: 10
Prerequisites: None
Meets Requirement(s): Language Arts
Open to Grades: 10, 11 & 12

Sports Broadcasting will teach students the essentials of sports journalism, with a focus on live publication to an audience. The three main modes of reporting addressed will feature the on-location interview, play-by-play event coverage, and anchoring at the sports desk. Students will learn the technical skills for live audio support and podcasting, shooting and editing video packages, and industry applications of social media.

FRHS TV & Film Productions Pathway Courses:

TV & Film Production

*can be repeated



5245 Foundations of Production Design & Performance

Credits: 5
Prerequisites: None
Meets requirement(s): Fine & Applied Arts
Open to Grades: 9, 10, 11 & 12

Students are introduced to a variety of programs and occupations in the arts, audio/video technology, and production. Within this context, students will be expected to develop an understanding of the various and multifaceted career opportunities in this cluster and the knowledge, skills, and educational requirements for those opportunities. ***At FRHS: This class introduces students to video/filmmaking, acting, technical theater, and principles of storytelling. This class is the first step in all theater and video/film pathways.***

5290S1 Television Production A

Credits: 5
Prerequisites: Foundations of Production Design & Performance
Meets requirement(s): Fine & Applied Arts
Open to Grades: 9, 10, 11 & 12

TV producers work behind the camera, putting together the different elements of the broadcast and making sure that everything works together smoothly. This course covers the essential components of TV broadcast production, including the use of microphones, cameras, videotape recorder-editors, switchers, and lighting equipment. The basics of editing and chroma key (blue screen) techniques are also introduced. Students gain practical experience producing their own video projects in the studio.

5290S2 Television Production B

Credits: 5
Prerequisites: Television Production A
Meets requirement(s): Fine & Applied Arts
Open to Grades: 9, 10, 11 & 12

TV producers work behind the camera, putting together the different elements of the broadcast and making sure that everything works together smoothly. This course covers the essential components of TV broadcast production, including the use of microphones, cameras, videotape recorder-editors, switchers, and lighting equipment. The basics of editing and chroma key (blue screen) techniques are also introduced. Students gain practical experience producing their own video projects in the studio.

1373S1 Filmmaking A

Credits: 5
Prerequisites: Television Production B
Meets requirement(s): Fine & Applied Arts
Open to Grades: 10, 11 & 12

Students learn how to use digital video editing software to create, edit, and save movies. Students create movies using digital video clips, digital photos, and music. The basics of shooting good video, capturing video from a camera to a computer, creating movies for the web, and creating a finished product will be covered.

1373S2 Filmmaking B

Credits: 5
Prerequisites: Filmmaking A
Meets requirement(s): Fine & Applied Arts
Open to Grades: 10, 11 & 12

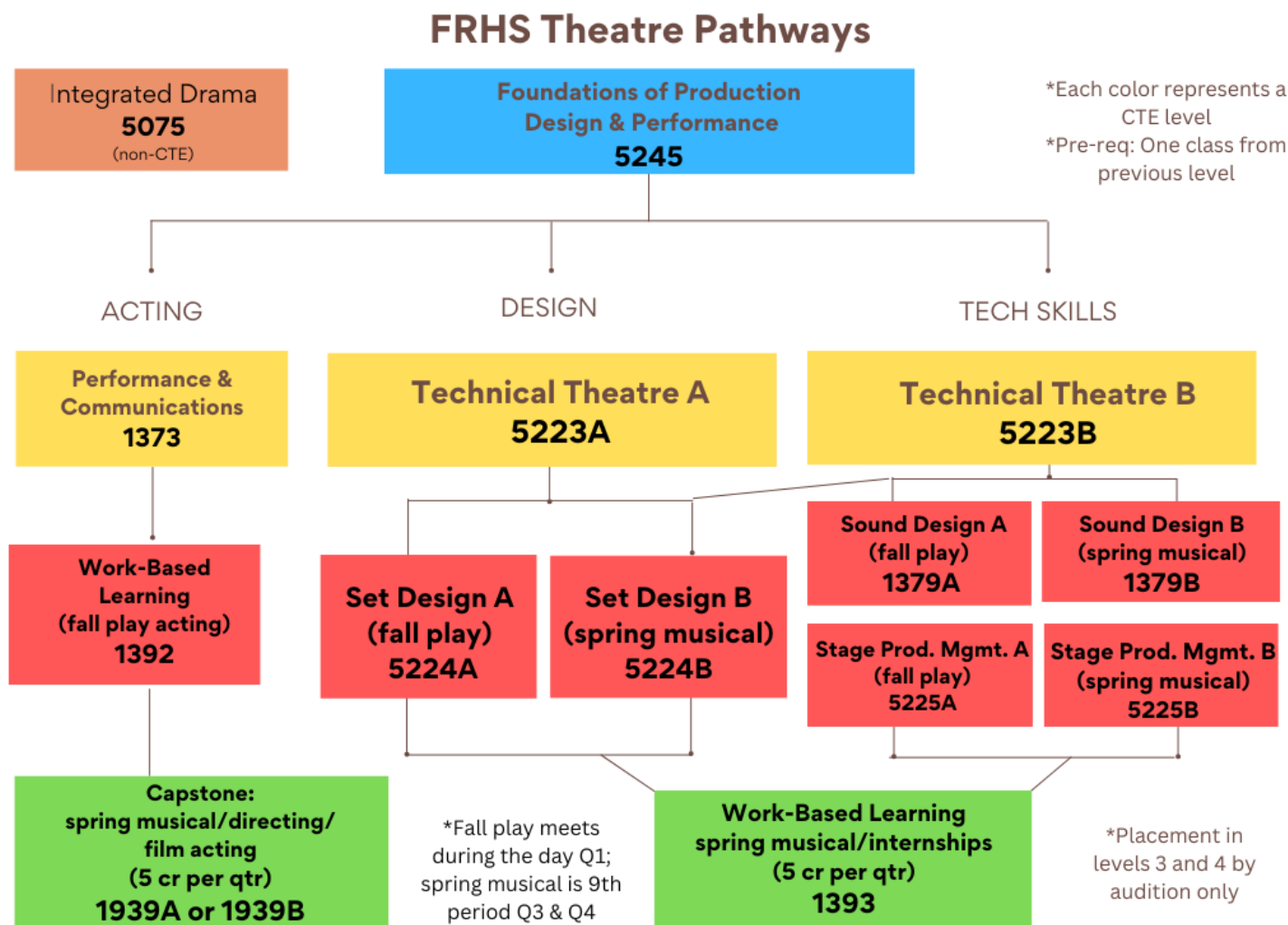
Students learn how to use digital video editing software to create, edit, and save movies. Students create movies using digital video clips, digital photos, and music. The basics of shooting good video, capturing video from a camera to a computer, creating movies for the web, and creating a finished product will be covered.

1373S Acting in Film

Credits: 5
Prerequisites: Performance & Communications
Meets requirement(s): Fine & Applied Arts
Open to Grades: 10, 11 & 12

This semester course emphasizes acting skills for film. Students learn techniques including character and script analysis, rehearsal and production processes, and effective collaboration with a creative production team. **At FRHS: This course will include the completion of a CTE Capstone project.**

FRHS Theater Pathway Courses:



5245 Foundations of Production Design & Performance

Credits: 5
Prerequisites: None
Meets requirement(s): Fine & Applied Arts
Open to Grades: 9, 10, 11 & 12
CTE Theater Pathway: Level 1

Students are introduced to a variety of programs and occupations in the arts, audio/video technology, and production. Within this context, students will be expected to develop an understanding of the various and multifaceted career opportunities in this cluster and the knowledge, skills, and educational requirements for those opportunities. **At FRHS: *This class introduces students to video/filmmaking, acting, technical theater, and principles of storytelling. This class is the first step in all theater and video/film pathways.***

1373 Performance & Communications

Credits: 5
Prerequisites: Level 1 course: Foundations of Production Design & Performance
Meets requirement(s): Fine & Applied Arts
Open to Grades: 9, 10, 11 & 12
CTE Theater Pathway: Level 2

This course introduces students to methods of performance and performance-dependent careers. Though performance is a significant part of this course, further topics include financial awareness, promotion and marketing, and management and leadership. **At FRHS: Students will perform a One Act. This course replaces the Intro to Acting course that was previously offered.**

5223A Technical Theatre A

Credits: 5
Prerequisites: Level 1 course: Foundations of Production Design & Performance
Meets requirement(s): Fine & Applied Arts
Open to Grades: 9, 10, 11 & 12
CTE Theater Pathway: Level 2

Introduces methods of constructing and painting scenery and properties, operating stage lighting and sound equipment, and implementing costumes and multimedia. This course explores the proper procedures of serving on stage crews. **At FRHS: Students will learn the principles of design for sets, costumes, lighting, and sound. This course replaces the Theatre Foundations course that was previously offered.**

5223B Technical Theatre B

Credits: 5
Prerequisites: Level 1 course: Foundations of Production Design & Performance
Meets requirement(s): Fine & Applied Arts
Open to Grades: 9, 10, 11 & 12
CTE Theater Pathway: Level 2

Introduces methods of constructing and painting scenery and properties, operating stage lighting and sound equipment, and implementing costumes and multimedia. This course explores the proper procedures of serving on stage crews. **At FRHS: Students will learn how to safely and effectively operate shop tools to build set pieces, operate theatre lighting and sound systems, and create projections for production. This class will design and run tech for a Performance & Communication class.**

5224A Set Design A

Credits: 5
Prerequisites: Any Level 2 course & audition only
Meets requirement(s): Fine & Applied Arts
Open to Grades: 9, 10, 11 & 12
CTE Theater Pathway: Level 3

Emphasizes two- and three-dimensional drawing and designs and color theory. Students construct 3-D models and a theatrical stage set. **At FRHS: Students will design, build, and paint the set for the Fall Play. Students may ONLY be enrolled in the class through an interview/selection process with the director.**

5224B Set Design B

Credits: 5
Prerequisites: Any Level 2 course & audition only
Meets requirement(s): Fine & Applied Arts
Open to Grades: 9, 10, 11 & 12
CTE Theater Pathway: Level 3

Emphasizes two- and three-dimensional drawing and designs and color theory. Students construct 3-D models and a theatrical stage set. **At FRHS: Students will design, build, and paint the set for the Spring Musical. This class meets during 9th period. Students may ONLY be enrolled in the class through an interview/selection process with the director.**

1379A Sound Engineering & Design A

Credits: 5
Prerequisites: Any Level 2 course & audition only
Meets requirement(s): Fine & Applied Arts
Open to Grades: 9, 10, 11 & 12
CTE Theater Pathway: Level 3

Explores the steps in audio production following the initial sound capture and overdubbing of sound. Key concepts include sound design, mixing, and addition of effects. Integration of music with pictures is also discussed, and key concepts such as automatic dialogue replacement, foley, score, and voiceover recording are covered. **At FRHS: Students will design and operate the sound systems for the Fall Play. Students may ONLY be enrolled in the class through an interview/selection process with the director.**

1379B Sound Engineering & Design B

Credits: 5
Prerequisites: Any Level 2 course & audition only
Meets requirement(s): Fine & Applied Arts
Open to Grades: 9, 10, 11 & 12
CTE Theater Pathway: Level 3

Explores the steps in audio production following the initial sound capture and overdubbing of sound. Key concepts include sound design, mixing, and addition of effects. Integration of music with pictures is also discussed, and key concepts such as automatic dialogue replacement, foley, score, and voiceover recording are covered. **At FRHS: Students will design and operate the sound systems for the Spring Musical. Students may ONLY be enrolled in the class through an interview/selection process with the director.**

5225A Stage Production Management A

Credits: 5
Prerequisites: Any Level 2 course & interview with director
Meets requirement(s): Elective
Open to Grades: 9, 10, 11 & 12
CTE Theater Pathway: Level 3

This course introduces students to various areas of management within the stage production industry which include stage manager (working with assistants, actors, and directors), theater manager (advertising, box office sales, public relations), human resources (training, hiring, safety, compensation, law), and financial manager (payroll and budget). **At FRHS: *Students will stage manage, house manage, and produce marketing for the Fall Play. Students may ONLY be enrolled in class through an interview/selection process with the director.***

5225B Stage Production Management B

Credits: 5
Prerequisites: Any Level 2 course & interview with director
Meets requirement(s): Elective
Open to Grades: 9, 10, 11 & 12
CTE Theater Pathway: Level 3

This course introduces students to various areas of management within the stage production industry which include stage manager (working with assistants, actors, and directors), theater manager (advertising, box office sales, public relations), human resources (training, hiring, safety, compensation, law), and financial manager (payroll and budget). **At FRHS: *Students will stage manage, house manage, and produce marketing for the Spring Musical. This class meets during 9th period. Students may ONLY be enrolled in class through an interview/selection process with the director.***

1392 Work-Based Learning: Design and Multimedia Arts

Credits: 5
Prerequisites: Any Level 2 course: Performance & Communications is recommended
Meets requirement(s): Elective
Open to Grades: 9, 10, 11 & 12
CTE Theater Pathway: Level 3

Students build on prior knowledge and skills in the program of study to further develop and apply employability and technical skills that prepare them for success in future career and postsecondary education. **At FRHS: *Students will rehearse and perform for the Fall Play. Students may ONLY be enrolled in the class through an audition process with the director.***

1939A Capstone: Production & Managerial Arts A

Credits: 5
Prerequisites: Any Level 3 course
Meets requirement(s): Fine & Applied Arts
Open to Grades: 9, 10, 11 & 12
CTE Theater Pathway: Level 4

This course allows for individualized, advanced, and/or cumulative work in a program of study. This work is individualized to the student within a specific program of study to allow for specialized study. It may include problem-/project-based learning or preparation for industry certification. The specific content and course design is determined by the instructor, in collaboration with the individual student. **At FRHS: *Students may ONLY be enrolled in this class through an interview/selection process with the director OR with instructor approval. Opportunities include directing for Performance & Communications class, or performing in a short film class, or performing in the 9th period Spring Musical.***

1939B Capstone: Production & Managerial Arts B

Credits: 5
Prerequisites: Any Level 3 course
Meets requirement(s): Fine & Applied Arts
Open to Grades: 9, 10, 11 & 12
CTE Theater Pathway: Level 4

This course allows for individualized, advanced, and/or cumulative work in a program of study. This work is individualized to the student within a specific program of study to allow for specialized study. It may include problem-/project-based learning or preparation for industry certification. The specific content and course design is determined by the instructor, in collaboration with the individual student. **At FRHS: *Students may ONLY be enrolled in this class through an interview/selection process with the director OR with instructor approval. Opportunities include directing for Performance & Communications class, or performing in a short film class, or performing in the 9th period Spring Musical.***

1393 Work-Based Learning: Production and Managerial Art

Credits: Variable credit based upon hours worked
Prerequisites: Any Level 3 course
Meets requirement(s): Elective
Open to Grades: 9, 10, 11 & 12
CTE Theater Pathway: Level 4

Students build on prior knowledge and skills in the program of study to further develop and apply employability and technical skills that prepare them for success in future career and postsecondary education, as deemed developmentally appropriate. **At FRHS: Students will earn Work-Based Learning credit for all hours spent working on performance, technical theatre, or design on the Spring Musical outside regular class time. Credit may also be earned through internships or employment.**

5075 Integrated Drama

Credits: 5
Prerequisites: None
Meets requirement(s): Elective
Open to Grades: 9, 10, 11 & 12

This is a one-semester course that integrates students with special needs with general education students. Students will work in diverse peer groups to teach social skills and friendship skills in role play and a variety of other creative dramatic formats. Performance projects will include improvisation, pantomime, puppet and musical performances, and composition of original pieces. Class activities will encourage peer collaboration, education about disabilities, student inclusion, and personal empowerment.



The following classes are offered for concurrent enrollment:

For details regarding the application and testing process, and grade level options, see FRCC College Now page at the front of the guide.

9325CEFRHS FRCC English Composition I

Credits: 5
Prerequisites: None
Meets requirements: Language Arts

ENG 121 English Composition I: Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a minimum of five compositions that stress analytical, evaluative, and persuasive/ argumentative writing. This course is guaranteed to transfer to all public colleges and universities in Colorado.

9334CEFRHS FRCC English Composition II

Credits: 5
Prerequisite: AP Language Exam score of 3 or higher; English Composition I.
Meets requirements: Language Arts

ENG 122 ENGLISH COMPOSITION II: Expands and refines the objectives of English Composition I. Emphasizes critical/logical thinking and reading, problem definition, research strategies, and writing analytical, evaluative, and/or persuasive papers that incorporate research. This course is guaranteed to transfer to all public colleges and universities in Colorado.

