



Fossil Ridge High School



2015-2016
Course Guide



January 2015

Students and Parents
Fossil Ridge High School

Dear Students and Parents,

Welcome to Fossil Ridge! Since our opening in 2004, we have grown and increased our course offerings. We provide this Course Registration Catalogue as a simple, easy way for students to select their courses for the 2015-2016 school year. This catalogue contains important information about graduation requirements, courses that meet those requirements, recommended class sequences in core academic areas, recommended course selections for each grade level, courses listed by discipline, and course descriptions. As you and your student engage in the selection and registration process, remember to keep in mind three things: first, where you have been – the courses you have already taken; second, where you are going – your plan for the coming year; and third, your “big picture” plan to complete your high school requirements and where you will go after high school. There are pages in the catalogue to help you through the process. The entire purpose of this catalogue is to make the registration process simple and relevant for both you and your student.

All of us here at the Ridge are very pleased you are part of our school. Fossil Ridge is truly a special place because of our wonderful students and the support of their parents. Please let us know when and how we can be of service, at any time and for any reason.

Sincerely,

FRHS Administration



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FOSSIL RIDGE HIGH SCHOOL



Staff Contact Information

Fossil Ridge High School Main Number: 970-488-6260 Fax: 970-488-6263

See the FRHS website frh.psdschools.org for teacher and other contact information.

Fossil Ridge Staff communication standard:

The professional standard for FRHS staff members is to respond to calls and emails within a maximum of two school days. Please allow this time before sending additional emails or calls to assure the most coordinated and rapid response. Thank you for your consideration.

Enrollment

<i>Position</i>	<i>Name</i>	<i>Location</i>	<i>Phone</i>	<i>Email</i>
Registrar	Sandi Emanuel	Commons	488-6265	semanuel@psdschools.org

Counselors

<i>Grade & Alphabet</i>	<i>Name</i>	<i>Location</i>	<i>Phone</i>	<i>Email</i>
Counseling Secretary	Kim Visee	West Wing	488-6353	kvisee@psdschools.org
9 th A – K & select IEP	Nick Peterson	North Wing	488-6272	npeterso@psdschools.org
9 th L – Z & select IEP/Accommodations	Nicole Alvarado	North Wing	488-6271	nalvarad@psdschools.org
10 th – 12 th A – C	Melissa Vasa	West Wing	488-6345	mediaz@psdschools.org
10 th – 12 th D – Ho	Matt Murphy	West Wing	488-6338	mmurphy@psdschools.org
10 th – 12 th Hs – Me	Kelli McPhee	West Wing	488-6365	kmcphee@psdschools.org
10 th – 12 th Mi – Sc	Jennifer Smela	West Wing	488-6431	jsmela@psdschools.org
10 th – 12 th Se–Z and Gifted & Talented	Holly Minor	West Wing	488-6264	hminor@psdschools.org
College, Career, FRCC	Diane Campbell	Career Center	488-6332	dcampbel@psdschools.org
AP Test Accommodations/504	Brittany Hutson	West Wing	488-6330	bhutson@psdschools.org

Multi Tiered Student Support (MTSS)

<i>Position</i>	<i>Name</i>	<i>Location</i>	<i>Phone</i>	<i>Email</i>
MTSS Coordinator	Cheryl Ingham	East Wing	488-6348	cingham@psdschools.org

Administrators

<i>Position</i>	<i>Name</i>	<i>Location</i>	<i>Phone</i>	<i>Secretary</i>	<i>Phone</i>	<i>Email</i>
Principal	Will Allen	Main Office	488-6261	Kathy Petsovich	488-6262	willa@psdschools.org
Assistant Principal Athletic Director	Ken Denning	Main Office	488-6308	Val Valdez	488-6268	kdenning@psdschools.org
Assistant Principal	Scott Torvik	East Wing	488-6267	Deb Alexander	488-6444	storvik@psdschools.org
Assistant Principal Activities Director	Brad Nye	North Wing	488-6401	Gillian Tremble	488-6367	bnye@psdschools.org
Assistant Principal	Julie Edler	Main Office	488-6269	Darlene Price	488-6447	jedler@psdschools.org
Dean of Students	Mark Barry	East Wing	488-6387	Kim Williams	488-6358	mbarry@psdschools.org
Dean of Students	Tara Oswald	West Wing	488-6376	Kim Williams	488-6358	toswald@psdschools.org

Poudre School District Graduation Requirements

Your Fossil Ridge transcript will show your status in meeting these requirements. To see lists of classes that meet each 2015+ graduation category, please see the “Classes by Graduation Requirement Category” index in this guide. Contact your FRHS counselor for any questions.

Class of 2015+

<i>Category</i>	<i>Required Credits</i>	<i>Typical Grade(s) Taken</i>	<i>Sample Selective College Minimum Admission Requirements</i>
Mathematics	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)	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 -11 th	
Wellness	12.5 (1 year*)	9 th -12 th	
Health Education	2.5 (1/2 year*)	10 th *Health class now counts for 2.5 “Health Education” and 2.5 “Elective”	
Electives	65 (6 ½ years)	9 th -12 th	
240 credits (total <u>minimum</u> 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. See the opposite page for sample college admission requirements.

Sample College Admissions Guidelines

These are general guidelines. Colleges consider all aspects of a student's high school. Please see your FRHS counselor for specific college information. Visit the Colorado Department of Higher Education at <http://higherred.colorado.gov/Academics/Admissions/> for more general college admission information.

MEET S PSD GRAD REQS.	PSD GRADUATION REQUIREMENTS	EXAMPLE SCHOOLS	FRESHMEN PROFILE (CLASS OF 2018)			
			Index Score	Average GPA	Average ACT score	Average SAT score
✓ ✓ ✓ ✓	OPEN ADMISSIONS FEW REQUIREMENTS 3 years English 2 years Math 2 years Science 2 years Social Studies	CO. COMMUNITY/JUNIOR COLLEGES Front Range AIMS Colorado Mountain colleges Northeastern Junior College				
✓ ✓ ✓ ✓	LIBERAL ADMISSIONS May accept students of lower 50% of class 3 years English 2 years Math 2 years Science 2 years Social Studies	COLORADO SCHOOLS: Adams State University Metropolitan State University of Denver Western State Colorado University	80 76 80	3 2.96 2.8-3.6	21 20 19-24	-- 994 880-1110
✓ ✓ ✓ ✓ ✓	TRADITIONAL ADMISSIONS Top 50% of class 3-4 years English 2-3 years Math 2-3 years Science 2-3 years Social Studies 1 year Foreign Language (some)	COLORADO SCHOOLS: Colorado Mesa University Colorado State University - Pueblo Fort Lewis College University of Northern Colorado OUT OF STATE EXAMPLES: University of Wyoming Montana State University	92 86 92 94	3.4 3.1 3.2 3.03-3.77	22.7 20.6 22.5 20-25	1035 -- 1050 970-1160
✓ ✓ ✓ ✓	SELECTIVE ADMISSIONS Top 25% of class 4 years English 3-4 years Math 2-3 years Science 2-3 years Social Studies 2-3 years Foreign Language	COLORADO SCHOOLS: Colorado Christian University Colorado State University – Ft. Collins Regis University University of Colorado – CO. Springs University of Colorado - Denver OUT OF STATE EXAMPLES: Arizona State University Kansas University	n/a 101 n/a 92 93	3.6 3.57 3.1-3.8 3.36 3.3	24.2 24.8 22-27 23 23	1643 (out of 2400) 1143 1000-1180 1089 1060
✓	HIGHLY SELECTIVE ADMISSIONS Top 10% of class 4 years English 4 years Math 4 years Science 3-4 years Social Studies 3-4 years Foreign Language	COLORADO SCHOOLS: University of Colorado - Boulder University of Denver Colorado College Colorado School of Mines Air Force Academy OUT OF STATE EXAMPLES: Stanford University Harvard University	103 n/a n/a 110 n/a	3.31-3.97 3.69 -- 3.8 --	24-30 28 30-34 30 30	1100-1300 1232 1380 1325 1311

Each four-year Colorado institution has an index score requirement for admission of new and transfer students. For new applicants, the index score is calculated using a combination of a student's high school GPA or high score rank percentage combined with ACT or SAT score. **Note: Index Score is not the only requirement for admission!**

Example Multi-Year Plan

This multi-year plan demonstrates how the 2015+ PSD graduation requirements can be satisfied. Courses are displayed in the graduation categories they would satisfy in this scenario, as a transcript would show. (see FRHS counseling website for other examples)

PSD Graduation Requirements		9 th Grade		10 th Grade		11 th Grade		12 th Grade		Total Credits Earned
Category	Req. Credits	Class	Cr.	Class	Cr.	Class	Cr.	Class	Cr.	
<i>Mathematics</i>	30	Algebra 1	10	Geometry	10	Algebra 2	10 ✓	(applies to electives category)		30
<i>Language Arts</i>	40	English 9	10	World Literature	10	US Lit. & Composition	10	Modern Lit. & Persp.	10 ✓	40
<i>Science</i>	30	Biology	10	Earth Systems Science	10	Chemistry	10 ✓	(applies to electives category)		30
<i>Civics/Government</i>	5							American Gov.	5 ✓	5
<i>U.S. History</i>	10							U.S. History	10 ✓	10
<i>Social Studies</i>	10			World Geography	10 ✓					10
<i>World Language/Culture</i>	10	French 1	10 ✓	(applies to electives category)		(applies to electives category)				10
<i>Fine & Applied Arts</i>	10	Orchestra 9	10 ✓	(applies to electives category)		(applies to electives category)				10
<i>Economics</i>	5							Business Economics	5 ✓	5
<i>Personal Finance</i>	5							Personal Finance	5 ✓	5
<i>Humanities</i>	5									5
<i>Wellness</i>	12.5	PE 1	5					Aerobics	5	15
<i>Health Education</i>	2.5			Health & Wellness	2.5 ✓					2.5
<i>Electives</i>	65	World History Photo 1	10 5	(Health & Wellness) French 2 Symphony Orchestra Intro. to Business	2.5 10 10 5	French 3 Symphony Orchestra	10 10	Pre-Calculus AP Chemistry Symphony Orchestra Music Prod. & Tech.	10 10 10 10	108
		Advisory*	2	Advisory*	2	Advisory*	2	Advisory*	2	
TOTAL Minimum Required:	240 (see grad. req. pg.)		72		72		72		72	TOTAL: 288

SUMMER SCHOOL INFO
 In some cases, students choose PSD summer school classes to remediate or satisfy PSD graduation requirements.
 These classes are usually offered through PSD in traditional and online formats. Cost and registration information for PSD summer school is typically released every March. Students are encouraged to talk to their FRHS counselor for options.

- * = **Advisory**
Students do not register for Advisory class. Placement is automatic and a requirement for FRHS students for all 4 years. See the FRHS website for thorough information on our nationally recognized Advisory program.
- ✓ = **Graduation requirement category is satisfied**
For example, this student meets the 10 credits required in the “World Language & Culture” category by passing French 1 in 9th grade. Additional courses taken in the “World Language & Culture” category count toward the “Electives” category once the requirement is satisfied.

How elective credit works:
 Once a graduation category requirement is met, additional courses taken in that category are counted toward the “Electives” category.
 For example, PSD requires 30 credits in the “Science” category, once the 30 credits are satisfied in 11th grade, additional science classes count toward the “Electives” category.

Year	Class	Science cr.	Electives cr.
9 th	Biology	10	--
10 th	Earth Systems Science	10	--
11 th	Chemistry	10	--
12 th	AP Chemistry	--	10

Classes by Graduation Requirement Category

CIVICS/GOVERNMENT (5 credits)			
	7275 AP US Government	7275 AP US Government	
ECONOMICS (5 credits)			
7233 AP Micro Economics	7234 AP Micro Economics	1920 Business Economics	7230 Economics
FINE & APPLIED ARTS (5 credits)			
ART/PHOTOGRAPHY			
1292 Advanced Digital Design	1322 Advanced Pottery	1220 Digital Design	1320 Pottery
1241 Advanced Drawing	1331 Advanced Sculpture	1240 Drawing	1320 Pottery
1271 Advanced Jewelry	1484 AP Studio Art	1270 Jewelry	1290 Print Making
1281 Advanced Painting	1310 Creative Photography	1280 Painting	1330 Sculpture
1311 Advanced Photography	1210 Design Foundations of Art	1300 Photography 1	1340 Studio Art History
ENGINEERING SCIENCES & TECHNOLOGY			
2223 Architecture	2279 Engineering Exploration	2287 Metals 3 – Engineering Systems	2282 Woods 1 – Engineering Systems
2295 Engineering & Design Capstone	1751 Game Design & Development	2205 Robotics 1	2233 Woods 2 – Engineering Systems
2210 Engineering Drafting 1	1754 Game Design 2 – Mobile Applications	2206 Robotics 2	2237 Woods 3 – Engineering Systems
2210 Engineering Drafting 1 (women)	2283 Metals 1- Engineering Systems	1766 Web Design 1	
2221 3D Modeling – Engineering Drafting 2	2284 Metals 2 – Engineering Systems	1767CEFRCC Web Design 2	
FAMILY AND CONSUMER SCIENCE			
4441 Advanced Gourmet / Catering II	4391 Fashion Design 2	4440 Gourmet Foods / Catering I	4340 Interior Design 1
4390 Fashion Design 1			
MUSIC			
2770Y AP Music Theory	2512 Music Production & Technology 1	2830 Select Stage Band	2860 Symphony Orchestra
2800 Concert Band	2513 Music Production & Technology 2	2806 Select Symphonic Band	2795 Wind Ensemble
2865 Concert Orchestra	2692 Orchestra 9	2711 Select Women’s Choir	2750 Women’s Choir
2730FR Jazz Choir	2820 Pep Band	2840 Stage Band	
2760 Men’s Choir	2713 Select Mixed Choir	2805 Symphonic Band	
THEATER/MEDIA			
1373 Acting in Film	5227 Introduction to Acting	5239 Technical Theater Certification	5229 Theatre Foundations
5240 Advanced Acting and Production	5237 Musical Theatre Production	5290 Television Production 1	5231 Theater Practicum
HEALTH EDUCATION (2.5 credits)			
3072 Health			
HUMANITIES (5 credits)			
3740 American Humanities	1374 Film Studies: Intro to Film Analysis	3810 World Humanities Africa: Americas	3800 World Humanities Asia
3770 Classical Humanities	2985 Music Theory and Composition		

LANGUAGE ARTS (40 credits)			
5861 AP Language & Composition	9330CEFRCC Introduction to Literature 1	5275 21 st Century Media/Technology	5291 Television Production 2
5860 AP Literature & Composition	5220 Creative Writing HS English	5526 Media Analysis and Composition	5292 Television Production 3
5900 Argumentation & Debate	5030Y English 9	5034Y Pre-AP English 9	5863 US Literature & Composition
5250 Basic Speech	1374 Film Studies: Intro to Film Analysis	5413 Pre-AP World Literature & Composition	5412 World Literature & Composition
5440 British Literature & Composition	5910 Forensics	5430SB Modern Literary Perspectives	5740 Writing for Literary Publication
9325CEFRCC English Composition 1	5270 FR Journalism 1	5530 Short Fiction	
9324CEFRCC English Composition 2	5280 Journalism 2	5271 Technical Reading and Writing	
MATHMATICS (30 credits)			
6230 Algebra 1	6290S AP Calculus AB		6146 Data Analysis & Probability
6250 Algebra 2	6291S AP Calculus BC		6246 Discrete Mathematics
6290 AP Calculus AB	6295 AP Statistics	6275 College Algebra	6240 Geometry
6291 AP Calculus BC	6297 Calculus 3	6276 College Trigonometry & Analytic Geometry	6280 Pre-Calculus
PERSONAL FINANCE (5 credits)			
	1930 Finance	4210 Financial and Life Management	
SCIENCE (30 credits)			
6804 Advanced Chemistry	6822 AP Physics 1	6748 Biotechnology	6770 Environmental Science
6830 Anatomy and Physiology	6823 AP Physics 2	6840 Botany and Microbiology	6709 Pre-AP Biology
6760 AP Biology	6826 AP Physics C	6850 Cell Biology & Genetics	6860 Zoology
6800 AP Chemistry	6881 Astronomy	6790 Chemistry	
6774 AP Environmental Science	6710 Biology	6809 Earth Systems Science	
SOCIAL STUDIES (10 credits)			
7227 AP Human Geography	7253 AP Modern European History	7210 World Geography and Culture	7243 AP World History
U.S. HISTORY (10 credits)			
	7225 AP U.S. History	7220 U.S. History	
WELLNESS (12.5 credits)			
3600 Adventure Physical Education	3066 Athletic Weights & Conditioning (Co-ed Fall)	3010 Beginning Weight Training	2810 Marching Band*
3067 Aerobics	3066F Athletic Weights & Conditioning (female-fall)	4410 Foods, Nutrition and Wellness	3204 Physical Education 1
3012 Advanced Weight Training	3068F Athletic Weights & Conditioning (female-spring)	3590 Integrated Physical Education	3077 Team Sports
3068 Athletic Weights & Conditioning (Co-ed Spring)	3044 Beginning Dance		
WORLD LANGUAGE/CULTURE (10 credits)			
4872 AP French 5	4750 French Level 2	4760 German Level 2	4730 Spanish Level 1
4860 AP German 5	4790 French Level 3	4800 German Level 3	4770 Spanish Level 2
4871 AP Spanish 5	4820CEFRCC French Level 3 (FRCC High School Select)	4830 German Level 4 (CU Succeed)	4810 Spanish Level 3
4872 AP Spanish Literature	4820 French Level 4	7226 Pre AP World History	4840 Spanish Level 4
4710 French Level 1	4720 German Level 1	4886 Spanish Communication Literacy	7250 World History

ELECTIVES * (65 credits)

1830 Accounting 1	1851 Introduction to Business
1831CEFRCC Fundamentals of Accounting	6320 Introduction to Computer Science
1790 Advanced Marketing	9451 CEFRCC Introduction to Sociology
9950 Advisory	1760 Marketing
8107 Ambassadors	1763CEFRCC Marketing Leadership
7260 Anthropology	1782 PaCE 1
6329 AP Computer Science A	1781 PaCE 2
7246 AP Psychology	8140 Peer Helper
5071 Best Buddies Drama	7240 Psychology
1910 Business Law	7242 Sociology
1763B Business Leadership Capstone	7290 Sociology of Relationships
4310 Child Development	1758 Sports and Entertainment Marketing
1750 Computer Applications	8104 Student Council
8157 Diversity Leadership	4023 Teacher Cadet
1771 Entrepreneurship Capstone	5130 Yearbook Production
4450 Family & Community Leadership	

****Once a student has met the credit requirements of a graduation category, additional courses taken in that category will count in the “Electives” category. For example, if a student takes Symphonic Band for 10 “Fine & Applied Arts” credits as a 9th grader, then takes Wind Symphony for 10 credits in 10th grade, those 10 credits from Wind Symphony will automatically apply to the “Elective” category rather than “Fine & Applied Arts”.***

Advanced Placement

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 34 courses at 16,000 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.

What about 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 COURSES OFFERED AT FOSSIL RIDGE HIGH SCHOOL

Fine Arts	Language Arts	Mathematics	Science
AP Music Theory	AP Language & Composition	AP Calculus AB	AP Biology
AP Studio Art	AP Literature & Composition	AP Calculus BC	AP Chemistry
		AP Statistics	AP Environmental Science
			AP Physics 1
			AP Physics 2
			AP Physics C
Social Studies	Engineering Sciences & Technology	World Language	
AP Economics	AP Computer Science A	AP French	
AP European History		AP German	
AP US Government		AP Spanish Language	
AP Human Geography		AP Spanish Literature	
AP Psychology			
AP US History			
AP World History			

Advanced Placement

AP Endorsed Diploma

Beginning with the class of 2011-12, Fossil Ridge High School will offer 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) yearlong Advanced Placement courses. Two semester AP courses may be combined to make a yearlong course. The courses must be completed within three (3) distinct academic disciplinary areas with a grade of B or higher, and they must take the national examination for each course. 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 is below:

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	
Bonus points earned	.07	+ .07
GPA after bonus points are applied	3.93	

Concurrent Enrollment

Poudre School District has an exciting partnership with our local colleges (Front Range Community College Colorado State University and AIMS Community College) that allows eligible students to take college courses while still in high school. It is designed to increase the number of high school students earning college credit.