9330CEFRHS FRCC Intro to Literature I

Credits: 5
Prerequisites: None
Meets requirements: Language Arts

LIT 115 Introduction to Literature I: Introduces students to fiction, poetry, and drama. Course emphasizes active and responsive reading. This course is guaranteed to transfer to all public colleges and universities in Colorado.

1378CEFRHS FRCC Literature and Film

Credits: 5
Prerequisites: Recommended Intro to Literature 1
Meets requirements: Language Arts

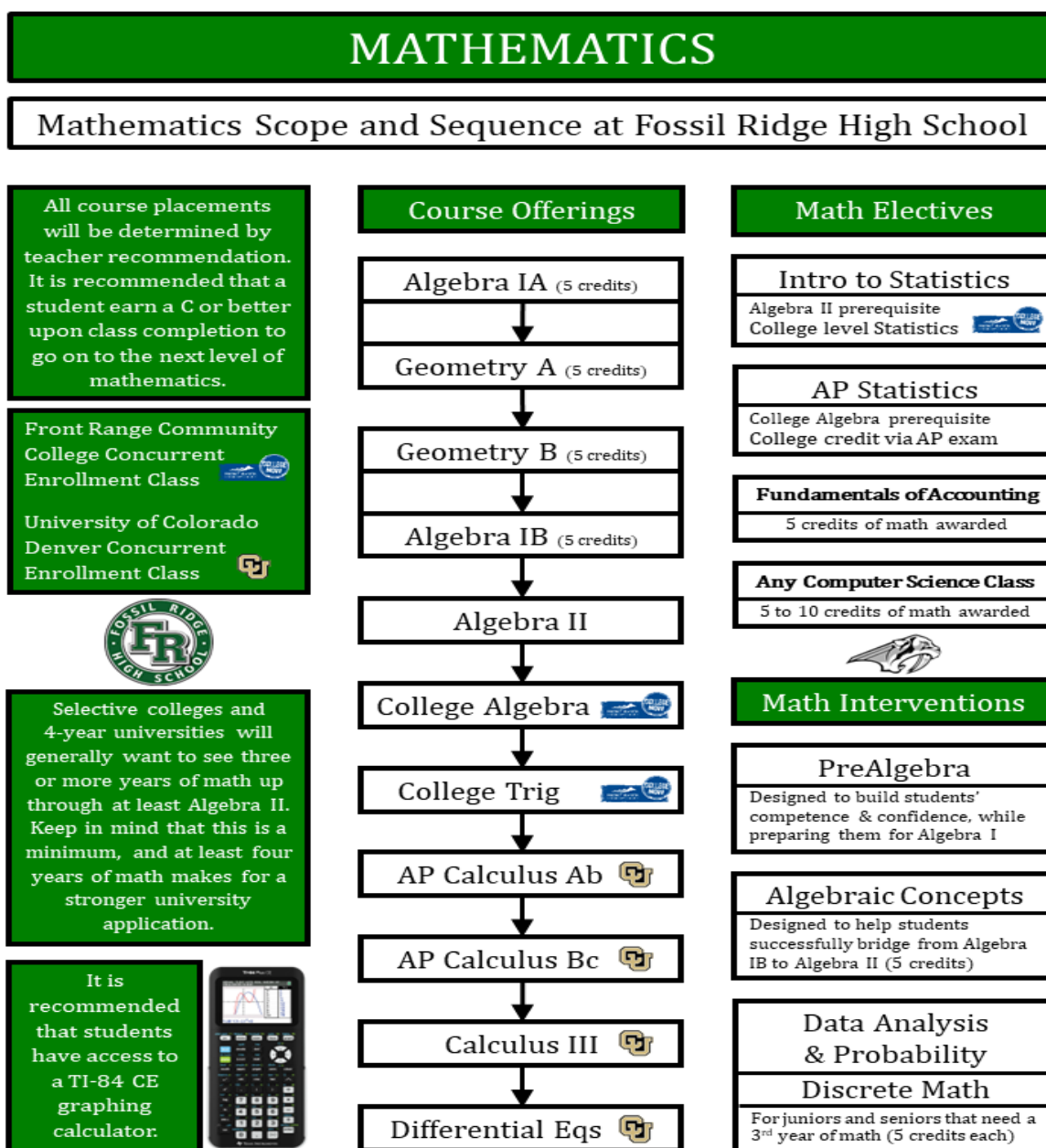
LIT 257 Literature in Film: Examines the relationship between literature and motion pictures, emphasizing the technique and interpretive function of filmmakers.

Mathematics

MATH PLACEMENT GUIDELINES


Student placement in math courses will be based on teacher recommendations for individual students by way of the FRHS Registration Card. Parents/students that disagree with course placement recommendation(s) must follow the steps listed below:

- 1) Parent/Student MUST contact the recommending Teacher FIRST regarding concerns.
- 2) Teacher will help parent/student understand criteria for recommendations.
- 3) If an alternative placement selection is made, a waiver will be signed by parent and student to confirm the course decision was made outside of teacher recommendations.



MATHEMATICS

Grade Level Pathway

9 th	Algebra IA (5 credits)
	Geometry A (5 credits)
↓	
10 th	Geometry B (5 credits)
	Algebra IB (5 credits)
↓	
11 th	Algebra II
↓	
12 th	College Algebra 

Accelerated Pathway

Students wishing to accelerate in mathematics, should consider the following class pairings to be taken during any calendar school year.

Semester 1


Semester 2

Geometry


Algebra II

College Algebra 


College Trig 

AP Calculus Ab 


primarily semester 1

AP Calculus Bc 

semester 2 only

Calculus III 

semester 1 only

Differential Eqs 

semester 2 only

Standards for Mathematical Practice at FRHS

- 1) Make sense of problems and persevere in solving them.
- 2) Reason abstractly and quantitatively.
- 3) Construct viable arguments and critique the reasoning of others.
- 4) Model with mathematics.
- 5) Use appropriate tools strategically.
- 6) Attend to precision.
- 7) Look for and make use of structure.
- 8) Look for and express regularity in repeated reasoning.

6125 Pre-Algebra (Ramp-up to Algebra)

Credits: 10
Prerequisites: None
Meets requirement(s): Mathematics
Open to Grades: 9 (teacher recommendation only)

Pre -Algebra is a course designed to offer students the ability to be Algebra 1 ready by mastering middle school standards that are necessary to understand the Algebra 1 material. **At FRHS: *Pre-Algebra is a year-long mathematics course, designed to solidify a student's understanding of arithmetic and to provide a foundation for the key concepts taught in Algebra I. Ramp-up to Algebra takes place daily according to a double-block period and uses a flexible Extended Workshop format to provide students with a higher level of concentration on the mathematics. The double-block format allows students to examine the concepts in greater depth, and have time to share, discuss, and explore strategies and solutions. Upon successful completion, students will progress to Algebra 1 through teacher recommendation.***

6230 Algebra I A / B

Credits: 5 credits each
Prerequisites: None
Meets requirement(s): Mathematics
Open to Grades: 9, 10, 11 & 12

The fundamental purpose of this course is to formalize and extend the mathematics that students learned in the middle grade. Because it is building on the middle grades standards, this is a more ambitious version of Algebra I than has generally been offered. The critical areas, called units, deepen and extend understanding of linear and exponential relationships by contrasting them with each other and by applying linear models to data that exhibit a linear trend, and students engage in methods for analyzing, solving, and using quadratic functions. The Mathematical Practice Standards apply throughout each course and, together with the content standards. **Upon successful completion, students will progress to Geometry through teacher recommendation.**

6240 Geometry A / B

Credits: 5 credits each
Prerequisites: Successful completion of Algebra I
Meets requirement(s): Mathematics
Open to Grades: 9, 10, 11 & 12

The fundamental purpose of the course in Geometry is to formalize and extend students' geometric experiences from the middle grades. Students explore more complex geometric situations and deepen their explanations of geometric relationships, moving towards formal mathematical arguments. Important differences exist between this Geometry course and the historical approach taken in Geometry classes. For example, transformations are emphasized early in this course. Close attention should be paid to the introductory content for the Geometry conceptual category found in the high school CCSS. The Mathematical Practice Standards apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. The critical areas organized into six units are as follows: Congruence, Proof, and Constructions; Similarity, Proof and Trigonometry; Connecting Algebra and Geometry through Coordinates; Circles With and Without Coordinates; Extending to Three Dimensions; Applications or Probability. **Upon successful completion, students will progress to Algebra 2 through teacher recommendation.**

6226 Algebraic Concepts

Credits: 5
Prerequisites: Successful completion of Geometry and Algebra 1
Meets requirement(s): Mathematics
Open to Grades: 9, 10, 11 & 12

This course is designed as an introductory algebra course. Topics taught might include, but not be limited to signed numbers, writing and solving simple algebraic equations, learning algebraic terminology and application of algebraic concepts. **At FRHS: *This course will help students needing extra support between Algebra 1 and Algebra 2.***

6250 Algebra 2

Credits: 10
Prerequisites: Successful completion of Geometry
Meets requirement(s): Mathematics
Open to Grades: 9, 10, 11 & 12

Building on their work with linear, quadratic, and exponential functions, students extend their repertoire of functions to include polynomial, rational, and radical functions. Students work closely with the expressions that define the functions, and continue to expand and hone their abilities to model situations and to solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms. The Mathematical Practice Standards apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. The critical areas for this course, organized into four units are as follows: Inferences and Conclusions from Data; Polynomial, Rational, and Radical Relationships; Trigonometric Functions; Modeling with Functions. **Upon successful completion, students can progress to either College Algebra, Pre-Calculus, or AP Statistics through teacher recommendation.**

6275 College Algebra

6275CEFR College Algebra (may be taken for concurrent enrollment credit through FRCC)



Credits: 10
Prerequisite: Successful completion of Algebra II
Meets requirement(s): Mathematics
Open to Grades: 9, 10, 11 & 12

College Algebra is designed to allow deeper analysis and extension of advanced algebra topics. College Algebra is the first half of a post-Algebra II class that begins to bridge students to Calculus topics. Students are encouraged to represent problems algebraically, pictorially, verbally, and graphically. Critical thinking problems are provided to stretch their reasoning and communication skills. College Algebra extends learning in simplifying expressions and solving equations; solving systems of equations and optimization problems; and modeling with functions (polynomial, rational, exponential, and logarithmic). **Upon successful completion, students will progress to College Trigonometry & Analytic Geometry through teacher recommendation.**

6276 College Trigonometry & Analytic Geometry

6276CEFR College Trigonometry & Analytic Geometry (may be taken for concurrent enrollment credit through FRCC)



Credits: 10
Prerequisites: Successful completion of College Algebra
Meets requirement(s): Mathematics
Open to Grades: 9, 10, 11 & 12

College Trigonometry & Analytic Geometry is the second half of a post-Algebra 2 class to bridge students to Calculus topics. Students are encouraged to represent problems algebraically, pictorially, (cont.)

6276 College Trigonometry & Analytic Geometry

6276CEFR College Trigonometry & Analytic Geometry

Continued.....

verbally and graphically. Critical thinking problems are provided to stretch their reasoning and communication skills. College Trigonometry & Analytic Geometry explores numerical and analytical trigonometry; application of trigonometric functions; vectors; polar coordinates; analytic geometry; sequences and series; and mathematical induction. Upon successful completion, students may progress to Calculus through teacher recommendation.

Upon successful completion, students can progress to Calculus I through teacher recommendation

6290 AP Calculus Ab

6290 CECU AP Calculus Ab (Calculus I) (may be taken for concurrent enrollment credit through CU Denver)



Credits: 10
Prerequisites: College Trigonometry and Analytic Geometry
Meets requirement(s): Mathematics
Open to Grades: 9, 10, 11 & 12

Calculus is a study of all topics traditionally offered in a college Calculus I course. Topics covered are limits derivatives of algebraic functions applications of the derivatives applications of the definite integral transcendental functions and methods of integration. This course will help prepare the student to take the AP-BC Calculus test.

6291 AP Calculus Bc

6291 CECU AP Calculus Bc (Calculus II) (may be taken for concurrent enrollment credit through CU Denver)



Credits: 10
Prerequisites: AP Calculus Ab
Meets requirement(s): Mathematics
Open to Grades: 9, 10, 11 & 12

Calculus is a study of all topics traditionally offered in a freshman college calculus course. Topics covered are limits, derivatives of algebraic functions, applications of the derivatives, applications of the definite integral transcendental functions and methods of integration in function, parametric vector and polar modes. This course will help prepare the student to take the AP Calculus test.

6297 Calculus III

6297 CECU Calculus III (may be taken for concurrent enrollment credit through CU Denver)



Credits: 10
Prerequisites: Calculus Bc
Meets requirement(s): Mathematics
Open to Grades: 9, 10, 11 & 12

This is the third course of a three-semester sequence in Calculus. Vector algebra and analytic geometry in two and three dimensions; multivariable differential Calculus and tangent planes; multivariable integral Calculus; optimization and Lagrange multipliers; vector Calculus including Green's and Stokes's theorems.

6298 Differential Equations

6298 CECU Differential Equations (may be taken for concurrent enrollment credit through CU



Denver)

Credits: 10
Prerequisites: Calculus III
Meets requirement(s): Mathematics
Open to Grades: 9, 10, 11 & 12

This course meets the district goal of having students be given opportunities to earn credit beyond high school. It offers students who have completed math through Multivariable Calculus an opportunity to continue in the math progression. ***At FRHS: The course would satisfy the next level of math, especially for our gifted and talented students in mathematics. The construction of mathematical models to address real-world problems has been one of the most important aspects of each of the branches of science. It is often the case that these mathematical models are formulated in terms of equations involving functions as well as their derivatives. Such equations are called differential equations. If only one independent variable is involved, often time, the equations are called ordinary differential equations. The course will demonstrate the usefulness of ordinary differential equations for modeling physical and other phenomena. Complementary mathematical approaches for their solution will be presented, including analytical methods, graphical analysis, and numerical techniques. First and second order differential equations, Laplace transforms, systems of equations, with an emphasis on modeling and applications.***

6142CEFR – FRCC Intro to Statistics (may be taken for concurrent enrollment credit through FRCC)



Credits: 10
Prerequisites: Successful completion of Algebra II
Meets requirement(s): Mathematics
Open to Grades: 10, 11, 12

MAT 135 Introduction to Statistics: Includes data presentation and summarization introduction to probability concepts and distributions statistical inference- estimation hypothesis testing, comparison of populations, correlation, and regression. This course is guaranteed to transfer to all public colleges and universities in Colorado.

6295 – AP Statistics

Credits: 10
Prerequisites: Successful completion of College Algebra
Meets requirement(s): Mathematics
Open to Grades: 9, 10, 11 & 12

AP Statistics is a year-long mathematics course centered around four main topics: exploring data; planning a study; probability as it relates to distributions of data; and inferential reasoning. Students will be expected to propose and carry out a statistical study. This course is designed to help prepare students for the Advanced Placement exam. Prerequisite: Successful completion of College Algebra

6146 Data Analysis & Probability

Credits: 5
Prerequisite: Successful completion of Geometry
Meets requirement(s): Mathematics
Open to Grades: Teacher recommendation only

Data Analysis & Probability is a semester long course centered on state standards related to statistics and probability. The course is designed for students with an interest in this area that are not planning on taking the AP Statistics course. Data Analysis & Probability explores data by describing patterns and departures from patterns; sampling and experimentation by planning and conducting a study; probability by analyzing random phenomena using probability and simulation; and statistical inference by estimating population

6246 Discrete Mathematics

Credits: 5
Prerequisites: Successful completion of Geometry
Meets requirement(s): Mathematics
Open to Grades: Teacher recommendation only

Discrete Mathematics explores countable systems to make conclusions, decisions, or predictions. In contrast to continuous mathematics (calculus), discrete mathematics concentrates on the study of distinct objects and finite systems. Topics explored in Discrete Mathematics fall into four main categories: counting techniques, graph theory, iteration and recursion, and algorithmic problem solving and decision making.

1831CEFRHS Fundamentals of Accounting B



Credits: 5
Prerequisites: Fundamentals of Accounting A
Meets requirement(s): Mathematics
Open to Grades: 9, 10, 11, 12

This second-level accounting class goes beyond what is learned in Accounting 1 by introducing students to special journals, preparing payroll and payroll taxes, corporate accounting, and accounting for a merchandising business. QuickBooks Pro automated accounting will supplement every chapter in the textbook. Students completing this class will be prepared to be an entry-level bookkeeper or data entry clerk. **At FRHS: *Students will have the opportunity to earn a National Bookkeeper Certification.***



Fossil Ridge High School is proud to support a large, successful, and active Music Department. Students and parents are highly encouraged to contact the individual music directors for audition and placement information or contact the specific program directors directly with questions- contact information is provided under each music section. The Music Department faculty strives to provide the highest quality experiences for students, and placement in the proper performing ensemble is crucial to each student's success.

Current students: for current FRHS students registering for 10th-12th grade, placement information will be distributed by program directors to individual students in each class.

Incoming 9th grade students: All incoming 9th grade students or all students new to FRHS see the music department pages of the website and contact the appropriate director (see below) for placement information. 8th grade students at Preston MS or Kinard MS may also contact their current director for information.

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BAND



Director of Bands – Aaron Herman
970-488-6419 aaronhpsdschools.org

Associate Band Director – John Andretsos
970-488-6285 jandretsos@psdschools.org

Band Website: www.frhsbands.org

2800 Concert Band (Wind Symphony III)

Credits: 20
Prerequisites: No Experience Needed
Meets requirement(s): Fine & Applied Arts
Open to Grades: 9, 10, 11 & 12

At FRHS: The Concert Band course (called FRHS Wind Symphony III) is comprised of woodwind, brass, and percussion students with the ability to perform level IV/V music. This course is open to all students, including students who have never played a band instrument before. Incoming freshman students who wish to participate in high school band, but do not want to audition, will enroll in the “2800 Concert Band” course. Students who are new to band may need supplementary instruction via private lessons on their instrument to get caught up to the high school proficiency level. Concert Band students will study music theory, history, composition, and will perform wind band literature of high artistic merit. Students are required to attend all scheduled events that occur outside of the regular school day, including but not limited to rehearsals, concerts, pep band events, and other performances. Band is a year-long commitment at FRHS and students are required to enroll in a band class during both Fall and Spring semesters each school year. Concert Band students are highly encouraged to take private lessons on their instrument. Students in the Concert Band are highly encouraged to participate in the FRHS Marching Band. There is an enrichment fee associated with this course.*

2805 Symphonic Band (Wind Symphony II)

Credits: 20
Prerequisites: Audition or placement by Band Director; woodwind or percussion instrument
Meets requirement(s): Fine & Applied Arts
Open to Grades: 9, 10, 11 & 12

The Instrumental Fundamentals Class is designed to teach fundamental skills to woodwind, brass, and percussion players. Tone technical facility music terminology and music reading are stressed. Literature appropriate to beginner skill level is presented. Performance opportunities begin. ***At FRHS: The Symphonic Band course (called FRHS Wind Symphony II) is comprised of woodwind and percussion students with the ability to perform level V/VI music. Membership is by audition only - students who are placed into FRHS Wind Symphony II and play a woodwind or percussion instrument should enroll in the “2805 Symphonic Band” course. Symphonic Band students will study music theory, history, composition, and will perform wind band literature of high artistic merit. Students are required to attend all scheduled events that occur outside of the regular school day, including but not limited to rehearsals, concerts, pep band events, and other performances. Band is a year-long commitment at FRHS and students are required to enroll in a band class during both Fall and Spring semesters each school year. Symphonic Band students are highly encouraged to take private lessons on their instrument. Symphonic Band students are highly encouraged to participate in the FRHS Marching Band. There is an enrichment fee associated with this course.****

2806 Select Symphonic Band (Wind Symphony II)

Credits: 10
Prerequisites: Audition or placement by Band Directors; brass instrument
Meets requirement(s): Fine & Applied Arts
Open to Grades: 9, 10, 11 & 12

Membership in this ensemble provides a high level of instruction to the high school student with previous band experience. This ensemble performs music ranging from Baroque to Modern styles. ***At FRHS: The Select Symphonic Band course (called FRHS Wind Symphony II) is comprised of brass students with the ability to perform level V/VI music. Membership is by audition only - students who are placed into FRHS Wind Symphony II and play a brass instrument should enroll in the “2806 Select Symphonic Band” course. Select Symphonic Band students will study music theory, history, composition, and will perform wind band literature of high artistic merit. Students are required to attend all scheduled events that occur outside of the regular school day, including but not limited to rehearsals, concerts, pep band events, and other performances. Band is a year-long commitment at FRHS and students are required to enroll in a band class during both Fall and Spring semesters each school year. Select Symphonic Band students are highly encouraged to take private lessons on their instrument. Select Symphonic Band students are highly encouraged to participate in the FRHS Marching Band. There is an enrichment fee associated with this course.****

2795 Wind Ensemble (Wind Symphony I)

Credits: 20
Prerequisites: Audition or placement by Band Director; woodwind or brass instrument
Meets requirement(s): Fine & Applied Arts
Open to Grades: 10, 11 & 12

Wind Ensemble is comprised of the most advanced wind and percussion students. The Wind Symphony will perform wind band literature of the highest quality, and will include the study of music theory, history, and composition. Participation in the Wind Symphony carries with it the responsibility of attendance at ALL scheduled rehearsals and performances and will involve time outside of the regular school day. **At FRHS: *The Wind Ensemble course (called FRHS Wind Symphony I) is comprised of woodwind and brass students with the ability to perform level VI+ music. Membership is by audition only - students who are placed into FRHS Wind Symphony I and play a woodwind or brass instrument should enroll in the “2795 Wind Ensemble” course. Wind Ensemble students will study music theory, history, composition, and will perform wind band literature of high artistic merit. Students are required to attend all scheduled events that occur outside of the regular school day, including but not limited to rehearsals, concerts, pep band events, and other performances. Band is a year-long commitment at FRHS and students are required to enroll in a band class during both Fall and Spring semesters each school year. Wind Ensemble students are highly encouraged to take private lessons on their instrument. Wind Ensemble students are highly encouraged to participate in the FRHS Marching Band. There is an enrichment fee associated with this course.****

2891 Percussion Ensemble (Wind Symphony I)

Credits: 20
Prerequisites: Audition or placement by Band Director; percussion instrument
Meets requirement(s): Fine & Applied Arts
Open to Grades: 9, 10, 11 & 12

This course is available to students who wish to study and perform music in small ensembles. **At FRHS: *The Percussion Ensemble course (called FRHS Wind Symphony I) is comprised of percussion students with the ability to perform level VI+ music. Membership is by audition only - students who are placed into FRHS Wind Symphony I and play a percussion instrument should enroll in the “2891 Percussion Ensemble” course. Percussion Ensemble students will study music theory, history, composition, and will perform wind band literature of high artistic merit. Additionally, emphasis is placed on the fundamentals of comprehensive percussion performance (snare drum, timpani, keyboards, world percussion, marching percussion, and drum set). Students are required to attend all scheduled events that occur outside of the regular school day, including but not limited to rehearsals, concerts, pep band events, and other performances. Band is a year-long commitment at FRHS and students are required to enroll in a band class during both Fall and Spring semesters each school year. Percussion Ensemble students are highly encouraged to take private lessons on their instrument. Percussion Ensemble students are highly encouraged to participate in the FRHS Marching Band. There is an enrichment fee associated with this course.****

2830 Select Stage Band (Jazz Ensemble 1)

Credits: 2.5 credits per quarter (Meets during Q3, and Q4)
Prerequisites: Membership in a core music class or director recommendation
Meets requirement(s): Fine & Applied Arts
Open to Grades: 9, 10, 11 & 12

Participation is by audition or instructor approval. Select Stage Band is available to students wishing to increase their knowledge and abilities in music of jazz, rock, Latin and other popular music styles. The student must be a member of a concert band or show proficiency on the piano, guitar or other appropriate stage band instrument.

At FRHS: The Select Stage Band course (called Jazz Ensemble I) is comprised of woodwind, brass, and percussion students with the ability to perform advanced jazz literature. Membership is by audition only, and students must either be a member of a concert band, or show proficiency on the piano, guitar, or bass with director approval. Jazz Ensemble I students will be exposed to a variety of styles of music, as well as jazz improvisation and theory. Students are required to attend all scheduled events that occur outside of the regular school day, including but not limited to rehearsals, concerts, and other performances. Select Stage Band will meet at a regularly scheduled time outside of the normal school day during the Fall and Spring semesters, and will not take up an additional slot in the student's course load. Students who expect to be placed into Select Stage Band should enroll in this course. There is an enrichment fee associated with this course.*

2840 Stage Band (Jazz Ensemble 2)

Credits: 2.5 credits per quarter (Meets during Q3, and Q4)
Prerequisites: Membership in a core music class or director recommendation
Meets requirement(s): Fine & Applied Arts
Open to Grades: 9, 10, 11, & 12

Instructor approval is required. Stage Band is available to students who desire to acquire basic knowledge and abilities in jazz, rock, Latin, and other popular music styles. The student must be a member of a concert band or show proficiency on piano and guitar. ***At FRHS: The Stage Band course (called Jazz Ensemble II) is comprised of woodwind, brass, and percussion students with the ability to perform a variety of jazz literature. Membership is by audition only, and students must either be a member of a concert band, or show proficiency on the piano, guitar, or bass with director approval. Jazz Ensemble II students will be exposed to a variety of styles of music, as well as jazz improvisation and theory. Students are required to attend all scheduled events that occur outside of the regular school day, including but not limited to rehearsals, concerts, and other performances. Stage Band will meet at a regularly scheduled time outside of the normal school day during the Fall and Spring semesters, and will not take up an additional slot in the student's course load. Students without previous jazz experience, or who expect to be placed into Stage Band, should enroll in this course. There is an enrichment fee associated with this course.****



Marching Band is THE LARGEST ATHLETIC TEAM ON CAMPUS!

The Fossil Ridge Marching Band is comprised of all students who wish to participate in the award-winning, competitive marching band program at FRHS. Membership is open to all FRHS students, including those who play a traditional band instrument, those wishing to learn a marching band instrument, and those who plan to participate in the color guard program (flags, rifles, dance). In order to participate in Marching Band, students must either be concurrently enrolled in a concert band class, or have director approval.

The Marching Band performs at various school and community events, football games, and band competitions throughout the fall semester. Students are required to attend all scheduled rehearsals and performances. This is a co-curricular course that happens outside of the school day, including, but not limited to, band camp prior to the beginning of the school year, outside-of-school rehearsals, and evening/Saturday performances throughout the fall semester. There are activity fees associated with participation in marching band.

* See the [Schedule of Fees and Other Select Charges](#) for lab fees associated with this course

CHOIR



Director: John Garner
jgarner@psdschools.org



970-488-6287
Choir Website: www.fossilridgechoirs.com



Director: Briana McCormick
bmccormick@psdschools.org

2559 Treble Choir

Credits: 20
Prerequisites: None
Meets requirement(s): Fine & Applied Arts
Open to Grades: 9

This is a non-select group with open membership. The choir performs music for treble voices of intermediate difficulty which prepares students for advanced music study in select groups.

2558 Select Treble Choir (Fossil Fusion)

Credits: 20
Prerequisites: Concert or Treble Choir, and audition and placement by choir instructors
Meets requirement(s): Fine & Applied Arts
Open to Grades: 10, 11 & 12

Membership in this choir is by audition or by permission of instructor. The choir performs treble choir literature of intermediate to difficult levels. The choir represents the school in the community and participates in music competitions. Students provide part of the performing outfit. ***At FRHS: Fossil Fusion is a show choir, which is a choir that performs vocal music with extensive choreography. Placement into Fossil Fusion is through audition with the Choir Director. Fossil Fusion performs various music from contemporary genres including Broadway, pop and more. Fossil Fusion performs at various events throughout the year that will require time outside of the school day. Attendance at all rehearsals and performances is required.***

2540 Concert Choir (Fossil Ridge Singers)

Credits: 20
Prerequisites: None
Meets requirement(s): Fine & Applied Arts
Open to Grades: 9, 10, 11 & 12

This is a non-select mixed choir. Choral literature of appropriate difficulty is performed in preparation for advanced musical study in select groups. This is a performing group and attendance at school concerts is required. ***At FRHS: Fossil Ridge Singers will perform repertoire of the highest quality, and will include the study of the vocal mechanism, music theory and history. Attendance at all rehearsals and performances is required.***

2713 Select Choir (SaberCat Singers)

Credits: 20
Prerequisites: Concert Choir or Treble Choir, and audition and placement by choir instructors
Meets requirement(s): Fine & Applied Arts
Open to Grades: 10, 11 & 12

Membership in these groups is by audition only. Through participation in these large ensembles, students will acquire advanced performance techniques. Choirs perform in the community and at state functions. Students furnish a portion of performance outfit. ***At FRHS: SaberCat Singers will perform repertoire of the highest quality, and will include the study of the vocal mechanism, music theory and history. Placement into SaberCat Singers is through audition with the Choir Directors. SaberCat Singers perform at various events throughout the year that will require time outside of the school day. Attendance at all rehearsals and performances is required.***

2730FR Jazz Choir (Tenth Bass)

Credits: 10
Prerequisites: Concert Choir or Treble Choir, Concurrent enrollment in another choir is required, and audition and placement by choir instructors
Meets requirement(s): Fine & Applied Arts
Open to Grades: 10, 11 & 12

Placement into Tenth Bass is through audition with the Directors, and students must be a member of another choir. Tenth Bass performs various music from the contemporary Acapella and Pop genres. Tenth Bass performs at many events throughout the year that will require time outside of the school day. Attendance at all rehearsals and performances is required.

* See the [Schedule of Fees and Other Select Charges](#) for lab fees associated with this course



ORCHESTRA
Director: Louie Silvestri
970-488-6286
lsilvest@psdschools.org



2692 Orchestra 9 (Sinfonietta)

Credits: 10 + 10 (S1 + S2)
Prerequisites: Previous experience in Orchestra
Meets requirement(s): Fine & Applied Arts
Open to Grades: 9

Orchestra 9 is the entry-level course offering for all 9th grade orchestra students. There is no audition required for this ensemble. Orchestra 9 will perform as a string ensemble only and is designed to meet the needs of 9th grade string players. Advanced techniques of bowing, fingering, and tone production are pursued through the study of music ranging from Early Baroque through Contemporary and popular styles. ***At FRHS: Orchestra 9 (Sinfonietta) performs at various events throughout the year that will require time outside the school day. Attendance at all rehearsals and performances is required. Students are strongly encouraged to sign up for both semesters of this course.***

2865 Concert Orchestra

Credits: 10 + 10 (S1 + S2)
Prerequisites: Audition or placement by Orchestra Director
Meets requirement(s): Fine & Applied Arts
Open to Grades: 9, 10, 11 & 12

This course is designed for intermediate string players. Advanced techniques of bowing, fingering and tone production are pursued through the study of music ranging from Early Baroque through contemporary and popular styles. Concert Orchestra will perform as a string ensemble only and is designed to meet the needs of intermediate string players in grades 9-12. ***At FRHS: Concert Orchestra will perform as a string ensemble only and is designed to meet the needs of intermediate string players wishing to participate in the Orchestra program who may have not yet demonstrated the musical proficiency required for Symphony Orchestra. Techniques of bowing, fingering, and tone production are pursued through the study of music ranging from Early Baroque through Contemporary and popular styles. Concert Orchestra performs at various events throughout the year that will require time outside of the school day. Attendance at all rehearsals and performances is required. Students are strongly encouraged to sign up for both semesters of this course.***

2860 Symphony Orchestra

Credits: 20 (S1 & S2)
Prerequisites: Audition or placement by Orchestra Director
Meets requirement(s): Fine & Applied Arts
Open to Grades: 10, 11 & 12

This course is designed for advanced string players. Advanced techniques of bowing, fingering and tone production are pursued through the study of music ranging from Early Baroque through contemporary and popular styles. The group performs both as a string ensemble and as a symphony orchestra by combining winds, brass and percussion from advanced band. ***At FRHS: Symphony Orchestra is designed to meet the needs of advanced string players and will be composed predominantly of juniors and seniors. Advanced techniques of bowing, fingering, and tone production are pursued through the study of music ranging from Early Baroque through Contemporary and popular styles. Orchestras perform within the school, community, and at state-level events that may require time outside the school day. Attendance at all rehearsals and performances is required. Collaboration with other top musical ensembles at Fossil Ridge may be possible and are part of the overall Symphony Orchestra experience. Students will sign up for both semesters of this course.***

MUSIC ELECTIVES

2772 AP Music Theory / Humanities

Credits: 10
Prerequisites: None
Meets requirement(s): Humanities / Fine and Applied Arts
Open to Grades: 9, 10, 11 & 12



AP Music Theory is an Advanced Placement course. Course content offers the exploration of music structure, music history, and composition from a foundational to advanced level. Students have the opportunity to compose music using different styles with opportunity existing for performance of original compositions. This course should be seriously considered by students who anticipate the study of music on the college level. Students completing this course may elect to take the Advanced Placement test in music. **At FRHS: Students will be exposed to a wide-range of music and theoretical concepts. In addition, this course satisfies the Poudre School District Humanities requirement for graduation. The potential to earn college credit at the culmination of the course is possible.**