**** NOTE** CSU only offers World Language courses through CSU Ready.**

Qualifications

To qualify for the program a student must:

- be under 21 years of age and enrolled in any Poudre School District School
- be a 9-12 grade student in high school
- have Accuplacer or ACT scores appropriate for the approved class
- have parent or guardian and high school counselor signatures and approval.
- have not met PSD graduation requirements
- apply for courses not available on PSD campuses
- have applied for and received the College Opportunity Fund

Enrollment and Registration Procedures

All students who would like to enroll in Front Range Community College High School Select Courses must complete three steps **PRIOR TO MARCH 2ND**. Students who do not complete each step by the deadline **WILL NOT BE ABLE TO ENROLL IN THE COURSE**.

- **Step 1:** Pick up High School Select packet in the College & Career Center
- **Step 2:** Complete the Front Range Community College online enrollment application at: www.frontrange.edu before **February 4th and 5th**.
- **Step 3:** Complete Accuplacer testing at FRHS in the Roundhouse on
 - **February 4th from 7:30 a.m. – 9:30 a.m. and 2:15 p.m. – 4:30 p.m. Bring High School Select packet with you.**
 - OR**
 - **February 5th from 2:15 p.m. – 4:30 p.m.** (minimum scores must be met in certain content areas). **Bring High School Select packet with you.**
- **Step 4:** Bring your completed High School select packet to your registration appointment with your counselor.
- **Step 5:** Submit the High School Select packet to the College & Career Center. **This includes Agreement & Fee Payment Forms.**

Tuition and Fees

PSD will cover the current Community College Rate of tuition for approved courses at either FRCC or CSU. Students will be responsible for the cost of fees, books and any tuition above the Community College Rate of tuition for each course.

- PSD covers only the cost of approved college level courses. If a student chooses to take a developmental course, the student must pay for the course.
- Students will be responsible for transportation to and from their college classes.
- **If a student voluntarily drops a course without the consent of the high school principal or PSD, or if the student fails the course, the student or the student's parent or guardian shall reimburse the district for the amount of tuition and fees paid by the district.**

Concurrent Enrollment

High School Select – Concurrent Enrollment Options

See department listings for specific course information

CU Succeed

6290 AP Calculus AB

6291 AP Calculus BC

6290/6291 AP Calculus AB/BC double block

6275 College Algebra

4830 German Level 4

FRCC (Front Range Community College)

1831CEFRCC - Fundamentals of Accounting

Open to grades 9, 10, 11, & 12

1763CEFRCC – Marketing Leadership Capstone

Open to grades 11 & 12

1767CEFRCC – Web Design 2

Open to grades 9, 10, 11 & 12

9325CEFRCC English Composition 1

Open to grades 11 & 12

9324 CEFRCC English Composition 2

Open to grades 11 & 12

9330 CEFRCC Introduction to Literature 1

Open to grades 11 & 12

9789CEFRCC Introduction to Sociology

Open to grades 10, 11 & 12

4820CEFRCC French Level III

Open to grades 9, 10, 11 & 12



The College Now Department 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 and course prerequisites. Students may be responsible for the cost of textbooks, fees, and/or course materials.

FRCC College Now 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 College Now can help you get a jump start on your future!

Many FRCC courses are guaranteed to transfer to all public institutions of higher learning in Colorado. Visit www.frontrange.edu/guaranteedtransfer for more info about the Colorado guaranteed transfer program. All FRCC courses can apply toward FRCC certificate and degree programs. Visit www.frontrange.edu/Academics/College-Catalog/ for more info on certificates and degrees.

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

CAREER PATHWAYS PROGRAM, FALL 2015- SPRING 2016



Come to the FRCC campus to explore one of eight different career areas! Prepare yourself with the knowledge and skills employers are seeking!

- Take classes with high school students from the Poudre and Thompson School Districts.
- This program emphasizes hands-on learning (field trips, labs, projects, job shadows, community service, and/or internships) in addition to traditional classroom activities.
- Most programs are held on campus at FRCC (exceptions noted).
- Bus transportation is provided, but students are responsible for transportation when class is held off-site.
- Schedule: This is a year-long program. Classes are held every day, Monday – Friday. Counselors select the morning section (8am-10am) or afternoon section (12:30pm-2:30pm) based on your home high school schedule.
- A student participation fee is required in all programs.
- All programs offer *optional* college credit for students looking to continue into FRCC certificate and degree programs—check with your counselor for more information about enrollment requirements.
- Recommended preparation: 1) history of good attendance 2) history of turning in assignments 3) willingness to participate in all assignments and activities 4) willingness to seek help and communicate with faculty.

Animal Technology & Research

Do you love animals? Would you like to explore careers in veterinary medicine or other animal-related fields? During this program, students will learn fundamental skills in the handling and health care of common animal species, including dogs, cats, horses, cattle, and many more. Students will study the biology, anatomy, and physiology of different species and learn laboratory and clinical procedures to diagnose and treat common health problems. This program is made up of lecture, classroom activities, field trips, on- and off-campus lab experiences, guest speakers, research projects, job shadows and the opportunity to earn placement in an internship.

High School Credit:

All students earn elective high school credit for participation in this program. Check with your high school counselor for more information.

FRCC College Credit:

Students can earn *optional* FRCC college credit through our concurrent enrollment option. Check with your high school counselor for more information about enrollment requirements. All college courses apply towards the **FRCC Veterinary Technician Assistant Certificate**. Students who wish to complete the certificate and sit for the national exam must have completed BIO 105 (Science of Biology) or BIO 111 (General College Biology I with Lab) with a “C” or better prior to the beginning of the spring semester. See your counselor to complete the biology course requirement through our Campus Select or High School Select Program.

FRCC Course	Semester	Testing Requirements, Course Prerequisites	Total Credits
VET 120 - Office Procedures & Relations (2 credits)	Fall	None	Fall: 5 credits
VET 103 - Veterinary Assistant Restraint & Handling (2 credits)	Fall	None	
HPR 178 – Seminar: Medical Terminology (1 credit)	Fall	None	
VET 113 - Veterinary Assistant Surgical & Nursing Care (3 credits)	Spring	BIO 105 or BIO 111	Spring: 8 credits
VET 114 - Vet Assistant Lab & Clinical Procedures (3 credits)	Spring	BIO 105 or BIO 111	
VET 183 – Internship: Private Practice (2 credits)	Spring	BIO 105 or BIO 111	
			Total: 13 credits

Automotive Technology & Service

Do you like cars? Whether you want to become a professional automotive service technician or are just interested in how vehicles operate, this program is a great place for hands-on training in the automotive field! Topics explored include electrical, ignition, and fuel systems, engines, starting and charging, brakes, suspension and steering, tires, and transmissions. This program is made up of a mix of lecture, classroom activities, hands-on training in the automotive shop, mock-up units, and guest speaker, and field trips. Students spend one semester “under the car” and another semester “under the hood,” with a different instructor each semester.

High School Credit:

All students earn elective high school credit for participation in this program. Check with your counselor for more information.

FRCC College Credit:

Students can earn *optional* FRCC college credit through our concurrent enrollment option. Check with your counselor for more information about enrollment requirements. Students can complete the **FRCC General Automotive Repair & Maintenance Certificate** during this program. College courses also apply towards a variety of additional certificate and degree programs at FRCC.

Group 1:

FRCC Course	Semester	Testing Requirements, Course Prerequisites	Total Credits
ASE 101 – Auto Shop Orientation (2 credits)	Fall	Accuplace into CCR 092 and MAT 050 or higher	Fall: 6 credits
ASE 110 - Brakes I (2 credits)	Fall	Accuplace into CCR 092 and MAT 050 or higher; ASE 101 (or co-requisite)	
ASE 140 - Steering & Suspension (2)	Fall	Accuplace into CCR 092 and MAT 050 or higher; ASE 101 (or co-requisite)	
ASE 120 – Basic Auto Electricity (2)	Spring	Accuplace into CCR 092 and MAT 050 or higher; ASE 101 (or co-requisite)	Spring: 4 credits
ASE 130 - General Engine Diagnosis (2 credits)	Spring	Accuplace into CCR 092 and MAT 050 or higher; ASE 101 (or co-requisite)	
			Total: 10 credits

Group 2:

FRCC Course	Semester	Testing Requirements, Course Prerequisites	Total Credits
ASE 101 – Auto Shop Orientation (2 credits)	Fall	Accuplace into CCR 092 and MAT 050 or higher	Fall: 6 credits
ASE 120 – Basic Auto Electricity (2)	Fall	Accuplace into CCR 092 and MAT 050 or higher; ASE 101 (or co-requisite)	
ASE 130 - General Engine Diagnosis (2 credits)	Fall	Accuplace into CCR 092 and MAT 050 or higher; ASE 101 (or co-requisite)	
ASE 140 - Steering & Suspension (2)	Spring	Accuplace into CCR 092 and MAT 050 or higher; ASE 101 (or co-requisite)	Spring: 4 credits
ASE 110 - Brakes I (2 credits)	Spring	Accuplace into CCR 092 and MAT 050 or higher; ASE 101 (or co-requisite)	
			Total: 10 credits

Criminal Justice Careers Exploration

Are you interested in learning more about the criminal justice system? In this program, students explore careers in the criminal justice field and learn about the roles of various criminal justice agencies, police procedures, crime-scene investigation, criminal law and the courts, the correctional system, communication skills, and more. Students interact with a wide variety of professional guest speakers, visit field trip sites, and participate in community service, in addition to traditional classroom activities.

High School Credit:

All students earn elective high school credit for participation in this program. Check with your counselor for more information.

FRCC College Credit:

Students can earn *optional* FRCC college credit through our concurrent enrollment option. Check with your counselor for more information about enrollment requirements. All college courses apply towards the **FRCC Associate of Arts (A.A.) Degree for Transfer, Designation in Criminal Justice.**

FRCC Course	Semester	Testing Requirements, Course Prerequisites	Total Credits
CRJ 110-Intro to Criminal Justice (3 credits)	Fall	None	Fall: 3 credits
CRJ 125-Policing Systems (3 credits)	Spring	None	Spring: 6 credits
CRJ 127-Crime Scene Investigation (3 credits)	Spring	None	
			Total: 9 credits

Culinary Arts

Do you love to cook? This program is designed for students interested in exploring the art and science of cooking. Students learn about careers in the food service industry, practice food safety and sanitation, plan and prepare meals, explore culinary techniques, try different cuisines, practice food presentation, and work in a professional kitchen. Students work together to execute their own dishes! This program is made up of lecture, demonstration, practice in the student kitchen, field trips, a student banquet, and the opportunity to earn placement in an internship. Students sit for the national ServSafe® Food Handler certification exam during the program. ***This program is held at Fossil Ridge High School.***

High School Credit:

All students earn elective high school credit for participation in this program. Check with your counselor for more information.

FRCC College Credit:

Students can earn *optional* FRCC college credit through our concurrent enrollment option. Check with your counselor for more information about enrollment requirements. College courses apply towards the **FRCC Hospitality and Culinary Arts Management A.A.S** and a variety of certificate programs at FRCC.

FRCC Course	Semester	Testing Requirements, Course Prerequisites	Total Credits
CUA 101-Food Safety & Sanitation (2 credits)	Fall	None	Fall: 6 credits
CUA 129-Center of the Plate (4 credits)	Fall	None	
CUA 129-Baking & Pastry (4 credits)	Spring	None	Spring: 4 credits
			Total: 10 credits

Design Careers Exploration

Do you like the idea of blending art and science into a career? This program is designed for students interested in architecture, landscape design, interior design, engineering, or other design-related fields. Students study both traditional hand-drafting techniques and state-of-the-art computer-aided drafting skills. They will learn how to produce and interpret architectural plans that emphasize knowledge of environmentally-conscious building concepts. Students also learn project and presentation skills useful in many different career paths. This program is made up of lecture, classroom activities, studio- and computer lab-based projects, presentations, field trips, and the opportunity to earn placement in an internship.

High School Credit:

All students earn elective high school credit for participation in this program. Check with your counselor for more information.

FRCC College Credit:

Students can earn *optional* FRCC college credit through our concurrent enrollment option. Check with your counselor for more information about enrollment requirements. College courses apply towards the **FRCC Computer-aided Drafting & Design A.A.S.**, the **Architecture & Building Science A.A.S.**, and a variety of certificate programs at FRCC.

FRCC Course	Semester	Testing Requirements, Course Prerequisites	Total Credits
CAD 101-Computer-aided Drafting I (3 credits)	Fall	None	Fall: 3 credits
CAD 102-Computer-aided Drafting II (3 credits)	Spring	None	Spring: 9 credits
CAD 115-Sketchup (3 credits)	Spring	None	
HLT 130- Landscape Design I (3 credits)	Spring	None	
			Total: 12 credits

Medical Careers Exploration

Are you interested in a fulfilling career in the health care field? In this program, students gain foundational knowledge in science and medicine and exposure to a wide variety of medical professionals and facilities. Students explore anatomy and physiology, medical terminology, safe practices in the clinical setting, ethics in health care, and fundamental nurse aide skills. During the year, students can earn certificates in 1) Adult First Aid/CPR 2) Infant and Child First Aid/CPR and 3) Dementia Care. Curriculum also includes basic nurse aide (CNA) training, culminating in a three-day clinical experience working with real patients. This program is made up of lecture, classroom activities, guest speakers, practice in the nursing lab, field trips, community service, and clinical experiences. ***PSD students attend the program at FRCC and TSD students attend the program at the FRCC Community Learning Center site in Loveland.***

High School Credit:

All students earn elective high school credit for participation in this program. Check with your counselor for more information.

FRCC College Credit:

Students can earn *optional* FRCC college credit through our concurrent enrollment option. Check with your counselor for more information about enrollment requirements. Students can complete the **FRCC Nurse Aide Certificate** during this program, preparing them to take the State Certification Exam to become a Certified Nurse Aide.

Medical Careers Exploration (continued)

FRCC Course	Semester	Testing Requirements, Course Prerequisites	Total Credits
HPR 178 – Seminar: Medical Terminology (1 credit)	Spring	None	Spring: 6 credits
NUA 101 – Certified Nurse Aide Health Care Skills (4 credits)	Spring	Accuplace into CCR 093 or CCR 094 or higher	
NUA 170 – Nurse Assistant Clinical Experience (1 credit)	Spring	Coreq. NUA 101	
			Total: 6 credits

Welding & Metal Fabrication

Do you enjoy working with your hands? This program is great for students interested in learning basic welding & metal fabrication techniques. Employers are willing to pay top dollar for skilled welders! In this program, students build projects in the welding shop using gas metal arc welding, shielded metal arc welding, oxy-fuel cutting, plasma cutting, and metal-forming techniques. Students work together to produce unique creative designs in teams. At the end of each semester, students have a silent auction to sell their work. Fabricated items will include both student-initiated projects as well as items that were requested by local individuals and companies. This allows students to experience real-world business experience, working with customers on bidding, formalizing a contract, and more. This program is made up of lecture, hands-on training in the FRCC Weld Shop, group projects, guest speakers, and field trips.

High School Credit:

All students earn elective high school credit for participation in this program. Check with your counselor for more information.

FRCC College Credit:

Students can earn *optional* FRCC college credit through our concurrent enrollment option. Check with your counselor for more information about enrollment requirements. Students can earn the **FRCC Welding Fundamentals Certificate** during this program. College courses also apply towards a variety of additional degree and certificate programs at FRCC.

FRCC Course	Semester	Testing Requirements, Course Prerequisites	Total Credits
WEL 100 - Safety for Welders (1 credit)	Fall	None	Fall: 5 credits
WEL 103 – Basic Shielded Metal Arc I (4 credits)	Fall	Prerequisite or Co-requisite: WEL 100	
WEL 125 – Introduction to Gas Metal Arc Welding (4 credits)	Spring	Prerequisite or Co-requisite: WEL 100	Spring: 4 credits
			Total: 9 credits

Wildlife, Forestry, & Natural Resources

Do you love the outdoors? This program is designed for students interested in learning the fundamentals of forestry, soil and water resources, wildlife management, and outdoor recreation. Students explore soil, water quality and management principles required to make conscientious land-use decisions, and participate in a technician skills unit covering equipment operation, safe chain-saw use, GPS/mapping and orienteering. Classroom knowledge is applied through a research site at Horsetooth Reservoir and field labs at Horsetooth Mountain Park and on U.S. Forest Service land near Red Feather Lakes. This program is made up of lecture, classroom activities, field experiences, guest speakers, research projects, and the opportunity to earn placement in an internship during the spring semester.

Wildlife, Forestry, & Natural Resources (*continued*)

High School Credit:

All students earn elective high school credit for participation in this program. Check with your counselor for more information.

FRCC College Credit:

Students can earn *optional* FRCC college credit through our concurrent enrollment option. Check with your counselor for more information about enrollment requirements. Students can earn the **FRCC Forestry Certificate** during this program. College courses also apply towards a variety of additional degree and certificate programs at FRCC.

FRCC Course	Semester	Testing Requirements, Course Prerequisites	Total Credits
NRE 100 – Foundations of Forestry (3 credits)	Fall	None	Fall: 6 credits
NRE 110 – Forestry Field Research (3 credits)	Fall	None	
NRE 205 – Wildlife & Fisheries Management Principles (3 credits)	Spring	None	Spring: 3 credits
			Total: 9 credits

CAMPUS SELECT PROGRAM, FALL 2015-SPRING 2016



Students can choose Campus Select courses from the FRCC catalog.

For a complete list of offerings, visit www.frontrange.edu/Academics/Catalog-and-Course-Schedules/

HEATING, VENTILATION & AIR CONDITIONING

(Offered at the FRCC Community Learning Center at 800 S. Taft Ave, Loveland, CO)

NOTE: Assessment testing is required for all students. Students who place into CCR 093 or above and MAT 050 or above may enroll in HVA classes. For more info and additional HVA course offerings, call the HVAC Program at 970-613-7588.

HVA 101 Introduction to Air Conditioning & Refrigeration (4 credits)

Introduces school policies, safety procedures, and first aid. Use of trade tools and terminology is covered. Laboratory experiences include brazing, soldering, and material.

(1ST 7.5 weeks of Fall 2015 Semester, Monday thru Thursday from 12:30-2:30pm)

HVA 102 Basic Refrigeration (4 credits)

Introduces the basic theory of refrigeration systems, components, charging, recycling, and evacuation of refrigeration units. *Prerequisite or Corequisite: HVA 101*

(2nd 7.5 Weeks of Fall 2015 Semester, Monday thru Thursday from 12:30-2:30pm)

HVA 103 Basic Electricity (3 credits)

Covers basic electrical AC and DC theory, including study of Ohm's Law and using electrical theory to explain operation of electrical devices.

(1ST 7.5 Weeks of Spring 2016 Semester, Tuesday thru Thursday from 12:30-2:30pm)

HVA 104 Electrical Components For Air Conditioning And Refrigeration (4 credits)

Covers electrical power, distribution, transformers, capacitors, relays, and electric motors.

Laboratory experiences consist of using electrical devices to control electrical loads. *Prerequisite or Corequisite: HVA 103*

(2nd 7.5 Weeks of Spring 2016 Semester, Monday thru Thursday from 12:30-2:30pm)

NURSE AIDE CERTIFICATION

(Offered at the FRCC Community Learning Center at 800 S. Taft Ave, Loveland, CO)

NOTE: Assessment testing is required for all students. Students who place into CCR 093 or above may enroll in NUA classes. Students must be 17 years old. Out-of-pocket student costs (approx. \$375) to include; student fees, criminal background check, textbook, skills training DVD, clinical scrubs, a wrist watch, immunizations and TB test. For more info and additional NUA course offerings, call the Nurse Aide Program at 970-613-7580.

NUA 101 Certified Nurse Aide Health Care Skills (4 credits)

Prepares the student to perform the fundamental skills of the nurse aide.

NUA 170 Nurse Aide Clinical Experience (1 credit)

Applies knowledge gained from NUA 101 in a clinical setting (*Three eight-hour days of clinical shifts 6am-2pm or 2-10pm*).

15 week section: August 25-December 13, Tuesday & Thursday from 1-3:30pm

9.5 week section: August 25-October 30, Tuesday & Thursday from 8am-12pm

HIGH SCHOOL SELECT PROGRAM, FALL 2015-SPRING 2016



Course Prefix/#	Course Name	Instructor	High School
ACC 101	Fundamentals of Accounting (3)	Karen Seeton	Fossil Ridge HS
CWB 130	Web Editing Tools (3)	Paula Didero	Fossil Ridge HS
ENG 121	English Comp I (3)	Robert 'Todd' Forkner	Fossil Ridge HS
ENG 122	English Comp II (3)	Robert 'Todd' Forkner	Fossil Ridge HS
FRE 211	French Language III (3)	Nico Henry	Fossil Ridge HS
LIT 115	Intro to Literature (3)	Robert 'Todd' Forkner	Fossil Ridge HS
MAR 216	Principles of Marketing (3)	Tanya Alcaraz	Fossil Ridge HS
SOC 101	Intro to Sociology I (3)	Tara Rigby	Fossil Ridge HS

ASCENT PROGRAM, FALL 2015-SPRING 2016



What is ASCENT?