2985 Music Theory and Composition

Credits: 5 (semester course)
Prerequisites: None
Meets requirement(s): Humanities
Open to Grades: 9, 10, 11 & 12

A semester-long introductory course of traditional western music theory, this course encompasses harmony, melody, form, and composition. **At FRHS: This course is designed for students who are interested in learning about the fundamentals of harmony, melody, and musical forms, as well as composing and arranging music. Students will be exposed to a wide-range of music and theoretical concepts. In addition, this course satisfies the Poudre School District Humanities requirement for graduation.**

2512 Music Production and Technology

Credits: 5
Prerequisites: None
Meets requirement(s): Fine & Applied Arts
Open to Grades: 9, 10, 11 & 12

This semester course will introduce students to the various aspects of music and digital media production including live sound reinforcement and mixing, digital editing, multi-track recording, MIDI sequencing, music notation, and studio editing. Students will apply the tools of technology and the language of music to create original musical and multimedia works. Basic knowledge of the elements of music and/or previous experience in a music course is highly recommended. **Course enrollment will be limited to 15 students per section per semester.** There is an enrichment fee associated with this course.*

2513 Music Production and Technology 2

Credits: 10
Prerequisites: Music Production I and Teacher placement
Meets requirement(s): Fine & Applied Arts
Open to Grades: 10, 11 & 12

This course is designed for students who have completed Music Production & Technology 1 who desire an advanced, in-depth study of the various aspects of music and digital media production, including live sound reinforcement and mixing, digital editing, multi-track recording, MIDI sequencing, music notation, and studio editing. Students will apply the tools of technology and the language of music to create original musical and multimedia works. Emphasis will be placed on the acquisition and mastery of the technical skills necessary for post-secondary readiness within the music industry. Basic knowledge of the elements of music and/or previous experience in a music course is highly recommended. **Course enrollment will be limited to 15 students per section per semester.** There is an enrichment fee associated with this course.*

2560 Guitar

Credits: 5
Prerequisites: None
Meets requirement(s): Fine & Applied Arts
Open to Grades: 9, 10, 11 & 12

This course is designed to train students in techniques which include fundamental theory in reading and playing notes, rhythms, chords, scales, and accompaniment styles. This is a beginning course and students should furnish their own guitars. **At FRHS: *Students do not need to furnish their own guitar.***

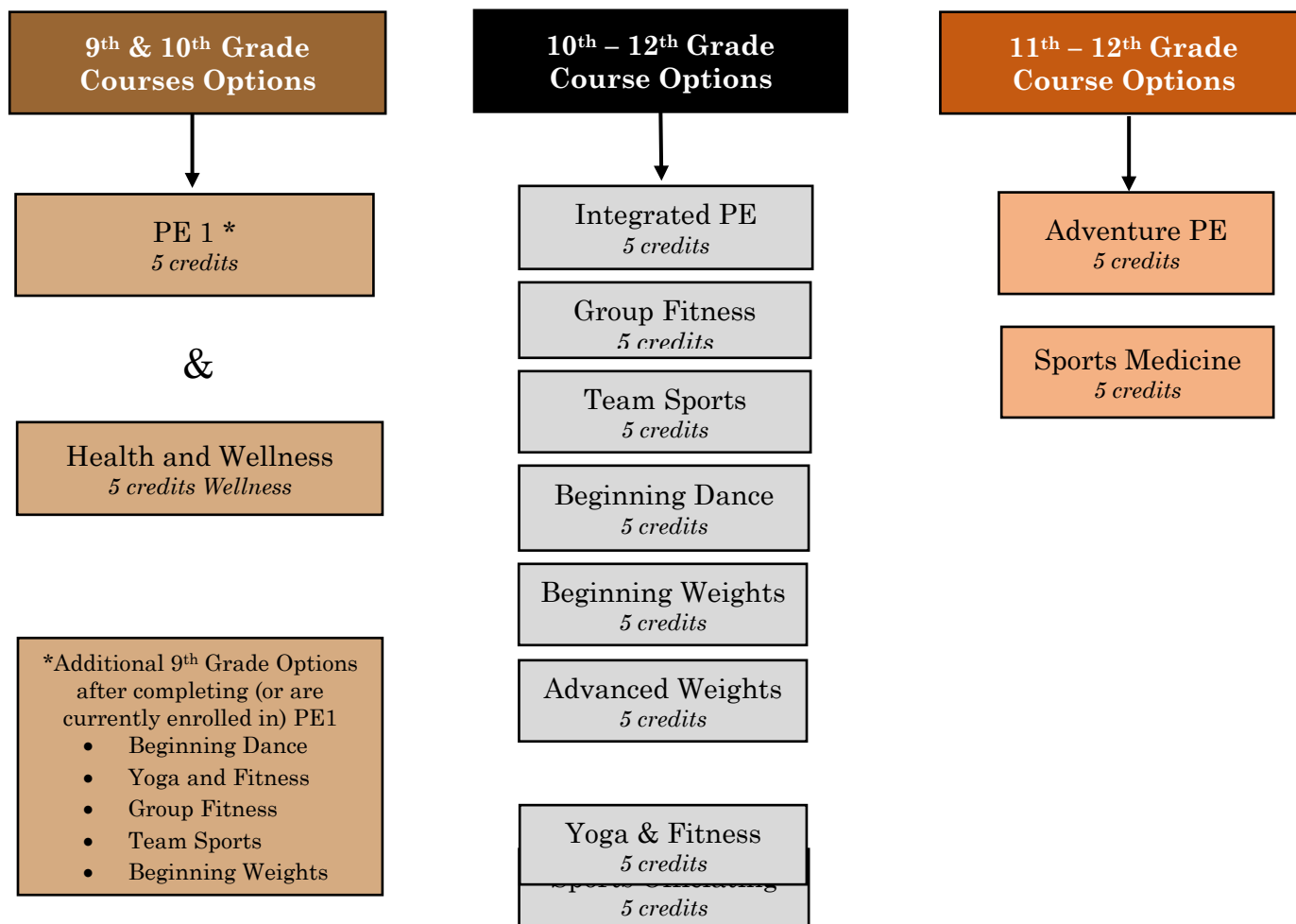
* See the [Schedule of Fees and Other Select Charges](#) for lab fees associated with this course

Physical Education



Students are strongly encouraged to take Physical Education courses throughout their four years of high school. All students are required to pass Health and 10 credit hours of Wellness/PE.

Physical Education 1 is a prerequisite for ALL other PE classes. Not all options will be offered each semester.



3204 Physical Education 1

Credits: 5
 Prerequisites: None
 Meets requirement(s): Wellness
 Open to Grades: 9, 10, 11 & 12

This class should be taken during the freshman or sophomore year and is a pre-requisite for all other physical education classes. Course could be taken concurrently with Health or Athletic Weights Conditioning with teacher approval. This class will address a variety of individual activities, team sports

and personal fitness. This class will include instructions about the use of the school's fitness center, team building activities, sports etiquette and behavior expected in the physical education class setting. This course is designed to meet the Colorado Academic Standards for Physical Education. This course fulfills Wellness credit.

3026 Health & Wellness

Credits: 5
Prerequisites: None
Meets requirement(s): Health Education/Physical Education/Wellness
Open to Grades: 10, 11 & 12

Wellness is defined as the quality or state of being in good health especially as an actively sought goal. This class teaches student how to pursue an active lifestyle along with making positive health choices. Topics of study include those aspects of wellness reflected in the Colorado Academic Standards for Physical Activity and Comprehensive Health including physical activity; healthy eating; sexual health; health promotion; emotional and social wellness; alcohol, tobacco, and drug prevention; violence-free relationships; and safety. This course fulfills 2.5 credits of Health and 2.5 credits of Wellness.

3010 Beginning Weight Training

Credits: 5
Prerequisites: Physical Education 1
Meets requirement(s): Wellness
Open to Grades: 9, 10, 11 & 12

This course is designed to improve muscular strength and endurance. It is designed to be a basic weight-training course, not a bodybuilding course. The students will be introduced to a variety of weight training techniques, methods, and principles. Students will learn the terminology, anatomy and physiology necessary to understand the basic principles behind weight training. Emphasis will be on proper lifting technique, spotting technique, and safety throughout the course. Students will learn to use the available machines, as well as free weights.

3012 Advanced Weight Training

Credits: 5
Prerequisites: Beginning Weights at FRHS
Meets requirement(s): Wellness
Open to Grades: 10, 11 and 12

This course is open only to juniors and seniors who have successfully completed a beginning weight training course at this high school. Students will review the techniques, methods and principles presented in the beginning course. Additional training methods will be introduced and practiced.

3044 Beginning Dance

Credits: 5
Prerequisites: Physical Education 1
Meets requirements: Wellness
Open to Grades: 9, 10, 11 & 12

This course will develop and extend the artistic, affective cognitive and psychomotor potential of all levels of dancers. The student will be provided with opportunities to explore, choreograph, organize, evaluate, and perform a variety of dance forms.

3067 Group Fitness

Credits: 5
Prerequisites: Physical Education 1
Meets requirements: Wellness
Open to Grades: 9, 10, 11 & 12

This course is designed to introduce physical fitness as a part of a total healthy lifestyle. The main emphasis is on cardiovascular fitness, but muscular strength, muscular endurance, coordination and flexibility will also be developed and improved. Step aerobics, low impact aerobics, and other aerobic activities will be included in the class. **At FRHS: Students will be engaging in combinations of fitness activities that include aerobic, strength and flexibility activities like kickboxing, circuit training, light weights and yoga.**

3077 Team Sports

Credits: 5
Prerequisites: Physical Education 1
Meets requirement(s): Wellness
Open to Grades: 9, 10, 11 and 12

The students will be introduced to the basic skills, strategies and formations needed to play a variety of team sports. Skills will be developed through drill and game situations. Rules, terminology and safety precautions will be presented. Cooperation and the elements of effective teamwork will be stressed in all situations.

3590 Integrated Physical Education

Credits: 5
Prerequisites: Physical Education 1
Meets requirement(s): Wellness
Open to Grades: 10, 11 & 12

This course is designed to allow able-bodied juniors and seniors to become teaching assistants in adapted physical education. They will be assisting physically and mentally disabled students participating in modified physical education activities. These students will be matched up either one to one or in small groups of special need students to work in conjunction with the paraprofessional aide. **At FRHS: This course combines an approximately equal number of students with disabilities and peers without disabilities. Students with disabilities will be paired with a partner. Students are introduced to the basic skills, strategies and formations needed to play a variety of team sports. Skills will be developed through drill and game situations. Rules, terminology and safety precautions will be presented Cooperation and the elements of effective teamwork will be stressed in all situations.**

3006 Yoga and Fitness

Credits: 5
Prerequisites: Physical Education I
Meets requirement(s): Wellness
Open to Grades: 9, 10, 11 & 12

Yoga will be the emphasis in this course. This course will offer students a chance to explore the connection between mind and body and to use this understanding as a basis for a lifelong commitment to wellness. The course is designed to give students an introduction to Yoga as a means of physical and emotional wellness. This course will also include a variety of cardiovascular, strength and flexibility exercises to address all of the health-related fitness components. In addition, Mindfulness practices will also be taught.

3030 Sports Medicine

Credits: 5
Prerequisites: Physical Education I
Meets requirement(s): Elective
Open to Grades: 11 & 12

This course provides an opportunity for the study and application of the components of sports medicine including but not limited to: sports medicine related careers, organizational and administrative considerations, prevention of athletic injuries, recognition, evaluation, and immediate care of athletic injuries, rehabilitation and management skills, taping and wrapping techniques, first aid/CPR/AED, emergency procedures, nutrition, sports psychology, human anatomy and physiology, therapeutic modalities, and therapeutic exercises.

3600 Adventure Physical Education*

Credits: 5
Prerequisites: Physical Education I
Meets requirement(s): Wellness
Open to Grades: 11 & 12

This class will address intermediate or highly skilled individuals who wish to continue with traditional activities in an advanced level, as well as being exposed to new and non-traditional sports. Past examples of classes include wall climbing, mountain bike, polo, archery, scuba diving, ropes course, and orienteering. **At FRHS: *This class is for juniors and seniors only. Students must provide of have access to have access to transportation (a driver's license is recommended). Fees will be charged to cover field trip expenses and students will be expected to provide their own bike and helmet. Because this course is not offered to meet a graduation requirement, fees cannot be waived.*** *There is a fee for this course.

3032 Sports Officiating

Credits: 5
Prerequisites: Physical Education I
Meets requirement(s): Elective
Open to Grades: 10, 11 & 12

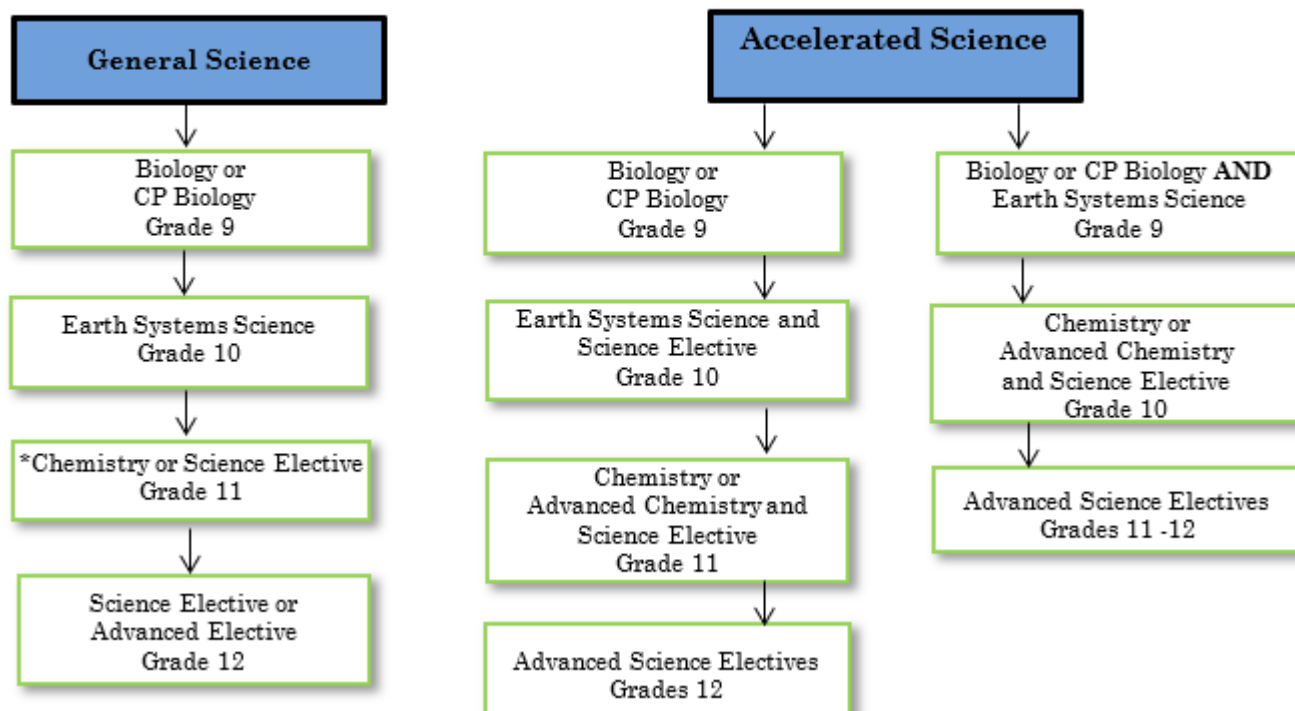
This sports officiating course will provide students with the knowledge, skills, and abilities to serve as a referee, umpire, judge, or other official for a sports contest, emphasizing rule interpretation and the proper mechanics of officiating.

* See the [Schedule of Fees and Other Select Charges](#) for lab fees associated with this course

Science



Fossil Ridge High School Science Pathways



- * Please note: Chemistry is required as a prerequisite for several advanced science options.
- All students are required to take both Biology (or CP Biology) and Earth Systems in order to meet the required state standards. These two courses are also foundational for all other science courses.
- Students in any pathway may take more than one science class per year provided appropriate prerequisites have been met.
- All students are required to take at least 30 credits of science; there are additional science courses not listed for the student who has difficulty meeting the 30 credit requirement.
- Incoming 9th graders who choose an accelerated option should have advanced math skills (completed Algebra 1 or higher), plan on taking more than 40 credits of science, have excellent academic skills and a strong work ethic.