ASCENT stands for Accelerating Students through Concurrent Enrollment. It is a “5th Year Program” that allows seniors to remain enrolled in high school and take a fifth year consisting entirely of college classes, taken at Front Range Community College.

How would ASCENT benefit students?

By participating in this program a student will get to continue taking college classes, at Front Range Community College, while Poudre School District pays their college tuition. Many students finish the ASCENT Program having completed an Associate’s Degree.

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. *CU Succeed, CU Ready, CU Gold and Concurrent Enrollment classes from FRCC are all accepted. *AP and IB courses are currently not accepted.
- Not be in need of basic skills or remedial course work as defined by the Colorado Commission on Higher Education’s (CCH) remedial education policy.
- Have satisfied the minimum prerequisites for the college courses before enrollment in the course, including having the required ACT or Accuplacer scores.
- Complete an Individual Career and Academic Plan (ICAP) 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.

Questions about ASCENT? Contact Janie Wald, MA, ASCENT counselor, 970-286-5608 or email jwald@psdschools.org

NCAA Initial-Eligibility Resource Index

The NCAA's outreach and education efforts related to initial eligibility continue to remain a priority. These efforts are centrally focused on the NCAA Division I requirements for college-bound student-athletes enrolling on or after August 1, 2016. The following documents and presentations will assist colleges, the high school community, coaches, as well as students and parents with the initial eligibility, recruiting and college selection processes. Please refer to www.eligibilitycenter.org or the new outreach site, www.2point3.org for more information.

Quick Reference Materials:

- **Initial-Eligibility Brochure** – a tri-fold guide to the standards and steps that it takes to become an NCAA Division I or II student-athlete.
- **Division I Quick Reference Guide** – A complete two-page breakdown of the NCAA Division I initial-eligibility standards. (Also includes upcoming Division I initial-eligibility changes with the new sliding scale breakdown.)
- **Division II Quick Reference Guide** – A complete two-page breakdown of the NCAA Division II initial-eligibility standards. (Also includes upcoming Division II initial-eligibility changes with the new sliding scale breakdown.)
- **New NCAA Division I Academic Requirements** – This document discusses the new academic standards for student-athletes enrolling at a Division I college or university on or after August 1, 2016.

Information Guides:

- **Guide for the College-Bound Student-Athlete** – The Guide is a highly comprehensive tool that has been designed to help you understand the NCAA initial-eligibility process and to prepare student-athletes for transitioning from high school to becoming an NCAA Division I or II student-athlete.
- **NCAA Guide to International Academic Standards** – The NCAA Guide to International Academic Standards for Athletics Eligibility provides specific requirements needed for college-bound student-athletes who have completed any portion of their secondary education in a non-United States educational system wishing to study and compete at an NCAA Division I or II college or university.
- **Transfer Guide** – Basic information about transferring to an NCAA college for Divisions I, II and III.

Presentations and Courses:

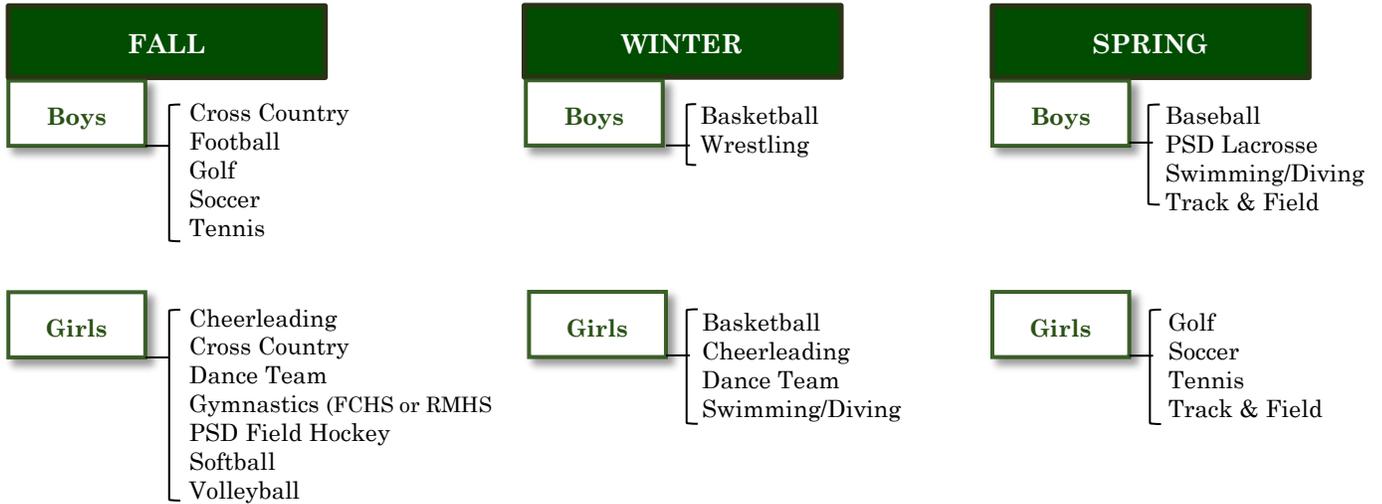
- **Video Presentation for Students and Parents** – a 20-minute video presentation for students and parents, which provides a wealth of information about the academic requirements to compete in NCAA Division I or II athletics, as well as a walk-through of the registration and certification process.
- **NCAA Eligibility Center Online Course** – A free 40-minute online experience. The participant is educated with a wealth of information, from the differences in the three NCAA divisions, to the academic requirements to compete in NCAA Division I or II athletics. A fun way to learn about the steps to becoming a college student-athlete.
- **2014-15 Your Path to the Student-Athlete Experience Presentation (for Students)** – A PowerPoint presentation for students and parents which provides insight into the Eligibility Center registration and certification process.
- **2014-15 Your path to the Student-Athlete Experience Presentation (for School Counselors)** – A PowerPoint presentation for the high school community, which provides insight into the NCAA Eligibility Center registration and certification process, as well as the responsibilities needed from a high school to aid in the academic certification of college-bound student-athletes.
- **New Academic Standards PowerPoint** – A PowerPoint presentation, which outlines the academic requirements for students enrolling at a college or university on or after August 1, 2016.

Other Communications Tools:

- **The High School Newsletter** – An electronic resource for counselors and administrators, sent directly to you email, which provides helpful tips and timely reminders as registered student-athletes make the transition from high school to college.
- **The Coaches Newsletter** – An electronic resource for coaches and athletic administrators, sent directly to your email, which provides helpful tips and information that you can communicate and provide to your student-athletes and parents. Select “Coach” as your title to sign up.
- **Follow us on Twitter.**

Athletics

Sports are also an integral part of the Fossil Ridge community. There are a variety of sports available for both boys and girls.



For additional information on sports, coaches, schedules and athletic participation, please visit the Fossil Ridge Athletic homepage on the school website

**Ken Denning – Athletic Director / Valerie Valdez – Administrative Assistant
(970) 488-6268**

PSD Secondary P.E./ Wellness Waiver

- Students are eligible to request 2.5 credits towards the Wellness graduation requirement by participating and successfully competing in and for a Colorado High School Activities Association (CHSAA) sponsored sport or marching band.
- One successful season of a sport/activity is equivalent to a 2.5 waiver of credit. No waiver for any activity will be given more than 2.5 credits.
- A student may only receive a waiver for each sport/activity one time for up to 2 different sports. No student may waive more than 5.0 total credits.
- Students who qualify for a waiver are still required to earn the total number of credits necessary to fulfill PSD graduation requirements.
- A student wishing to request a Wellness waiver must meet with their counselor to review their Individual Career and Academic Plan (ICAP).
- All waivers must be completed in the semester the sport/activity is completed.



**Poudre School District
Secondary PE/Wellness Waiver
PSD Sport/Activity
Course # 3610**

Student Name _____ **Student ID#** _____

PSD Activity/Sport

Football _____ Volleyball _____ Cross-Country _____ Softball _____ Soccer _____ Gymnastics _____

Tennis _____ Field Hockey _____ Marching Band _____ Basketball _____ Swimming _____ Wrestling _____

Track _____ Baseball _____ Lacrosse _____ Golf _____ Cheerleading _____ Dance _____

Wellness Waiver Guidelines

- 1) Students may waive no more than 2.5 credit hours per semester for a single activity.
- 2) Students may only receive a waiver one time per qualifying activity.
- 3) The total accumulation of Wellness waiver credit may not exceed 5.0 credit hours.
- 4) The waiver must be completed in the semester the sport/activity is completed

Required Signatures:

Parent/Guardian _____

Counselor: _____

Coach or Athletic Director: _____

**** I guarantee that the above-named student has participated in 45 hours of competitive athletics and has finished the season in good standing to earn a waiver of 2.5 Wellness credits.***

Student: _____

Building Administrator: _____

Student Life

An important focus of Fossil Ridge High School is to encourage students to develop their leadership abilities and to provide them with many opportunities to get involved. We offer various school sponsored academic and activity organizations that extend learning beyond the classroom and make positive contributions to the community. See Fossil's website at: frh.psdschools.org for the most up to date list of club offerings.

School Sponsored Academic

Café San Juan	History Club
The Chocolate Book Club	Key Club
Drama Club	Key Club Freshmen
DECA (Distributive Education Clubs of America)	Knowledge Bowl
FBLA (Future Business Leaders of America)	Mock Trial
FCCLA (Family, Careers, and Community Leaders of America)	Ridgebotics
Forensics	Science Bowl
French Club	Science Olympiad
FRESH (Fossil Ridge Energy Savings High)	Songwriters Guild
Games and Simulations Society	Technical Theater Club
German Club	Veg Alliance

School Sponsored Activities

Art Service Club	National Honor Society
Chess Club	National Technical Honor Society
Diversity Leadership & Awareness	Philosophy Club
Etched in Stone	Science National Honors Society
Film Club	Student Ambassadors
Fossil Friends	Student Council
Game Time Club	Writers' Guild
Model United Nations	Yearbook
Mu Alpha Theta Math Honor Society	
National Art Honor Society	

Is there an organization that is not listed that you would like to see at Fossil Ridge High School?

Approval for Student Initiated and Led Organizations:

- Submit Application for Student-Initiated and Led Organization (IGDA-E2) (district approved form)
- Return completed forms to the Activities Director
- Building Principal gives final approval

Supervision:

A member of the school staff shall serve as a monitor for purposes of general supervision at the meetings of student-initiated and led organizations, but may not sponsor a student-initiated and led organization or meeting.

Additional information is available by contacting Ms. Tremble in the North Wing Office (970) 488-6367

Integrated Services

Support for students with IEPs

Department Philosophy:

Integrated Services Staff works to develop an educational partnership between home, school and the community that seeks to ensure a quality education for students to become productive, contributing members of society.

- We support students by addressing their needs in a collaborative environment.
- We provide students opportunities to pursue meaningful post- secondary outcomes related to their strengths and interests.

Transition Process:

Each student with an IEP will have an individual transition meeting in January or February of his or her 8th grade year. Teachers from the middle school and Fossil Ridge High School will meet with the student and his or her parents to discuss the IEP, transition needs, registration, concerns and questions.

Registration Process:

All students should attend the registration information session provided by Fossil Ridge counselors at their middle school. Students with IEPs should follow the same registration process as their peers with the additional support of their case manager for final course scheduling.

For more information and a list of contacts, please visit the Integrated Services page on the Fossil Ridge High School website. <http://frh.psdschools.org/academics/departments/educational-support-services>

Advisory/Leadership

ADVISORY

9950FR9 Freshmen Foundations

9950FR10 Advisory 10th Grade

9950FR11 Advisory 11th Grade

9950FR12 Advisory 12th Grade

Credits:	2 (1 per semester)
Prerequisites:	None
Meets requirement(s):	Elective
Open to Grades:	9, 10, 11 & 12

At Fossil Ridge High School we have created a special structure to enable SaberCat students with a voice in school decisions and to build a strong sense of community. This aspect of Fossil Ridge is the Advisory period. The pairings will be ongoing for four years. The purpose of Advisory includes, but is not limited to: listening to and engaging students in decisions that impact Fossil Ridge High School; career exploration; study skills; communication; college exploration; service learning; volunteerism; hosting guest speakers; enjoying assemblies and concerts; preparing for required assessments (CMAS, PARCC, ACT, etc.) Please note that Advisory time earns one credit each semester and evolves into a seminar the second semester of the student's senior year. These credits are required for graduation.

LEADERSHIP

8104 Student Council

Credits:	10
Prerequisites:	Election or Advisor Approval
Meets requirement(s):	Elective
Open to Grades:	9, 10, 11 & 12

Student Council at Fossil Ridge HS is responsible for addressing school issues and policies that relate directly to the student body, and it is the sponsoring body for activities including Homecoming Week, and the Recognition Program at the end of the school year. It also holds the mission to raise school spirit as well as increase student participation. Prospective students must understand that there is a significant time commitment outside the normal school day. Additionally students may be required to develop a personal leadership plan, a personal leadership project and may be asked to serve on school and district committees to represent student body perspectives. **A condition of the class is being involved in the community and it is expected that students can provide their own transportation within the city.**

8107 Ambassadors

Credits:	10
Prerequisites:	Application process
Meets requirement(s):	Elective
Open to Grades:	10, 11 & 12

Ambassadors is a group of students who want to help others and have a positive impact on their peers. They are trained as peer educators and do class presentations on a variety of topics and do outreach activities at junior high and elementary schools. Examples of activities include helping students transition into high school, Red Ribbon Week assembly, sexual assault/harassment prevention, college fair, drug and alcohol awareness, and community service projects. **A condition of the class is being involved in the community and it is expected that students can provide their own transportation within the city.**

8157 Diversity Leadership

Credits:	10
Prerequisites:	Application process
Meets requirement(s):	Elective
Open to Grades:	10, 11 & 12

This course will focus on building leadership skills promoting diversity within our student body and increasing awareness and acceptance of all populations and backgrounds. Academic time and support will also be a component of this course. Students of all backgrounds are encouraged to register and apply.

8140R Peer Helper

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

Students will act in the capacity of teaching para-professionals 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.

Business Department

Business, Marketing and Technology Pathways

Business Administration

Possible Careers: Accounting, Legal Services, Corporate Management, Administrative Services, Banking, Financial Advisor

**Participation in DECA and FBLA encouraged*

Introduction to Business & Computer Applications (5 cr. each)
 Business Law (5 cr.)
 Finance (5 cr.)
 Business Economics (5 cr.)
 Accounting 1, (5 cr. each)
 Accounting 2 (5 cr.) *FRCC Concurrent Enrollment
 Entrepreneurship Capstone (10 cr.) *DECA and/or FBLA required
 Business Leadership Capstone (10 cr.) *FBLA is Required

Marketing

Possible Careers: Public Relations, Advertising, Sales, Market Research, Brand Manager

**Participation in DECA encouraged*

Introduction to Business & Computer Applications (5 cr. each)
 Marketing (5 cr.)
 Sports and Entertainment Marketing (5 cr.)
 Finance (5 cr.)
 Business Economics (5 cr.)
 Entrepreneurship Capstone (10 cr.) *DECA and/or FBLA required
 Advanced Marketing (10 cr.) *DECA is Required
 Marketing Leadership Capstone (10 cr.) *DECA is Required *FRCC Concurrent Enrollment

Computer Technology

Possible Careers: Web Designer, Animator, Graphic Designer, Software Development

**Participation in FBLA encouraged*

Computer Applications (5 cr.)
 Web Design 1 (5 cr.)
 Web Design 2 (5 cr.) *FRCC Concurrent Enrollment
 Game Design 1 (5 cr.)
 Game Design 2: Mobile Applications (5 cr.)

Business Department Courses

9th and 10th Grade Recommended Course:
 Introduction to Business

Business Electives

Accounting 1
 Accounting 2 - concurrent enrollment only
 Business Law
 Business Leadership Capstone

Marketing Electives

Marketing
 Sports and Entertainment Marketing
 Advanced Marketing
 Marketing Leadership Capstone – concurrent enrollment only

Classes that Fulfill Graduation Requirements:

Finance *Meets Personal Finance
 Business Economics *Meets Economics
 Entrepreneurship Capstone *Meets Personal Finance
 Web Design 1 & 2, Game Design 1 & 2 *Meets Fine and Applied Arts

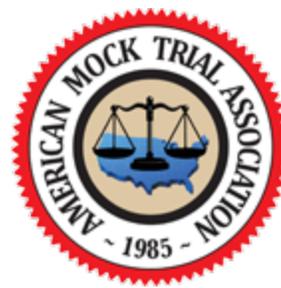
Business Student Leadership Organizations

FBLA – Future Business Leaders of America is a nationally-recognized business organization and co-curricular program that offers students an opportunity for professional growth, community service, and competition (through examination, role play, project planning, and public speaking). There are opportunities to compete and to run for offices at the local, district, state, and national levels. Staff Sponsors: Karen Seeton (kseeton@psdschools.org) and Paula Didero (pdidero@psdschools.org).

DECA – An association of marketing students is a co-curricular marketing program which offers students an opportunity for professional growth, community service, and competition (through examination, role play, portfolio planning, and public speaking). There are opportunities to compete and to run for offices at the local, district, state, and national levels. Staff Sponsors: Tanya Alcaraz (talcaraz@psdschools.org), Jamie Menefee (jmenefee@psdschools.org), Andy Stevens (astevens@psdschools.org).

Mock Trial – Mock Trial is a nationally-affiliated student organization, sponsored by the Colorado Bar Association. Teams of 12 students participate in a mock trial and compete against other northern Colorado schools. Students are given the opportunity to expand their speaking, writing, reading, and analytical skills while learning about the judicial system. Students play the role of attorneys and witnesses in a fictitious case. Staff Sponsor: Karen Seeton (kseeton@psdschools.org).

NTHS – National Technical Honor Society membership is granted to students who complete 15-credits in business classes by their junior or senior year. They must maintain a 3.5 GPA in business classes and a 3.1 GPA overall. Students must also complete 10 hours of community service and remain in good standing in terms of citizenship, character, and attendance. All NTHS members will be recognized at their graduation ceremony with an honor cord and special notation in the graduation program. Staff Sponsors: Paula Didero (pdidero@psdschools.org)



1830 Accounting 1

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

This introductory accounting course is important for any student interested in managing a business, becoming an entrepreneur or studying business in college in the future. It introduces students to the basics of financial statements and bookkeeping methods that are universal for all businesses, while utilizing simple math and learning business world protocols and language. Students will learn industry relevant accounting principles for a service business organized as a sole proprietorship or a partnership. Students will be introduced to QuickBooks Pro automated accounting.

1831CEFRCC Fundamentals of Accounting



(formerly Accounting 2)

Credits: 5
Prerequisites: Accounting 1
Meets requirement(s): Elective
Open to Grades: 9, 10, 11 & 12

Presents the basic elements and concepts of accounting with emphasis on the procedures used for maintaining journals, ledgers, and other related records, and for the completion of end-of-period reports for small service and merchandising businesses.

1920 Business Economics

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

Students will learn and be able to apply economic logic in solving business problems and in analyzing current topics. Course emphasis is on the role of free markets in determining economic well-being. Course covers the fundamentals of micro and macroeconomics. **At FRHS: This course meets the graduation requirement of Economics.**

1910 Business Law

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

The law touches all of our lives in some way! Business Law provides an opportunity for the student to learn about our legal system and laws that apply to the student's life within his/her community. A major purpose of this course is to help the student recognize and avoid legal difficulties in business dealings and to seek professional counsel when needed. **At FRHS: This class will prepare students interested in extracurricular mock trial competitions.**

1763B Business Leadership Capstone

Credits: 10
Prerequisites: Business class and Business teacher approval
Meets requirement(s): Elective
Open to Grades: 11 & 12

Advanced business students will develop their knowledge of business concepts through a wide range of activities and projects. Learning opportunities may include direct experiences such as school store operations/management, FBLA conference preparation, project and event management, and other business experiences. Both in-town and out-of-town field trips are planned for competitive events and visits to business partners. Business teacher recommendation is required for this class. **At FRHS students will plan a March of Capital Dimes Event, partner with the city of Fort Collins to create hundreds of kites for their annual Kites in the Park Festival, and partner with a local vendor to fundraise. There will be a class fee to cover membership dues in FBLA.**

1771 Entrepreneurship Capstone

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

Entrepreneurship Capstone provides students a culminating experience as they to learn how to own and operate a business. Each student will design a business plan which includes developing and analyzing business concepts, sources of financing, location and competition analysis, market research, business procedures, risk management, promotional planning, and human resources management. Students will be given opportunities outside of the classroom to explore entrepreneurial opportunities and work with community members to enhance their experience in this class. This class requires participation in DECA and/or FBLA and will have a class fee to cover membership dues. **At FRHS: This course meets the graduation requirement of Personal Finance.**

1930 Finance

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

Finance introduces students to the exciting world of money. This course will examine: the American monetary system, banking, insurance, real estate, money markets, the stock market, international banking, and investment strategies. Students will learn financial concepts through the use of simulation, investment planning, decision-making, and examination of current issues. Learn how to play the money games. **At FRHS: The Virtual Business Simulation lets you manage your personal finances while working and living on your own.** This course meets the PSD graduation requirement for Personal Financial Literacy.