Science Electives
Chemistry
Physics
Environmental Science
Botany, Microbiology & Zoology
Cell Biology, Genetics & Biotechnology
Introduction to Health Sciences

Advanced Science Electives
Advanced Chemistry
Anatomy & Physiology
AP Biology
AP Chemistry
AP Environmental Science
AP Physics I
AP Physics C
Astronomy

6710 Biology

Credits: 10
Prerequisites: None
Meets requirement(s): Science
Open to Grades: 9 & 10

Biology is a standards-based life science course that explores the interactions of the living world. This course illustrates the relevance and impact of science in society, while engaging students in the mastery of basic biology concepts that will prepare them for higher level life sciences. Topics of study include cell structure and function, genetics, biotechnology, evolution, ecology, and other various topics. **At FRHS: *Students will participate in laboratory-based activities.***

6709 CP Biology

Credits: 10
Prerequisites: Algebra 1
Meets requirement(s): Science
Open to Grades: 9 & 10

Pre-AP Biology is a standards-based life science course that explores the interactions of the living world. This course illustrates the relevance and impact of science in society, while engaging students in the mastery of basic biology concepts that will prepare them for higher level life sciences. Topics of study include cell structure and function, genetics, evolution, ecology, and other various topics. The course includes more rigorous reading and intensive lab work that is intended to prepare students, in skill and content knowledge, to take Advanced Placement Biology.

At FRHS: *This is a high-level class that requires exceptional motivation and interest in the sciences. It is strongly recommended that a student earned an “A” in 8th grade science. Student must also demonstrate high level technical reading and writing skills for lab reports and assignments. Students will need about 3-4 hours outside of class each week in order to master the content of this class. This class is not required to take AP Biology.*

6809 Earth Systems Science

Credits: 10
Prerequisites: Algebra 1 (Geometry or higher concurrently)
Meets requirement(s): Science
Open to Grades: 10, 11, 12 (9th grade allowed with Biology or CP Biology co-requisite)

Earth Systems Science (ESS) is a standards-based physical science course that explores the fundamentals of energy and matter and the interactions of the various spheres of Earth (atmosphere, hydrosphere, geosphere) as a dynamic, evolving system. This course illustrates the relevance and impact of science in society, while engaging students in the mastery of basic physics and chemistry concepts that will prepare them for higher level physical sciences.

At FRHS: *This is a valuable standards-based course designed to provide students with the necessary process, scientific reasoning, laboratory and 21st Century skills that are critical for development of scientific literacy. Students who can demonstrate strong science skills and earth systems science content knowledge on a placement test given during the prior spring semester will be able to enroll in higher level science courses.*

6760 AP Biology

Credits: 10
Prerequisites: Biology, Chemistry (Anatomy and Physiology are strongly suggested)
Meets requirement(s): Science
Open to Grades: 11 & 12

AP Biology, as designed by the College Board, is a rich and challenging class for highly motivated students in biology. The rigor of this class stems from the depth of content, as well as its emphasis on the scientific process through completion of several college laboratories. Students will use a college textbook and supplementary material to understand the following major themes in biology, evolution driving, relationship of structure to function and regulation of life processes, interdependence in nature and science as it relates to technology and society. Successful performance on the national AP Biology exam may result in the granting of college credit at many universities.

6830 Anatomy and Physiology

Credits: 10
Prerequisites: Biology, Earth Systems Science
Meets requirement(s): Science
Open to Grades: 11 & 12

This upper level course is an in-depth study of the major human systems, their structure, functions, integrations of all systems, clinical applications, health and wellness, and mechanisms for maintaining homeostasis. The course also introduces common human disease processes. The laboratory component includes anatomical studies using microscopy, dissection, and the study of physiological concepts via experimentation.

6860 Zoology **

Credits: 5 (semester course)
Prerequisite(s): Biology & ESS (concurrent)
Meets requirement(s): Science
Open to Grades: 10, 11 & 12

Zoology students study the major phyla of the animal kingdom. Life cycles, anatomy and physiology, reproduction, ecology, and economic benefits are emphasized. Correlated sciences would include entomology, herpetology, mammalogy, parasitology, and ornithology. This class should appeal not only to students who desire a career with animals, but also for others who have an interest in learning about the natural world around them. Laboratory dissections are a required component of this class.

At FRHs: *Zoology and Botany and Microbiology are merged into one integrated yearlong course.***

6840 Botany and Microbiology**

Credits: 5 (semester course)
Prerequisites: Biology & ESS (concurrent)
Meets requirement(s): Science
Open to Grades: 10, 11 & 12

This course studies plants, viruses, and bacteria. Class topics include phylogeny, plant anatomy and physiology, growth requirements, and edible species. Also included is a study of microorganisms with an emphasis on pathological species. Aseptic laboratory techniques are used. This course is for students with an interest in biology and the biomedical sciences. **At FRHS: *** Zoology and Botany and Microbiology are merged into one integrated yearlong course. There is a course fee. ****

6790 Chemistry

Credits: 10
Prerequisites: Earth Systems Science and
Concurrent Algebra II
Meets requirement(s): Science
Open to Grades: 10, 11 & 12

Chemistry is a two-term laboratory class exploring the interactions of matter. Units of study include atomic structure, stoichiometry, nomenclature, chemical bonding, gases, and acids and bases. Its approach also emphasizes rigorous problem-solving skills and quantitative laboratory work necessary for college. **At FRHS: This course is inquiry-based course that utilizes an on-line homework program called CALM. There is a course fee for the class course workbook. ***

6804 Advanced Chemistry

Credits: 10
Prerequisites: Algebra 2 and Earth Systems Science
Meets requirement(s): Science
Open to Grades: 10, 11 & 12

Advanced Chemistry is a rich and challenging class for highly motivated students in chemistry. The rigor of this class stems from the depth of content, as well as its emphasis on the science process through completion of laboratory activities. Topics of study include atomic structure, chemical bonding, periodicity, nomenclature and reactions, solution chemistry, stoichiometry, thermochemistry, the behavior of gases, and other various topics. **At FRHS: This course is designed for students who have a strong interest in science, poses advanced math skills, and are independent learners. This course is not a requirement for those students who plan on taking AP Chemistry. Students in Advanced Chemistry will use ALEKS, an online program, for out of class practice and application of material learned in class. There is a fee for a subscription to the ALEKS program (subject to change) and, also for the course-book notes. ***

6800 AP Chemistry

Credits: 10
Prerequisites: Chemistry and Algebra II
Meets requirement(s): Science
Open to Grades: 10, 11 & 12

AP Chemistry, as designed by the College Board, is a rich and challenging class for highly motivated students in chemistry. The rigor of this class stems from the depth of content, as well as its emphasis on the scientific process through completion of several college laboratories. Students will use a college textbook and supplementary material to study chemical kinetics and equilibrium, acid base chemistry, electrochemistry, thermodynamics, and other miscellaneous topics. Successful performance on the national AP Chemistry exam may result in the granting of college credit at many universities. **At FRHS: Students must have access to a computer and internet for successful completion of course work.**

6820 Physics

Credits: 10
Prerequisites: Algebra 2 (concurrent) with strong Math skills
Meets requirement(s): Science
Open to Grades: 10, 11 & 12

Physics is a laboratory course exploring the interactions of energy and matter. Units of study include forces, motion, energy waves, sound, light and introductions to electricity and modern physics. Its approach also emphasizes rigorous problem-solving skills and quantitative laboratory work necessary for college. **At FRHS: This class is available to 9th graders enrolled concurrently in Biology / CP Biology. Must be recommended for Algebra 2 or higher in 9th grade and intend in taking 4 more years of science in high school.**

6822 AP Physics 1

Credits: 10
Prerequisites: Algebra 2 with strong Math skills
Meets requirement(s): Science
Open to Grades: 10, 11 & 12

AP Physics 1 is equivalent to a first-semester college course in algebra-based physics designed by the College Board. It is a rich and challenging class for highly motivated students in physics. The rigor of this class stems from the depth of content, as well as its emphasis on the scientific process through completion of several college laboratories. Students will use a college textbook and supplementary material to cover Newtonian mechanics (including dynamics and angular momentum); work, energy, and power; mechanical waves and sound. It will also introduce electric circuits. Successful performance on the national AP Physics exam may result in the granting of college credit at many universities.

6826 AP Physics C

Credits: 10
Prerequisites: Calculus (concurrent). It is recommended that students have successfully completed either a Physics class or a Calculus class
Meets requirement(s): Science
Open to Grades: 10, 11 & 12

AP Physics C is a calculus-based course designed by the College Board. It is a rich and challenging class for highly motivated students in physics. The rigor of this class stems from the depth of content as well as its emphasis on the scientific process through completion of several college laboratories. Students will use a college textbook and supplementary material to study mechanics, thermodynamics, waves, electricity and magnetism, atomic and nuclear physics, and other miscellaneous topics. Successful performance on the national AP Physics exam may result in the granting of college credit at many universities.

6770 Environmental Science

Credits: 10
Prerequisites: Biology and ESS (concurrent)
Meets requirement(s): Science
Open to Grades: 10, 11 & 12

Environmental Science is a course designed for the student who is interested in local, national, and global environmental issues. Topics of instruction may include ecology, biomes, energy utilization and alternate energy sources, land use patterns, pollution, population, and analysis of environmental problems. **At FRHS: *Environmental Science is a laboratory-based course. It is NOT recommended that a student take BOTH Environmental Science and AP Environmental Science.***

6881 Astronomy

Credits: 10
Prerequisites: Algebra 2
Meets requirement(s): Science
Open to Grades: 10, 11 & 12

Astronomy goes beyond what is offered in Earth Systems Science and Geospace. Topics include the history of astronomy, observational astronomy and mathematics, telescope fundamentals and design, space exploration, the solar system, star evolution, galaxy evolution, and the history and future of the Universe. Students will be performing laboratory-based activities. Students may have an opportunity to attend evening and early morning observations at the school, as well as field trips to local observatories and planetariums. Students will also run state-of-the-art CCD telescope cameras via the internet to image objects of their choice.

6774 AP Environmental Science

Credits: 10
Prerequisites: Biology, Chemistry
Meets requirement(s): Science
Open to Grades: 11 & 12

AP Environmental Science, as designed by the College Board, is a rich and challenging class for highly motivated students interested in environmental science. The rigor of this class stems from the depth of content, as well as its emphasis on the scientific process through completion of several college laboratories. Students will use a college textbook and supplementary material to study concepts and methodologies to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine the alternative solutions for resolving and/or preventing them. Successful performance on the national AP Environmental Science exam may result in the granting of college credit at many universities.

6850 Cell Biology and Genetics **

Credits: 5 (semester course)
Prerequisite: Successful completion of Biology or CP Biology
Meets requirement(s): Science
Open to Grades: 10, 11 & 12

The class will focus on the cell as the basic unit of structure and function for living systems, cell anatomy metabolic processes at the molecular level and cell division. The genetic portion deals with Mendelian genetics, molecular genetics, chromosomal mutation, population genetics and statistical evaluation of data. This class is strongly recommended for students with interests in biology and biomedicine. Laboratory activities will relate to these topics and statistical evaluation of data will be used. **At FRHS: ***Biotechnology and Cell Biology and Genetics are merged into one integrated yearlong course. There is a course fee* associated with Cell Biology AND Biotechnology.***

6748 Biotechnology **

Credits: 5 (semester course)
Prerequisites: Successful completion of Biology or CP Biology
Meets requirement(s): Science
Open to Grades: 10, 11 & 12

Biotechnology uses a hands-on approach to explore the use of DNA technology in medicine, agriculture, law enforcement, and industry. This class is designed to introduce students to various lab techniques utilized in the life sciences. Students will complete labs in microbiology, use state of the art technology to isolate and manipulate DNA, and practice techniques used in crime scene investigation. **At FRHS: ***Biotechnology and Cell Biology and Genetics are merged into one integrated yearlong course.***

3075S1 Introduction to Health Science A

Credits: 5
Prerequisites: None
Meets requirements(s): Science
Open to Grades: 9, 10, 11 & 12

This introductory Health Science course provides an overview of the challenging environments and occupation is the healthcare field. This course introduces students to the five pathways that make up the health science cluster (Diagnostic, Therapeutic, and Support Services, Health Informatics, Biotechnology Research and Development). In addition, students are provided a hands-on application of the foundational skills/ knowledge including health maintenance, employability skills, teamwork, healthcare systems, communications, and legal issues in healthcare. **At FRHS there are no science course prerequisites to enroll in this course.**

* See the [Schedule of Fees and Other Select Charges](#) for lab fees associated with this course



Social Studies

9th Grade Options

World History
CP World History
(College Prep)
World Geography &
Culture

10th Grade Options

World History
CP World History
(College Prep)
World Geography &
Culture
AP Human Geography
Economics
Economics of Social
Issues


11th Grade Options

United States History
AP US History
Economics
Economics of Social
Issues
AP Microeconomics
AP Macroeconomics

12th Grade Options

American Government
AP US Government
Economics
Economics of Social
Issues
AP Microeconomics
AP Macroeconomics

Electives Options

AP World History 
Current Issues
Psychology
AP Psychology
Sociology
Intro to Sociology (FRCC)
History of Rock and Roll

Humanities Options

American Humanities
Classical Humanities
Native American Humanities
Contemporary Humanities
World Humanities – Asia

COURSE DESCRIPTIONS

9th Grade Options

7250 World History

Credits: 10
Prerequisites: None
Meets requirement(s): World Language/Culture or Social Studies
Open to Grades: 9 & 10

The World History course takes a true global approach to the study of history, examining multiple civilizations from a variety of cultures including Africa, Asia, Europe, and the Americas. Concepts such as Revolution, Power, Interdependence, Creativity, Identity, and Conflict are emphasized throughout the course. Students use the historical method of inquiry to ask questions, evaluate sources, develop critical thinking skills, and back up interpretations with evidence. In addition to learning about world history, students build a foundation of relevant skills that support success in required social studies courses, as well as in post-secondary life.

7226 CP (College Prep) World History

Credits: 10
Prerequisites: None
Meets requirement(s): World Language/Culture or Social Studies
Open to Grades: 9 & 10

The College Prep World History course explores European and non-western civilizations through key concepts and themes. Historical thinking skills, such as interpretation and analysis, are specific area of emphasis. College Prep World History students will also develop their ability to read critically and write analytically. This rigorous course is designed to prepare students for higher intellectual levels of engagement as they progress into subsequent social studies courses.

7210 World Geography and Culture

Credits: 10
Prerequisites: None
Meets requirement(s): Social Studies
Open to Grades: 9 & 10

This course is a study of geography with a primary emphasis on Asia, Africa, and Latin America. The course analyzes the physical geography, cultural, political, religious, and historical perspective of each region.

10th Grade Options

7250 World History

Credits: 10
Prerequisites: None
Meets requirement(s): World Language/Culture or Social Studies
Open to Grades: 9 & 10

The World History course takes a true global approach to the study of history, examining multiple civilizations from a variety of cultures including Africa, Asia, Europe, and the Americas. Concepts such as Revolution, Power, Interdependence, Creativity, Identity, and Conflict are emphasized throughout the course. Students use the historical method of inquiry to ask questions, evaluate sources, develop critical thinking skills, and back up interpretations with evidence. In addition to learning about world history, students build a foundation of relevant skills that support success in required social studies courses, as well as in post-secondary life.

7226 CP (College Prep) World History

Credits: 10
Prerequisites: None
Meets requirement(s): World Language/Culture or Social Studies
Open to Grades: 9 & 10

The College Prep World History course explores European and non-western civilizations through key concepts and themes. Historical thinking skills, such as interpretation and analysis, are specific area of emphasis. College Prep World History students will also develop their ability to read critically and write analytically. This rigorous course is designed to prepare students for higher intellectual levels of engagement as they progress into subsequent social studies courses.

7210 World Geography and Culture

Credits: 10
Prerequisites: None
Meets requirement(s): Social Studies
Open to Grades: 9 & 10

This course is a study of geography with a primary emphasis on Asia, Africa, and Latin America. The course analyzes the physical geography, cultural, political, religious, and historical perspective of each region.

7227 AP Human Geography

Credits: 10
Prerequisites: None
Meets requirement(s): Social Studies
Open to Grades: 10

The AP geography course will introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to analyze human social organization and its environmental consequences. Students learn about the methods and tools geographers use in their science and practice. ***It is recommended, but not required, that students first take World History or CP (College Prep) World History.***

7230 Economics

Credits: 5
Prerequisites: None
Meets requirement(s): Economics
Open to Grades: 10, 11 & 12 (*12th is recommended*)

As the world's economies become increasingly interdependent, it is essential that students become economic thinkers. Using micro and macro-economic tools and concepts, students in this course will build the foundation necessary for understanding real-world economic issues. Students will understand the allocation of scarce resources in societies through analysis of individual choice, market interaction, and public policy. Units of study include: Economic Thinking, Market Capitalism, The Business Cycle, Monetary Policy, Fiscal Policy, and Global Markets. The economic foundation built in this course will also enhance understanding of other social science disciplines, such as political science, geography, history, and sociology. This course fulfills the PSD graduation requirement for Economics.