1851 Introduction to Business

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

Students will learn the basics of economics, international business management, entrepreneurship and marketing. Introduction to Business is the foundation for all other business courses offered in Poudre School District and at the post-secondary level.

1760 Marketing

Credits: 5
Prerequisites: Introduction to Business
Meets requirement(s): Elective
Open to Grades: 10, 11 & 12

Learn to market products and services. This exciting class explores the concepts of advertising, display, salesmanship, and the marketing concepts of product, price, place, and promotion. Student-oriented activities include computer simulations, development of products, group activities, and individual projects. Open to any student who wants to be challenged by the fundamentals of marketing. **At FRHS: Involvement in DECA is highly recommended.**

1790 Advanced Marketing

Credits: 10
Prerequisites: Marketing and DECA membership is required
Meets requirement(s): Elective
Open to Grades: 11 & 12

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: Course fee is \$40.**

1763CEFRCC FRCC Marketing Leadership Capstone



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

Advanced marketing students will develop their knowledge of marketing concepts through a wide range of activities and projects. Learning opportunities may include direct experiences such as school store operations/management, DECA conference preparation, project and event management, and other marketing experiences. Both in-town and out-of-town field trips are planned for competitive events and visits to business partners. Marketing teacher recommendation is required for this class. **At FRHS: Course fee is \$40.**

1758 Sports and Entertainment Marketing

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

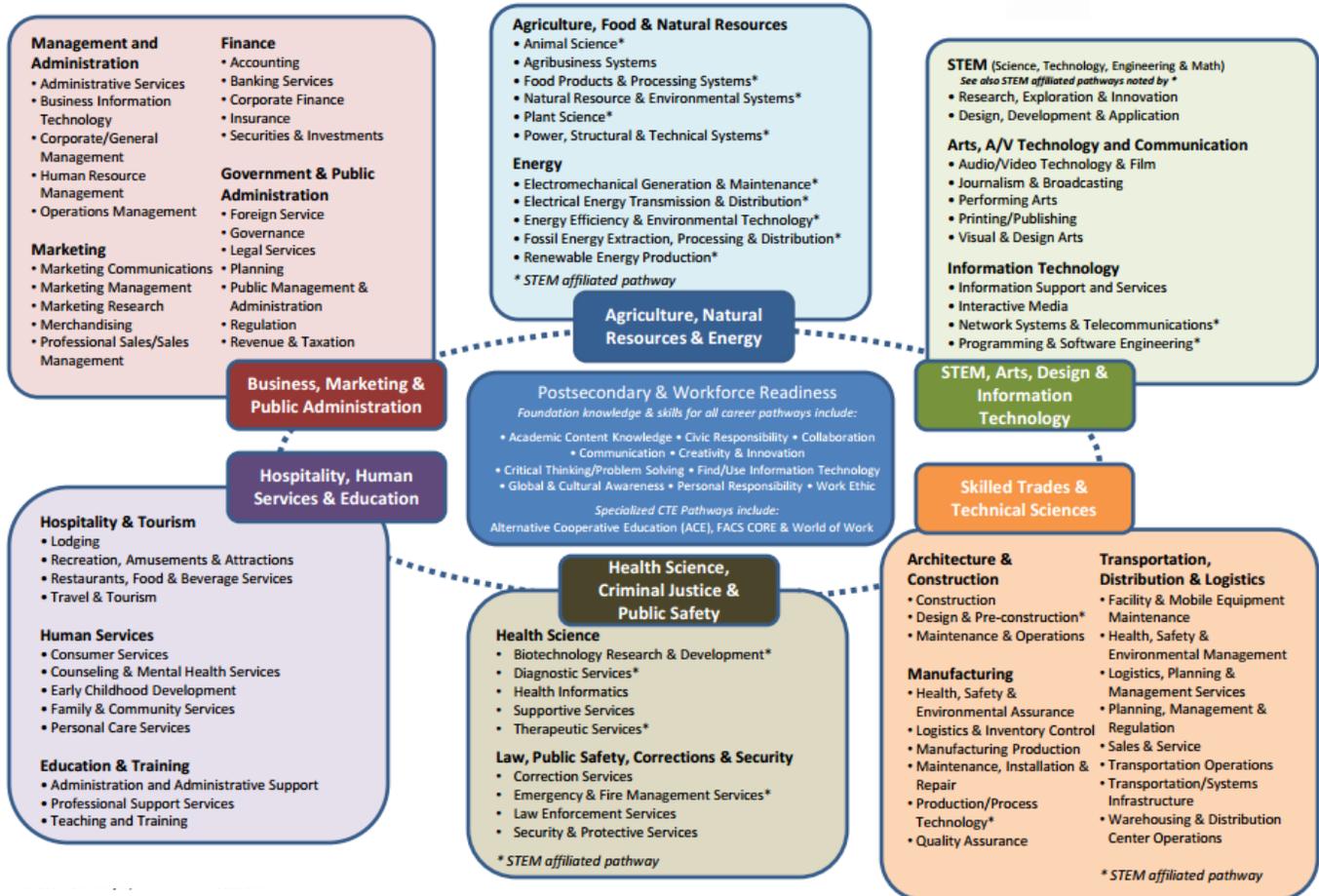
Explore the intriguing world of sports and entertainment from the perspective of marketing. The areas this course will cover include review of basic marketing principals, marketing college and professional sports teams and venues, marketing products through sports and entertainment, entertainment marketing, sports marketing plans, sponsorship proposals, and career opportunities with the sports and entertainment industries. Learning activities will include simulations, current and real-life events, individual and group projects and presentations.

Student Career Development Programs

Go Beyond the Classroom



Internships, Work-Experience, and Volunteer Experience in the Community!



PWR Internship Program (Postsecondary and Workforce Ready)

1791/1792/1793, PWR Internship – Fall, Spring, Summer

Credits: 5 Credits
 Prerequisites: Counselor and Teacher Recommendation
 Meets requirement(s): Elective
 Open to Grades: 12

The PWR (Post-Secondary Workforce Readiness) Internship program offers eligible seniors in Poudre School District an opportunity to earn high school credit and gain experience in a chosen profession or industry. These students represent the high standards of PSD, maintain a 3.4 GPA or higher, plan to pursue post-secondary education or a career and are able to log 75 hours in an unpaid internship with the employer during one semester. Students selected for the program will be placed in an internship related to their career goal and will submit weekly online updates and time reports to the Internship Coordinator. This course will support students as they develop 21st Century foundational workplace skills. For more information, see your counselor.

PaCE (Professional and Community Experience)

1782 PaCE I

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

The Professional and Community Experience (PaCE) program offers students opportunities to gain career related experience while still in high school. 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 attend required seminars and take other course work related to career goals. (Summer opportunities are available.) Since seminars are not available during the summer, students must be enrolled in PaCE II the following fall to receive credit.

1781 PaCE II

Credits: Variable
Prerequisites: One year or two semesters of PaCE I and Teacher approval
Meets requirement(s): Elective
Open to Grades: 12

The Professional and Community Experience (PaCE) program offers students opportunities to gain career related experience while in high school. 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 attend required seminars and take other course work related to career goals.

ACE (Alternative and Cooperative Education)

In Poudre School District the Alternative Cooperative Education (ACE) provides work experience, related classroom instruction and vocational transition planning for high school students with special needs. Students develop personal and career skills preparing them to live and work independently as vital, contributing members of their community.

- **Eligibility:** this program is for high risk students as well as on an Individual Education Plan (IEP) who demonstrate a need for transition services.
- **Services:** classroom instruction and experiential learning opportunities to assist the student in developing personal and career skills. ACE includes Internships, paid work experience, mentoring and career tours.

For more information contact:

Joe Allen rallen@psdschools.org
FRHS ACE coordinator



FRHS Computer Technology & Design Career Pathways

Computer Science and Programming

Introduction to Computer Science
(5 credits)

AP Computer Science
(5 credits)

Robotics 1
(5 credits)
**Fine and Applied Arts*

Robotics 2
(10 credits)
**Fine and Applied Arts*

Web Design and Digital Design

Computer Applications
(5 credits)

Web 1
(5 credits)
**Fine and Applied Arts*

Web 2
(5 credits)
Concurrent Enrollment with FRCC
**Fine and Applied Arts*

Digital Design
and Advanced Digital Design
(5 credits each)
**Fine and Applied Arts*

Game and App Development

Computer Applications
(5 credits)

Game 1 – Game Design &
Development (5 credits)
**Fine and Applied Arts*

Game 2 – Mobile Applications
(5 credits)
**Fine and Applied Arts*

Introduction to Computer Science
(5 credits)

* Course credits count toward graduation requirement of 10 credits in Fine and Applied Arts

For more information on these courses contact:

- ❖ Computer Apps, Web 1 & 2, Game 1 & 2
 - Paula Didero, Business Department, pdidero@psdschools.org
- ❖ AP & Intro to Computer Science, Robotics 1 & 2
 - Vern Rhead, Engineering and Tech Department, vrhead@psdschools.org
- ❖ Digital Design, Advanced Digital Design
 - Chelsea Ermer, Art Department, chelseae@psdschools.org

1750 Computer Applications

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

This course introduces computer concepts and components as well as application suite software and the internet. Includes hands on experiences with word processing, spreadsheets, databases and operating environments. In addition to application software, students in this course will work collaboratively with their classmates using web-based applications.

1751 Game Design and Development

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

This course is an introduction to the theory and practice of computer game design and programming. Students will use Game Maker to design and program games at the beginner to intermediate level. Online tutorials, readings, and projects will cover various aspects of computer game design, production, and application. Students will be able to plan, design and create their own individual and collaborative game projects.