7236 Economics of Social Issues

Credits: 5
Prerequisites: None
Meets requirement(s): Economics
Open to Grades: 10, 11 & 12

The course will approach economics through the lens of current societal issues, problems, and topics and will then explore the economics concepts, content, and skills that help us to understand and solve those problems. It will be a thematic approach toward understanding economics concepts and principles. Those themes will include sports; wealth, poverty, and inequality; globalization; education and the education gap; banking, the stock market, and money; and crime and welfare.

7220 United States History

Credits: 10
Prerequisites: None
Meets requirement(s): US History
Open to Grades: 11

This course is a chronological survey of events and people that characterize each of the major eras in U.S. History. The eras studied include: The Americas to 1600, The Colonial Era, The Revolutionary Era, Nation Building, The Expanding Nation, Civil War and Reconstruction, Development of the Industrial United States, The Progressive Era, Emergence of the United States as a World Power, the 20's Prosperity and Problems, Depression and New Deal, World War II and Post War United States, and Contemporary United States. The course analyzes political, social, economic, religious, and military issues.

7225 AP United States History

Credits: 10
Prerequisites: None
Meets requirement(s): US History
Open to Grades: 11

This course is designed to prepare the student to challenge the Advanced Placement Examination in United States History. The chronology will begin at the pre-Columbus experience and conclude with America as a world power in the late 20th Century. This course requires extensive reading, writing, research, and participation. The reading -text, historical documents, and historiography - is at the college fresh-man/sophomore level and students may expect to read perhaps 50 to 100 pages a week.

7230 Economics

Credits: 5
Prerequisites: None
Meets requirement(s): Economics
Open to Grades: 10, 11 & 12 (*12th is recommended*)

As the world's economies become increasingly interdependent, it is essential that students become economic thinkers. Using micro and macro-economic tools and concepts, students in this course will build the foundation necessary for understanding real-world economic issues. Students will understand the allocation of scarce resources in societies through analysis of individual choice, market interaction, and public policy. Units of study include: Economic Thinking, Market Capitalism, The Business Cycle, Monetary Policy, Fiscal Policy, and Global Markets. The economic foundation built in this course will also enhance understanding of other social science disciplines, such as political science, geography, history, and sociology. This course fulfills the PSD graduation requirement for Economics.

7236 Economics of Social Issues

Credits: 5
Prerequisites: None
Meets requirement(s): Economics
Open to Grades: 10, 11 & 12

The course will approach economics through the lens of current societal issues, problems, and topics and will then explore the economics concepts, content, and skills that help us to understand and solve those problems. It will be a thematic approach toward understanding economics concepts and principles. Those themes will include sports; wealth, poverty, and inequality; globalization; education and the education gap; banking, the stock market, and money; and crime and welfare.

7234 AP Micro Economics

Credits: 5
Prerequisites: None
Meets requirement(s): Economics
Open to Grades: 11 & 12 (*12th is recommended*)

The purpose of this AP course in economics is to give students a thorough understanding of the principals of micro and macroeconomics. Microeconomics studies the functions of individual decision makers, both consumers and producers, within the economic system. It places primary emphasis on the nature and functions of product markets and includes the study of factor markets and the role of government in promoting greater efficiency and equity in the economy. Macroeconomics studies the economic system as a whole. Emphasis is placed on the study of national income and price-level determination. Students are familiarized with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. This course meets the PSD graduation requirement for Economics.

7233 AP Macro Economics

Credits: 5
Prerequisites: None
Meets requirement(s): Economics
Open to Grades: 11 & 12 (*12th is recommended*)

The purpose of this AP course in economics is to give students a thorough understanding of the principals of micro and macroeconomics. Microeconomics studies the functions of individual decision makers, both consumers and producers, within the economic system. It places primary emphasis on the nature and functions of product markets and includes the study of factor markets and the role of government in promoting greater efficiency and equity in the economy. Macroeconomics studies the economic system as a whole. Emphasis is placed on the study of national income and price-level determination. Students are familiarized with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. This course meets the PSD graduation requirement for Economics.

12th Grade Options

7270 American Government

Credits: 5
Prerequisites: United States History
Meets requirement(s): Civics/Government
Open to Grades: 12

The focus of this course is U.S. National Government and politics. It will emphasize the institutions and political forces that have shaped the U.S. National Government and examine the behavior of individuals in the American political system and the non-institutional forces that influence decision-making in U.S. politics (such as political parties, interest groups, and the media.) This course enables the student to understand the functions of the U.S. National Government and how citizens can access the decision-making process. Students will gain a fuller understanding of the American political system.

7275 AP United States Government and Politics

Credits: 5
Prerequisites: United States History
Meets requirement(s): Civics/Government
Open to Grades: 12

This course is designed to prepare the student to challenge the Advanced Placement Examination in United States Government. The focus of this course is U.S. National Government and politics. It also examines the behavior of individuals and groups in the decision-making process and the non-institutional forces that influence United States politics. The reading - text, original documents, government reports, and court cases is at the college freshman/sophomore level, and students can expect the material to be intellectually challenging.

7230 Economics

Credits: 5
Prerequisites: None
Meets requirement(s): Economics
Open to Grades: 10, 11 & 12 (*12th is recommended*)

As the world's economies become increasingly interdependent, it is essential that students become economic thinkers. Using micro and macro-economic tools and concepts, students in this course will build the foundation necessary for understanding real-world economic issues. Students will understand the allocation of scarce resources in societies through analysis of individual choice, market interaction, and public policy. Units of study include: Economic Thinking, Market Capitalism, The Business Cycle, Monetary Policy, Fiscal Policy, and Global Markets. The economic foundation built in this course will also enhance understanding of other social science disciplines, such as political science, geography, history, and sociology. This course fulfills the PSD graduation requirement for Economics.

7236 Economics of Social Issues

Credits: 5
Prerequisites: None
Meets requirement(s): Economics
Open to Grades: 10, 11 & 12

The course will approach economics through the lens of current societal issues, problems, and topics and will then explore the economics concepts, content, and skills that help us to understand and solve those problems. It will be a thematic approach toward understanding economics concepts and principles. Those themes will include sports; wealth, poverty, and inequality; globalization; education and the education gap; banking, the stock market, and money; and crime and welfare.

7234 AP Micro Economics

Credits: 5
Prerequisites: None
Meets requirement(s): Economics
Open to Grades: 11 & 12 (*12th is recommended*)

The purpose of this AP course in economics is to give students a thorough understanding of the principals of micro and macroeconomics. Microeconomics studies the functions of individual decision makers, both consumers and producers, within the economic system. It places primary emphasis on the nature and functions of product markets and includes the study of factor markets and the role of government in promoting greater efficiency and equity in the economy. Macroeconomics studies the economic system as a whole. Emphasis is placed on the study of national income and price-level determination. Students are familiarized with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. This course meets the PSD graduation requirement for economics.

7233 AP Macro Economics

Credits: 5
Prerequisites: None
Meets requirement(s): Economics
Open to Grades: 11 & 12 (*12th is recommended*)

The purpose of this AP course in economics is to give students a thorough understanding of the principals of micro and macroeconomics. Microeconomics studies the functions of individual decision makers, both consumers and producers, within the economic system. It places primary emphasis on the nature and functions of product markets and includes the study of factor markets and the role of government in promoting greater efficiency and equity in the economy. Macroeconomics studies the economic system as a whole. Emphasis is placed on the study of national income and price-level determination. Students are familiarized with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. This course meets the PSD graduation requirement for Economics.

Humanities Options

3742 Native American Humanities

Credits: 5
Prerequisites: None
Meets requirement(s): Humanities
Open to Grades: 10, 11, 12

Native American History and Humanities studies the history and culture of Native Americans, including North, Central, and South America. Particular emphasis is placed on cultures and societies of North America. Students will explore early Paleo-Indian society, the diversity of Native American cultures, the religious and social worlds of Native Americans, artistic and architectural traditions, and the interactions and transformations that accompanied European and American empire-building. Throughout, students will gain a deeper understanding of Native America, engage with differing interpretations of the past, and analyze historical change over time.

3740 American Humanities

Credits: 5
Prerequisites: None
Meets requirement(s): Humanities
Open to Grades: 10, 11 & 12

This class combines United States history, humanities, and United States literature. Students are encouraged to explore their roles in the community while incorporating art, music, and current events within historical units. ***At FRHS: American Humanities is designed to give students a broader appreciation of and exposure to United States culture from its foundation to the present. By becoming aware of the various movements in literature, events in history, fine arts works, musical movements, and various forms of popular culture, students will consider how people within different eras of American history have defined their understanding of what it is to be an American and how that identity has evolved.***

3770 Classical Humanities

Credits: 5
Prerequisites: None
Meets requirement(s): Humanities
Open to Grades: 10, 11 & 12

Students will study the history of Western Civilization through the literary, philosophical, and artistic expressions of major historical periods. The student will examine a variety of responses to the universal questions that humans have explored through the humanities. The course will include Ancient Greece and Rome, Hebrew thought, the Christian Middle Ages, and the European Renaissance and Reformation.

3780 Contemporary Humanities

Credits: 5
Prerequisites: None
Meets requirement(s): Humanities
Open to Grades: 10, 11 & 12

Students will study the history of Western Civilization through the literary, philosophical, and artistic expressions of major historical periods. The student will examine a variety of responses to the universal questions that humans have explored through the humanities. This course is a continuation of the first-semester Classical Humanities, studying the development of Western Civilization in the 17th, 18th, 19th, and 20th centuries. **At FRHS: *This course will focus on European contributions to the Humanities from the Enlightenment to World War II. It is recommended, but not required, that students first take World History or CP (College Prep) World History.***

3800 World Humanities Asia

Credits: 5
Prerequisites: None
Meets requirement(s): Humanities
Open to Grades: 10, 11 & 12

Students will study the cultures of India, China, Japan and other Asian countries through historical events, art, literature, philosophy, music, and architecture. Study will include relating events and concepts of Asia with those of Western Civilization. **At FRHS: *World religions will also be a focus of study.***

Electives Options

7281 Current Issues

Credits: 5
Prerequisites: None
Meets requirement(s): Elective
Grades: 9, 10, 11, 12

This course helps students to understand current local, national, and international issues and their historical background. This understanding will provide an opportunity to develop reasoned opinions. The student will develop an awareness of positions held by individuals and groups affected by issues.

7243CECU AP World History



Credits: 10
Prerequisites: None
Meets requirement(s): Social Studies
Open to Grades: 10, 11 & 12

AP World History is a survey of world history with a truly global perspective. The class emphasizes regional comparisons in broadly defined eras extending from 8,000 BCE to the present, with greater attention to the period 1200 CE to the present. Particular importance is placed on recognizing patterns of change throughout world history. The course will address five large themes, including Interaction Between Humans and the Environment; Development and Interaction of Cultures; State Building, Expansion and Conflict; Creation, Expansion, and Interaction of Economic Systems; and Development and Transformation of Social Structures. Students will have the option to earn college credit. **At FRHS: *Students may earn college credit by either enrolling concurrently through CU-Succeed or taking the AP World History Exam.***

7240 Psychology

Credits: 5
Prerequisites: None
Meets requirement(s): Elective
Open to Grades: 9, 10, 11 & 12

Psychology will pursue the fascinating question of why human beings behave as they do. Students consider the role of our biological make up and our social environment in influencing why we respond as we do to a wide variety of situations. Famous experiments and psychological theories will be studied in an attempt to discover why people develop as they do behaviorally.

7246 AP Psychology

Credits: 10
Prerequisites: None
Meets requirement(s): Elective
Open to Grades: 10, 11 & 12

The purpose of the AP course in Psychology is to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major sub fields within psychology. They also learn about the methods psychologists use in their science and practice.

7242 Sociology

Credits: 5
Prerequisites: None
Meets requirement(s): Elective
Open to Grades: 9, 10, 11 & 12

Sociology is the study of the groups and societies in which people live. In this introductory course, we examine and analyze how social structures and cultures are created, maintained, and most importantly, how they affect behavior. Students learn about such issues as culture, socialization, social inequality, race and ethnicity, family, deviance, and social change.

2781 History of Rock and Roll

Credits: 5
Prerequisites: None
Meets requirement(s): Elective
Open to Grades: 9, 10, 11 & 12

This course is a survey of the evolution of rock styles and contributions of important performers and musical techniques involved in the creation and performance of rock music. Students will be introduced to the history of rock and roll music as it evolved in the United States and spread throughout the world. In addition to the historical perspective class discussions will also focus on aesthetic and sociological issues that have influenced the various developments within the genre. **At FRHS: *This course will include an emphasis on collaborative research projects, multi-media presentations, guest speakers, and live performances.***



The following class is offered for concurrent enrollment: (For details regarding the application and testing process, see *FRCC College Now* page at the front of this guide)

7451 CEFRC Intro to Sociology



Credits: 5
Prerequisites: None
Meets requirement(s): Elective
Open to Grades 9, 10, 11 & 12

SOC 101 Introduction to Sociology I: Examines the basic concepts, theories, and principles of sociology as well as human culture, social groups, and the social issues of age, gender, class, and race. This is a guaranteed to transfer to all public colleges and universities in Colorado.

* See the [Schedule of Fees and Other Select Charges](#) for lab fees associated with this course

FRHS STEM ACADEMY OVERVIEW

<u>Grade Level</u>	<u>Courses</u>	<u>Activities/Experiences</u>
9th	Recommended: Principles of Engineering & Technology	❖ Students recommended by science and technology teachers and invited to join.
10th	STEM Academy Survey (5 credits)	<ul style="list-style-type: none"> ❖ Technical writing ❖ Computer Science (programming using Processing) ❖ Engineering (CAD, 3D printing, and Arduino) ❖ Biotechnology (micropipetting, PCR, gel electrophoresis) ❖ Capstone Project Proposal
Summer	Optional Internship opportunities	❖ Students are guided through the process of finding internships <u>(must opt in)</u>
11th	STEM Academy Seminar (10 credits)	<ul style="list-style-type: none"> ❖ Selected Capstone Proposals completed by groups of students ❖ Project development ❖ Documentation of activities ❖ Final presentation to STEM Advisory Board ❖ Personal Portfolio
	10 credits of Aligned Coursework	❖ See Aligned Coursework description below
Summer	Optional Internship opportunities	❖ Students are guided through the process of finding internships <u>(must opt in)</u>
12th	10 credits of Aligned Coursework	<ul style="list-style-type: none"> ❖ See Aligned Coursework description below ❖ Can request letter of recommendation ❖ Students use STEM experiences on college applications ❖ Recognized at graduation ❖ Can apply for state endorsed STEM diploma

Aligned Coursework

One of the benchmarks for recognition (see below) is to complete 20 credits of coursework that is aligned to the students area of concentration within STEM. There is a lot of flexibility with this and some **suggested** courses for each concentration are listed below. See the FRHS Course Guide for descriptions of each of these courses.

Computer Science	Engineering	Biotechnology
Computer Science Foundations A AP Computer Science Principles AP Computer Science A Game Design A/B Web Design – Web Authoring Web Design – Web Editing Tools	Principles of Engineering & Technology Robotics and Automation A/B FRCC Mechanical Design FRCC Solidworks Mechanical Aerospace Engineering AP Physics	Cell Biology, Genetics, & Biotechnology Botany, Microbiology, & Zoology Anatomy & Physiology AP Biology Chemistry/Advanced Chemistry AP Chemistry

Benchmarks for Graduation

In order to be recognized at graduation, students must complete the following benchmarks. These are all accomplished in the courses and experiences outlined in the STEM Academy Overview (see above).

1. Generate an idea for a capstone project
2. Write a technical proposal outlining the project
3. Complete a capstone project
4. Create an electronic portfolio that describes their experience
5. Complete 20 credits of aligned coursework in their area of concentration (see above)
6. OPTIONAL: Complete an internship experience and add it to the portfolio

State Endorsed Diploma

In addition to being recognized by FRHS, students may also earn a STEM endorsement on their diploma from the state of Colorado. The requirements are essentially the same as the benchmark with a few additions.

1. Students need to demonstrate proficiency in mathematics (28+ on ACT math, 600+ on SAT math, 4+ on AP Mathematics)
2. Student has an overall GPA of 3.0 or higher
3. Average GPA in aligned coursework is 3.5 or higher

9938 STEM Academy Survey

Credits: 5
Prerequisites: Teacher approval
Meets requirement(s): Elective
Open to Grades: 10

STEM Survey (Science, Technology, Engineering & Mathematics) will introduce students to various theoretical and real-life aspects of STEM content. Career overviews, 21st century skills required for success in STEM fields, technical writing, project design and implementation, and capstone project idea development will all be explored. Students will collaborate with mentors from the STEM community to enhance learning. This course is intended for students who may be interested in enrolling in the STEM Academy.

9946 STEM Academy Seminar

Credits: 10
Prerequisites: STEM Academy Survey
Meets requirement(s): Elective
Open to Grades: 11, 12

This course is designed to introduce and develop a student's necessary knowledge and skills that are required to complete a culminating STEM Capstone project. The project will focus on STEM (Science, Technology, Engineering, & Math) related topics and the student must demonstrate 21st century skills. A major component of the project involves community mentorship. The seminar course also allows for time to collaborate with community members, faculty and other students while developing their project and portfolio.



Fossil Ridge is proud to support its award-winning Art Department. FRHS strives to foster a creative atmosphere by building students' skills with solid foundational courses and offering a wide variety of studio courses, allowing students to find their creative voice while increasing independent student-led experiences. Please visit the FRHS website frh.psdschools.org or contact individual Art instructors with questions.

Philosophy and Course Progression

The Design Foundations of Art course is the prerequisite for all other art courses offered at Fossil Ridge, with the exception of Photography. **Students who wish to enroll in a studio class must take the Design class first.** At Fossil Ridge, it is our goal to provide students with a solid base for future success. While being based in the visual arts, it is a course that will lead students through a series of design-based problems in order to teach them the 21st Century skill of visual organization, and project-based learning. With strong visual communication skills, students will be prepared to recognize and understand the multitude of visual cues they encounter every day. They will be able to recognize and talk about the influences that visual art has upon our culture, society, and everyday lives. Finally, understanding how to organize visually will assist them in creating successful presentations in other courses. Our Design class is just the first step on a path to exploring the many opportunities we offer in Visual Art at Fossil Ridge.

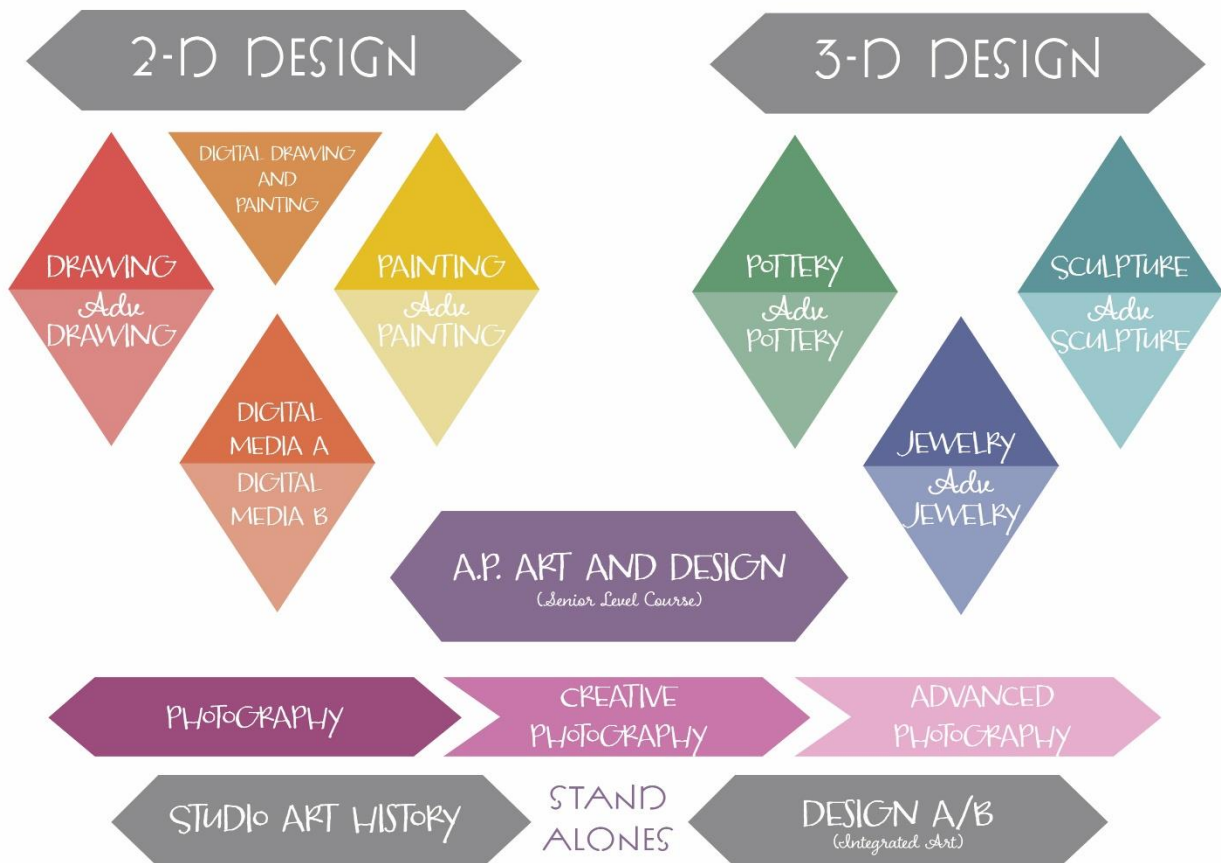
General Art Track	
Student Scenario	Course Recommendation
Traditional 2-D art	Choose 2D Design, then take Drawing or Painting
Interested in 3-D art	Choose 3D Design, then take Jewelry, Pottery, or Sculpture
Interested in photography	Choose Photo 1 (Note – 2D Design is NOT a prerequisite for Photo)
Interested in digital art	Choose Design Foundations, then Digital Media A/B or Digital Drawing and Painting
Interested in Studio Art History	Students can receive EITHER Humanities OR Fine & Applied Art credit

Advanced Placement Track

A.P. Art and Design students experience the rigor of a College Level course while still in high school. **OPEN TO SENIORS ONLY**, this 10 credit course culminates with students submitting a portfolio of 20 works to the College Board for evaluation. To prepare for the level of work expected, it is important that students start taking art courses as early as possible. It is recommended that students enroll in at least **THREE** courses **PRIOR** TO A.P. (Design + 2 levels of a studio class.) However, it is always best if students take as many different art courses as possible. Teacher recommendation is required.

Advanced Placement Track	
Student Scenario	Course Recommendation
Interested in AP Art & Design as a senior (10 credit course)	Choose 2 levels of a studio art class after taking 2D or 3D Design, and/or take multiple art courses in a variety of disciplines.
Interested in submitting a Drawing or 2D Design Portfolio (without Photography)	Choose 2 levels of any 2D Studio class, or any combination of 2D classes AFTER taking 2D Design.
Interested in submitting a 3D Design Portfolio	Choose 2 levels of any 3D studio class, or any combination of 3D classes, AFTER taking 3D Design. *It is highly encouraged that students also explore the Woods and Metals classes offered at FRHS to supplement their experience with 3D materials and processes. (See Tech Ed pathways for available courses.)
Interested in submitting a Photography-based 2D Design Portfolio	Choose Photo, then Creative or Advanced Photo. *Must also take 2D Design

VISUAL ARTS COURSE PROGRESSION



****Students who have taken Design Foundations prior to the 2022-2023 school year have met the prerequisite for all other studio classes and do NOT have to take 2D Design or 3D Design first.***

1211 Two Dimensional Design

Credits: 5
Prerequisites: None
Meets requirement(s): Fine & Applied Arts
Open to Grades: 9, 10, 11 & 12

This is one of the two prerequisites for all studio art courses. The course emphasizes the importance of a strong foundation in the Art Elements through the use of 2-dimensional art media. Emphasis is on finding creative solutions to visual problems. Students must successfully complete both 2-D Design and 3-D Design before continuing in any studio art course. Student supplies kit and/or fees required. **AT FRHS: *This course is a pre-requisite for the 2-Dimensional studio courses of Drawing, Painting, and Digital Design. While we encourage students to take both 2D and 3D Design courses, only 2D is required for moving on through the 2D Studio courses. Student Supplies, kit or fees are also required.*** *

1212 Three Dimensional Design

Credits: 5
Prerequisites: None
Meets requirement(s): Fine & Applied Arts
Open to Grades: 9, 10, 11 & 12

This is one of the two prerequisites for all studio art courses. The course emphasizes the importance of a strong foundation in the Art Elements through the use of 3-dimensional art media. Emphasis is on finding creative solutions to visual problems. Students must successfully complete both 2-D Design and 3-D Design before continuing in any studio art course. Student supplies kit and/or fees required. **AT FRHS: *This course is a pre-requisite for the 3-Dimensional studio courses of Pottery, Jewelry and Sculpture. While we encourage students to take both 2D and 3D Design courses, only 3D is required for moving on through the 3D Studio courses. Student Supplies, kit or fees are also required.*** *

1213 Design A

Credits: 5
Prerequisites: Two Dimensional Design or Three Dimensional Design
Meets requirement(s): Fine & Applied Arts
Open to Grades: 10, 11 & 12

This class will emphasize the elements of design with an introduction of principles and be involved primarily with two-dimensional art forms. This course is to provide the students with an introduction to all the upper level art courses. Design A and B are prerequisites for the upper level classes. **AT FRHS: *2D or 3D Design is the pre-requisite for Design A & B. All sophomores, juniors, and seniors who have taken 2D or 3D Design can take Design A & B. Design A & B is NOT the prerequisite for any other art classes at FRHS. This course combines an approximately equal number of students with disabilities and peers without disabilities. This is an integrated course for students with and without disabilities. Students will work in diverse peer groups in conjunction with paraprofessional aides, to complete modified artistic activities. Students are introduced to various media and art forms in this class.***

1214 Design B

Credits: 5
Prerequisites: Two Dimensional Design or Three Dimensional Design
Meets requirement(s): Fine & Applied Arts
Open to Grades: 10, 11 & 12

The students will learn the elements and principles of design as they apply to his/her personal expression through skills techniques and applied uses. Design is the basic foundation upon which other art classes are built and is a requirement before taking specialized art classes. The students may explore painting, drawing, lettering, fiber art, pottery and a sampling of other art classes offered. Art history critique and aesthetics are utilized through the use of examples and audio-visual materials. **AT FRHS: 2D or 3D Design is the pre-requisite for Design A & B. All sophomores, juniors, and seniors who have taken 2D or 3D Design can take Design A & B. Design A & B is NOT the prerequisite for any other art classes at FRHS. This course combines an approximately equal number of students with disabilities and peers without disabilities. This is an integrated course for students with and without disabilities. Students will work in diverse peer groups in conjunction with paraprofessional aides, to complete modified artistic activities. Students are introduced to various media and art forms in this class.**

1340 Studio Art History

Credits: 5
Prerequisites: None
Meets requirement(s): Humanities / Fine & Applied Arts
Open to Grades: 10, 11 & 12

Studio Art History is designed for the hands-on student who would like to explore history and culture through an arts-based lens. It allows students to earn Humanities credit or Fine & Applied Arts credit toward graduation requirements. While the main focus will be on the contributions and the evolution of art throughout history, students will also dig into the cultures as a whole. We will analyze how geography, literature and human advancement have reflected and influenced society across time. Studio projects will relate directly to the art forms being studied from the time period explored. General studio work will include drawing, painting and sculpture. **At FRHS: There is a student fee for this course. ***

1240 Drawing

Credits: 5
Prerequisites: 2D Design
Meets requirement(s): Fine & Applied Arts
Open to Grades: 9, 10, 11 & 12

This course will provide an opportunity for students to improve their own drawing skills in contour, gesture, and creation of value while encouraging them to think and express themselves creatively. Students will explore the use of a wide variety of techniques and media such as pencil, conte, charcoal, color pencils, marker, pen and ink, and pastels. Drawing is recommended before taking other art classes. **At FRHS: Student supplies, kit and/or fees required. ***

1225 Digital Drawing & Painting

Credits: 5
Prerequisites: Drawing
Meets requirement(s): Fine & Applied Arts
Open to Grades: 10, 11 & 12

Explore the sweet- spot where traditional art and new technologies meet. Students will use digital drawing tablets in combination with powerful digital art software to create original artwork. **At FRHS: Student supplies, kit and/or fees required. ***

1241 Advanced Drawing

Credits: 5
Prerequisites: Drawing
Meets requirement(s): Fine & Applied Arts
Open to Grades: 10, 11 & 12

This advanced course is a continuation of the drawing course and is designed for the serious artist who would like to continue to improve his or her drawing abilities. Students will be encouraged to use their drawing skills to express themselves in a visually creative manner. **At FRHS: *Student supplies, kit and/or fees required.* ***

1280 Painting

Credits: 5
Prerequisites: 2D Design
Meets requirement(s): Fine & Applied Arts
Open to Grades: 9, 10, 11 & 12

This course covers the basic materials, methods, and techniques of painting. The students will learn to work with watercolor, and acrylic. Emphasis will be on understanding color relationships, creative expression, and recognizing the impact of our artistic heritage. **DRAWING IS STRONGLY RECOMMENDED BEFORE TAKING THIS COURSE. At FRHS: *Student supplies, kit and/or fees required.* ***

1281 Advanced Painting

Credits: 5
Prerequisites: Painting, Teacher approval
Meets requirement(s): Fine & Applied Arts
Open to Grades: 10, 11 & 12

This advanced course is a continuation of the painting course and is designed for the serious artist who would like to continue to improve his or her painting abilities. **At FRHS: *Student supplies, kit and/or fees required.* ***

1320 Pottery

Credits: 5
Prerequisites: 3D Design
Meets requirement(s): Fine & Applied Arts
Open to Grades: 9, 10, 11 & 12

This course offers the student the opportunity of exploring various methods and techniques utilized in pottery construction. The student will learn the techniques of hand building and throwing on the potter's wheel. **At FRHS: *Student supplies, kit and/or fees required.* ***

1322 Advanced Pottery

Credits: 5
Prerequisites: Pottery
Meets requirement(s): Fine & Applied Arts
Open to Grades: 10, 11 & 12

This course is a continuation of Pottery. The student will design and construct advanced pottery pieces and will explore various techniques associated with pottery. The student may also explore using multimedia approaches to pottery. **At FRHS: *Student supplies, kit and/or fees required.* ***

1330 Sculpture

Credits: 5
Prerequisites: 3D Design
Meets requirement(s): Fine & Applied Arts
Open to Grades: 9, 10, 11 & 12

The student will explore the third dimension by working with a variety of materials in order to translate 3-dimensional designs into 3-dimensional sculptural pieces. Students may work with a variety of sculptural materials including clay, wire, metal, plaster, found objects, and paper. **At FRHS: *Student supplies, kit and/or fees required.* ***

1331 Advanced Sculpture

Credits: 5
Prerequisites: Sculpture
Meets requirement(s): Fine & Applied Arts
Open to Grades: 10, 11 & 12

This course is a continuation of sculpture. The students will continue to explore various materials used in sculpture and to learn advanced techniques. The student may also work on experimental concepts of design, materials, and techniques as well as the multi-media approach. **At FRHS: *Student supplies, kit and/or fees required.* ***

1605 Digital Media A

Credits: 5
Prerequisites: 2D Design
Meets requirement(s): Fine & Applied Arts
Open to Grades: 9, 10, 11 & 12

In Digital Media, students will analyze and assess current and emerging technologies, while designing and creating multimedia projects that address customer needs and resolve a problem. Students will implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. The knowledge and skills acquired and practiced will enable students to successfully perform and interact in a technology-driven society. Students will enhance reading, writing, computing, communication, and critical thinking and apply them to the IT environment. **At FRHS: *We focus on the above skills through an artistic lens, creating artworks and illustrations with a large audience in mind. We will use the programs Adobe Illustrator, Photoshop and InDesign. Student supplies, kit and/or fees required.***

1530 Digital Media B

Credits: 5
Prerequisites: Digital Media A
Meets requirement(s): Fine & Applied Arts
Open to Grades: 10, 11 & 12

In Digital Media, students will analyze and assess current and emerging technologies, while designing and creating multimedia projects that address customer needs and resolve a problem. Students will implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. The knowledge and skills acquired and practiced will enable students to successfully perform and interact in a technology-driven society. Students will enhance reading, writing, computing, communication, and critical thinking and apply them to the IT environment. **At FRHS: *We will continue to expand on the skills and ideas learned in Digital Media A. Students will move toward a more independent exploration of the tools available in the programs. Students will continue to work in Adobe Illustrator, Photoshop and InDesign. Student supplies, kit and/or fees required.***

1270 Jewelry

Credits: 5
Prerequisites: 3D Design
Meets requirement(s): Fine & Applied Arts
Open to Grades: 9, 10, 11 & 12

The students will observe and interpret metals and nonmetals through experimentation. Planning of designs, utilizing the skills of sawing, forging cold connections, soldering, casting, surface enrichment and other beginning jewelry techniques may be explored. The history and aesthetics of jewelry will be studied. Wire metal (nickel, silver, brass, copper and sterling silver), wood, fibers and stone may be used. The process of casting is also introduced. Design and craftsmanship is emphasized. Drawing is strongly recommended before taking the course. **At FRHS: *Student supplies, kit and/or fees required.* ***

1271 Advanced Jewelry

Credits 5
Prerequisites: Jewelry
Meets requirement(s): Fine & Applied Art
Open to Grades: 10, 11 & 12

This course is a continuation of Jewelry. The students will continue to explore various media and advanced techniques in jewelry. **At FRHS: *Student supplies, kit and/or fees required.* ***

1300 Photography 1

Credits: 5
Prerequisites: None
Meets requirement(s): Fine & applied Arts
Open to Grades: 9, 10, 11 & 12

This is an introductory high school photography course. Students will study a variety of photographic methods including processing and printing their own photos. Emphasis will be on creativity and photography as a fine art medium. STUDENTS NEED TO FURNISH THEIR OWN 35 MM CAMERA. Photography 1 at the Middle School level does not take the place of this class or is not substitute. **At FRHS: *If students wish to take Film Photos outside of FRHS, they must furnish their own 35MM Camera. Student supplies, kit and/or fees required.* ***

1310 Creative Photography

Credits: 5
Prerequisites: High School Photography 1
Meets requirements: Fine & Applied Arts
Open to Grades: 9, 10, 11 & 12

This is an advanced photography course in which creativity and special techniques are emphasized. Students will have the opportunity to explore specific areas of personal interest. STUDENTS NEED TO FURNISH THEIR OWN 35 MM SLR AND DIGITAL CAMERAS. **At FRHS: *Students will explore digitally enhanced photography using programs such as Adobe Creative Suite as well as applying creative techniques to black and white film photography. Student fee is required.* ***

1311 Advanced Photography

Credits: 5
Prerequisites: Creative Photo and Teacher approval
Meets requirement(s): Fine & Applied Art
Open to Grades: 10, 11 & 12

Advanced Photo is a continuation of Photo 1 and/or Creative Photo. **At FRHS: *Advanced Photo may be taken after Photo 1. It is for the student who really wants to hone their technical skills. The Advanced Photo student will be encouraged to develop their own personal style and to plan their own areas of focus. Technical understanding of camera controls is required. Students need to furnish their own 35mm SLR camera. Student fee is required.* ***

1484 AP Art and Design

Credits: 10

Prerequisites: Students MUST have passed Design: Foundations of Art, two additional studio classes
AND obtain teacher approval

Meets requirement(s): Fine & Applied Arts

Open to Grades: 12

This class provides students the opportunity to work in a variety of art mediums in a studio environment to create a finalized portfolio to submit as part of the AP Studio Art test. The curriculum for this class includes instruction with various mediums, history, aesthetics and evaluation. AP Art and Design is designed for the serious art student wishing to pursue an art related field/education. ***At FRHS: Advanced Placement Art and Design offers serious art students the opportunity to experience the rigor and rewards of a college course while still in high school. Over the course of a year, students create a body of 24 original pieces of art (portfolio) that is submitted to the College Board as their Studio Art Exam. Students may choose from three Portfolio options that represent major areas of study: 2D Design, Drawing or 3D Design. This is a college level course with similar expectations: students should expect a minimum of THREE HOURS of work OUTSIDE of class each week, as well as gallery visits, and REQUIRED SUMMER ASSIGNMENTS. Students are responsible for purchasing needed supplies. (A supply list will be provided). All AP Art and Design courses require instructor approval before enrolling. Student supplies, kit and/or fees required. ****

* See the [Schedule of Fees and Other Select Charges](#) for lab fees associated with this course



Work-Based Learning

POUDRE SCHOOL DISTRICT

Work-Based Learning (WBL) has always been an integral component of quality Career and Technical Education (CTE) programs. High school students and educators can access work-based learning opportunities including internships, apprenticeships, and paid work experiences.

[Link to PSD Work – Based Learning](#)

Go Beyond the Classroom

Work-Based Learning

1774 Work-Based Learning: Seminar (PaCE)

Credits: Variable credit up to 45 credits
Prerequisites: Complete the Work-Based Learning Agreement and working prior to start of class
Meets requirement(s): Elective
Open to Grades: 10, 11, and 12

Work-based Learning (WBL) Seminar replaces PaCE 1 and PaCE 2. The program offers high school students the opportunity to develop skills necessary to be successful in a paid, unpaid or volunteer experience. This course will help students build and enhance their workforce ready skills which include communication, problem-solving, collaboration, interpersonal, self-management, and organizational skills. Students may select the level of involvement based on the time they wish to commit their school schedule and their desire for a paid or unpaid experience. Students receive 1 credit for every 15 hours of work/volunteer experience with a maximum of 5 credits per quarter and a maximum of 45 overall credits. Summer opportunities are available. **At FRHS: Students who enroll in WBL must have a job and complete the Work-Based Learning Agreement prior to being enrolled in the class. See Ms. Thiebaut in the WBL office.**

PSD Work-Based Learning Courses

(Internships/Apprenticeships/Paid Work Experience):

Credits: Variable credit up to 45 credits
Prerequisites: WBL Coordinator approval (Ms. Thiebaut)
Meets requirement(s): Elective
Open to Grades: 9, 10, 11 and 12

Work-Based Learning (WBL) programs offer eligible students an opportunity to earn high school credit and gain experience in a chosen pathway, profession, or industry. Students are eligible to enroll in a WBL course for an experience (internship, apprenticeship, paid relevant work experience) that is longer than 30 hours in length and earn variable elective credit (15 hours = 1 credit with a maximum of 5 credits per quarter). This course will support students as they develop professional workplace skills. Placements are based on availability (current opportunities are posted on Xello) and/or students chosen through an interview process. Students must meet the requirements of the WBL experience.

Work-Based Learning (WBL) Courses available based on CTE pathway are:

FRHS Work-Based Learning



Go Beyond the Classroom

FRHS Work-Based Learning Course Titles:

Work-Based Learning: Seminar (#1774 PaCE)

Work-Based Learning: Business (#1779)

Work-Based Learning: Computer Science (#6333)

Work-Based Learning: Construction (#2213)

Work-Based Learning: Engineering (#2214)

Work-Based Learning: Manufacturing (#2294)

Work-Based Learning: Culinary and Hospitality (#9220)

Work-Based Learning: Education (#4034)

Work-Based Learning: Interior/Fashion Design (#1391)

Work-Based Learning: Healthcare (#3074)

Work-Based Learning: Design & Multimedia Arts (#1392)

Work-Based Learning (WBL) has always been an integral component of quality Career and Technical Education (CTE) programs. High school students can access work-based learning opportunities including internships, apprenticeships, and paid work.

For more information contact: Terra Thiebaut, WBL Coordinator tthiebaut@psdschools.org

Alternative Cooperative Education (ACE)

Alternative Cooperative Education (ACE) Career & Technical Education (CTE) provides individualized, developmentally appropriate programming to encourage multi-occupational pathways to successfully support students as they transition from school to work.

ACE provides work-based learning experiences, classroom instruction, and transition planning for students who may have difficulty obtaining paid work. Students learn and practice job skills while operating Cup of Joe coffee shop for students and staff as well as Taste Buds Bistro for staff at Fossil Ridge High School.

After successful participation in on-campus ACE coursework, students may participate in off-site work experiences and internships in our community.

Students can sign up to be peer helpers in Cup of Joe or Taste Buds to support ACE students as they learn and practice job skills. ACE peer helpers requires teacher approval.

For more information contact Cristi Thomas, ACE Coordinator at cthomas@psdschools.org



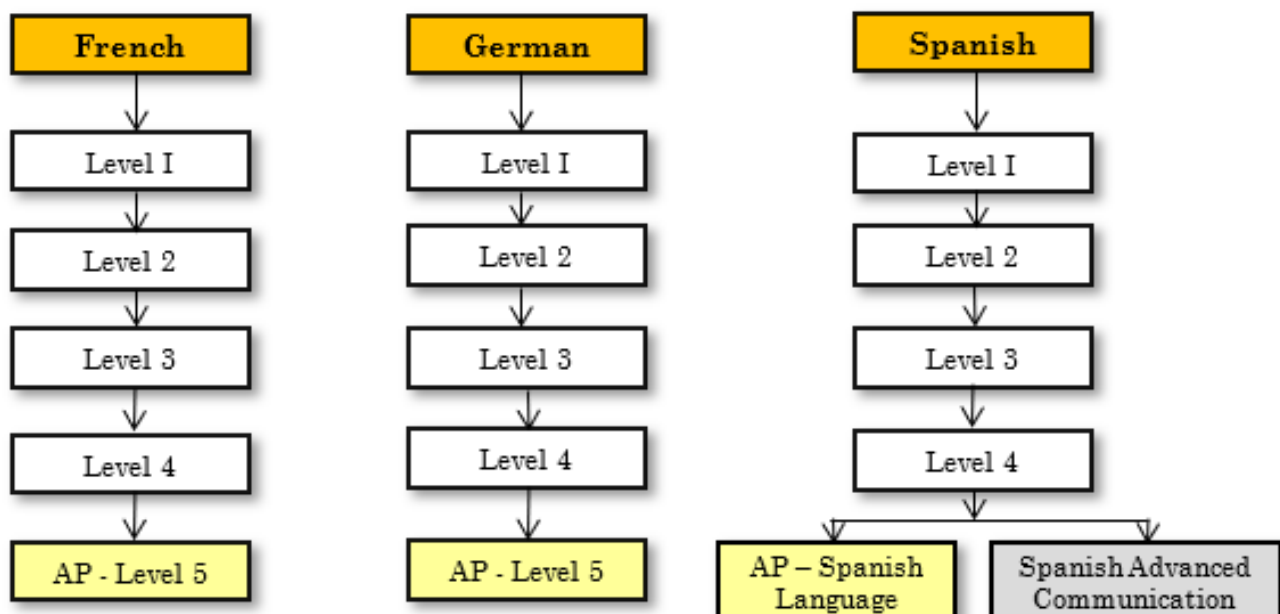
World Language

Philosophy

The primary objectives of the World Language Program are to achieve acceptable levels of communicative skills in each target language and a cultural awareness of the places in the world and the native speakers of each language. These two areas address the mission statement of FRHS. They prepare students for scholastic and career endeavors, and also promote understanding and tolerance of other cultures. Studies have shown that language students perform better on SATs and other standardized tests than non-foreign language students. The advantages and benefits of studying a foreign language also include the broadening of the student's knowledge of the world, improving grammar skills in both English and the second language, enhancing career opportunities in business, the military, medicine, law, the arts, history, science, social work, and many other fields. The World Language Department is committed to using all available technology such as the language laboratory, video, radio and television broadcasts, computer programs, and the Internet to help meet these goals by introducing language in an authentic cultural context. Language classes are predominantly conducted in the target language. In all language courses, the culture, history, geography, and major personalities of the native country are recurrent themes.

All language courses are taken in sequence, run for 18 weeks, and are worth 5 credits per quarter. All language courses are college preparatory. It is recommended that only students who maintain a "C" average in Levels 1, 2, and 3 go on to the next level. Students who maintain a "B" average in Level 3 are encouraged to continue their language studies into Level 4 and ultimately into a Level 5 AP language course.

Second World Language



The Fossil Ridge High School World Language Department is implementing competency standards set forth by the American Council on the Teaching of Foreign Language (ACTFL). It provides a detailed description of the kinds of communication functions, range of vocabulary, degree of accuracy and flexibility that learners of a language are able to control at different levels in each of the four major language skills (listening, speaking, reading and writing). These descriptions can be helpful in setting language learning goals, in planning learning activities and in evaluating proficiency. To be successful in language classes, students must practice the classroom materials OUTSIDE of class time. Learning a language requires repetitive practice of the introduced classroom material. ***A typical student should spend approximately 2-4 additional hours per week reviewing vocabulary and grammar, as well as completing the homework materials. Students who only complete the homework but do not practice the vocabulary and grammar may find it difficult to achieve excellence for the class.***

World Language Course Options

4710 French Level 1

4720 German Level 1

4730 Spanish Level 1

Credits: 10
Prerequisites: None
Meets requirement(s): Arts & World Language

Students are introduced to vocabulary and structures. Activities include dialogues, novice readings, listening selections, and written communication. Students experience language through the study of cultures, while making connections and comparisons to their native language and developing communication skills in the target language. The study of a world language prepares students to compete in a global community!

At FRHS: Upon successful completion of this course, students will have achieved the ACTFL standard of: Level 1 - Novice Low - Students will be able to communicate and present about familiar topics, identify common practices and products within the target cultures, make connections with other disciplines and students' own culture. Class activities include conversations, reading short selections and written exercises.

4750 French Level 2

4760 German Level 2

4770 Spanish Level 2

Credits: 10
Prerequisites: Level 1 with grade of 'C' or better and/or Level 1 Teacher approval
Meets requirement(s): Arts & World Language

Students increase vocabulary and structures. Activities include dialogues, novice readings, listening selections, and written communication. Students experience language through the study of cultures, while making connections and comparisons to their native language and developing communication skills in the target language. The study of a world language prepares students to compete in a global community!

At FRHS: Upon successful completion of this course, students will have achieved the ACTFL standard of: Level 2 Novice Mid—Ability to participate in basic conversations and present using learned and simple phrases, describe familiar practices and products, organize information acquired from authentic resources, and compare similarities and differences of basic structural patterns of one's own language. Continued emphasis placed on the improvement of proficiency in speaking, listening, reading and writing.

4790 French Level 3

4800 German Level 3

4810 Spanish Level 3

Credits: 10

Prerequisites: Level 2 with grade of 'C' or better and/or Level 2 Teacher approval

Meets requirement(s): Arts & World Language

Students enhance vocabulary and expand structures. Activities include conversations, authentic readings, intermediate listening selections, and written communication. Students experience language through the study of cultures, while making connections and comparisons to their native language and developing communication skills in the target language. The study of a world language prepares students to compete in a global community!

At FRHS: Upon successful completion of this course, students will have achieved the ACTFL standard of: Level 3 Novice High—Ability to participate in a variety of exchanges on familiar topics using high-frequency vocabulary and learned grammatical structures, examine common practices and products within the cultures studied, and examine information acquired from authentic resources.

4820 French Level 4

4820CEFR French Level 4



4830 German Level 4

4840 Spanish Level 4

Credits: 10

Prerequisites: Level 3 with grade of 'C' or better and/or Level 3 Teacher approval

Meets requirement(s): Arts & World Language

Students expand vocabulary and refine structures. Activities include conversations, authentic readings, advanced listening selections, and written communication. Students experience language through the study of cultures, while making connections and comparisons to their native language and developing communication skills in the target language. The study of a world language prepares students to compete in a global community!

At FRHS: Upon successful completion of this course, students will have achieved the ACTFL standard of: Level 4 Intermediate Low—Ability to initiate, sustain and conclude conversations on a variety of familiar and learned topics, draw conclusions and examine perspectives, and recognize similarities in own language.

4850 AP French Level 5

4860 AP German Level 5

4871 AP Spanish Level 5

Credits: 10

Prerequisites: Level 4 with grade of 'C' or better and/or Level 4 Teacher approval

Meets requirement(s): Arts & World Language

Students solidify vocabulary and apply structures as independent learners in preparation for the AP exam. Activities include conversations, authentic readings, advanced listening selections, and written communication. Students experience language through the study of cultures, while making connections and comparisons to their native language and developing communication skills in the target language. The study of a world language prepares students to compete in a global community!

At FRHS: Upon successful completion of this course, students will have achieved the ACTFL standard of: Level 5 Intermediate Mid—Ability to present in a variety of situations on familiar and unfamiliar vocabulary and learned grammatical structures, analyze perspectives and products, as well as similarities and differences between one's own language and target language being studied.

4888 Spanish Advanced Communication

** Intended for high school students in a combined class of native and second language Spanish speakers.*

Credits: 10














Prerequisites: Level 4 or Teacher approval

Meets requirement(s): Arts & World Language









Advanced Spanish Communication gives students with developed language skills the opportunity to maintain improve and refine their Spanish communication skills through literature current events film community service and other interactive activities. The entire course will be conducted in Spanish. Students are expected to fully participate in all disciplines of the course in Spanish. Students in this course address the World Language standards of communication culture connections comparisons and communities.

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