1754 Game Design 2: Mobile Applications

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

Game Design 2: Mobile Applications is a mobile application design & programming course using open source applications and industry programming languages (Java, Python, etc.) to design and build applications (apps) for Android devices. Game Design 2 expands on programming concepts taught in Game Design Level 1. By the end of the course, students are able to design, build, test and successfully download working mobile applications for Android devices.

1766 Web Design 1

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

This course introduces computer concepts and components as well as application-suite software and the Internet. It includes descriptions of and hands-on experiences with word processing, spreadsheets, databases, operating environments and CIS. This is a career and technical education course. (CTE)

1767CEFRCC FRCC Web Design 2



Credits: 5
Prerequisites: Web Design 1 or Teacher approval
Meets requirement(s): Fine & Applied Arts
Open to grades: 9, 10, 11 & 12

Students in this course will use computers and technology to gain advanced skills in graphics and web design. This class is project based and students will have the opportunity to choose individual project topics. Topics covered in this class will include advanced practices, web site management and commercial implementation. At the conclusion of this class students will be able to create commercially viable websites and present themselves to the public in a professional, business-like manner. Students will be expected to explain and model appropriate technology ethics. Software includes: Industry standard software Adobe Creative Cloud, Dreamweaver, Photoshop, Fireworks and Flash. Software certifications may be an option for students completing this course.

6320 Introduction to Computer Science

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

Introduction to Computer Science is designed to provide the student with an introduction to computer programming techniques and acquaint him/her with the Java language and operating system. The course topics follow the AP Computer Science A syllabus and students have the option of continuing their enrollment in the second semester with AP Computer Science A to prepare for the AP exam in May. Some of the topics included are data types, control structures, class design, and list processing

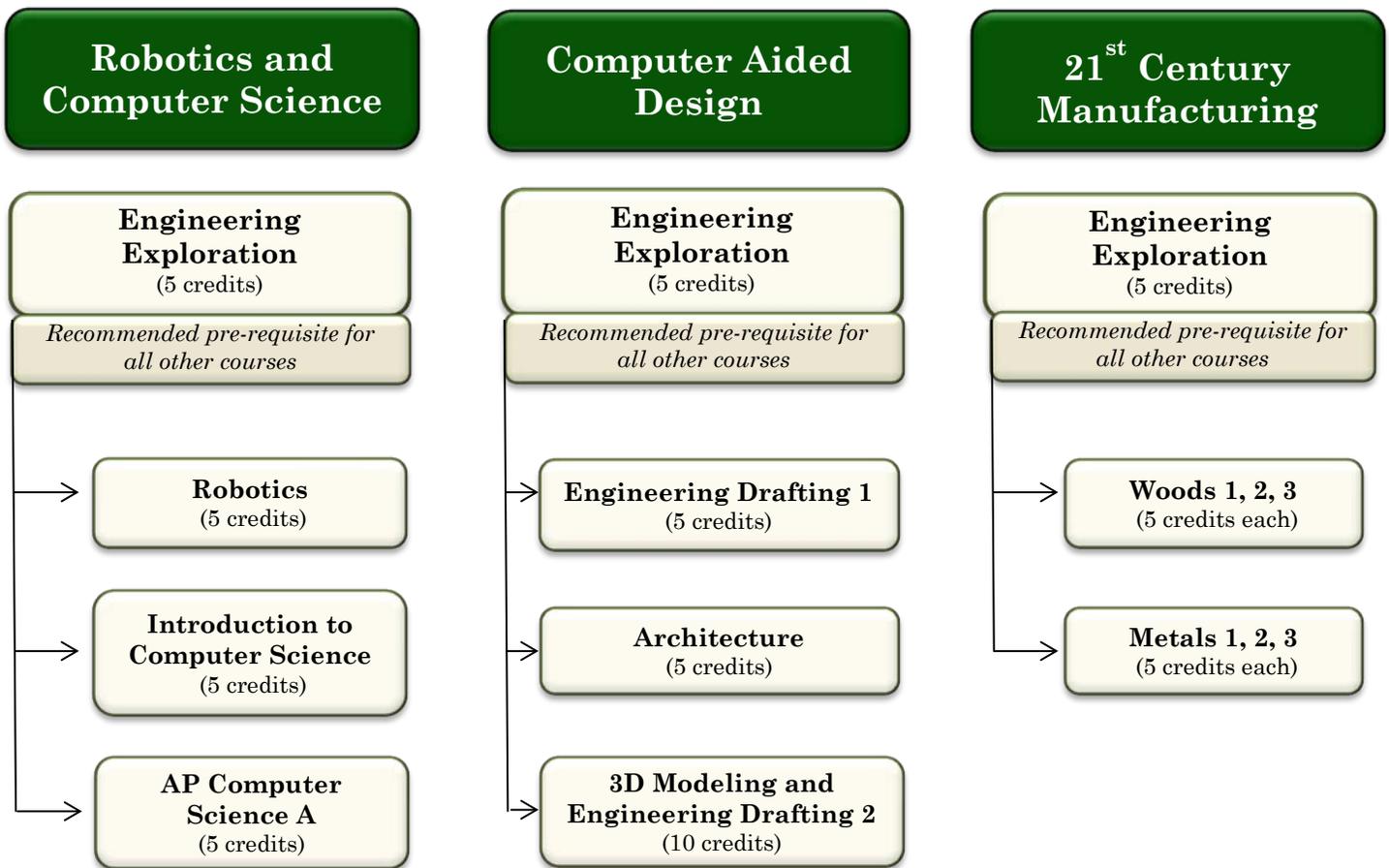
6329 AP Computer Science A

Credits: 5
Prerequisites: Introduction to Computer Science
Meets requirement(s): Elective
Open to Grades: 10, 11 & 12

AP Computer Science is an introductory course in computer programming, designed for students with no prior programming experience. This course teaches students to design, code, and test their own computer programs using the JAVA computer language. Throughout the year, students learn to utilize data structures and algorithms common to most programming languages and apply them in problem solving, both individually and coding collectively within groups. The AP Computer Science Case Study is a required part of this course, and will engage students in examining the design and extending the functionality of a large piece of code provided by the College Board. This course will help prepare the student for the AP Computer Science A exam.

Engineering Sciences and Technology Pathways

Technology is a hands-on approach to academics at Fossil Ridge High School. The learning environment will be in experiential laboratory settings that encourage students to develop skills not only in knowledge and application, but also in higher order thinking and problem solving through the use of multiple tasks that require analysis, synthesis and evaluation of materials, processes and human knowledge. Any student interested in a career field in engineering, business or a technical field should take one or more of the following courses



Robotics 2 (10 credits)

**Students will work with industry mentors to design, program and build FRC robots to compete at the national level. This program will meet after school as a 9th period applied engineering class.*

2279 Engineering Exploration

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

This class is the first in a sequence of Technology Education/Engineering courses at the high school level. Students will work in a variety of design and manufacturing project-based environments. The emphasis will be learning to solve problems using engineering design processes, tool, materials, machines, computers and software applications. It is highly recommended that Ninth graders take this course BEFORE taking any other Technology Education courses. (Students in grades 10, 11, and 12 are also welcome to take this class.)

2210 Engineering Drafting 1

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

This course introduces students to the principles of drafting used by engineers and technicians through a hands-on learning environment. Topics of instruction include drawing interpretation, visualization, and geometric construction, sectioning developments, mechanical and architectural drawings. Both instrument drawing and Computer Aided Drafting (CAD) will be used. This course will be beneficial to those interested in a career in any engineering or technical field.

2210W Engineering Drafting 1-(women)

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

This course introduces students to the principles of drafting and graphics used by engineers and technicians through a hands-on approach to learning. Topics of instruction include basic Computer Aided Drafting skills such as drawing aids, edit drawings, plotting dimensioning, tolerances, and 3D modeling. There will be much emphasis placed on 3D modeling and Architectural design to serve as entry levels to more advanced Engineering Drafting courses. This course will be beneficial to those interested in a career in engineering or technical fields.

2223 Architecture

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

Architecture is designed for advanced drafters to

2223 Architecture continued...

develop skills in the field of architectural engineering. This class will offer the experience in the development and design of structures using architectural design software. Students will develop drafting skills through reading architectural blue prints and generating floor plans for real world applications.

2221 3D Modeling – Engineering Drafting 2

Credits: 10
Prerequisite: Engineering Drafting I
Meets requirement(s): Fine & Applied Arts
Open to Grades: 10, 11 & 12

This advanced drafting class will have students creating and modeling projects in three-dimensions. Drafting skills will be developed in several software forms through predetermined and student designed projects. Modeling practices and standards such as precision, accuracy and tolerance will be emphasized.

2205 Robotics 1

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

Students in this class will study programming electronics, manufacturing pneumatics and mechanical systems as applied to robotics. While working in groups students will solve robotics problems using programmable robots. This class would be of interest to anyone planning a career in the field of automated manufacturing, engineering or other robotics applications.

2206 Robotics 2

Credits: 10
Prerequisites: Robotics 1
Meets requirement(s): Fine & Applied Arts
Open to Grades: 10, 11 & 12

Students will continue their exploration and deeper concentration into the field of robotics. Building on skills and knowledge attained in Robotics 1 students will develop solutions to a variety of complex design challenges. Emphasis will be placed on programming, robot design, teamwork, creative problem solving and critical thinking. Students will also investigate the expanding use of robots in industry and everyday society and career paths related to robotics. **At FRHS: Robotics 2 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.**

6320 Introduction to Computer Science

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

Introduction to Computer Science is designed to provide the student with an introduction to computer programming techniques and acquaint him/her with the Java language and operating system. The course topics follow the AP Computer Science A syllabus and students have the option of continuing their enrollment in the second semester with AP Computer Science A to prepare for the AP exam in May. Some of the topics included are data types, control structures, class design and list processing

6329 AP Computer Science A

Credits: 5
Prerequisites: Introduction to Computer Science strongly recommended
Meets requirement(s): Elective
Open to Grades: 10, 11 & 12

AP Computer Science is an introductory course in computer programming, designed for students with no prior programming experience. This course teaches students to design, code, and test their own computer programs using the JAVA computer language. Throughout the year, students learn to utilize data structures and algorithms common to most programming languages and apply them in problem solving, both individually and coding collectively within groups. The AP Computer Science Case Study is a required part of this course, and will engage students in examining the design and extending the functionality of a large piece of code provided by the College Board. This course will help prepare the student for the AP Computer Science A exam.

2295 Engineering & Design Capstone

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

This capstone class allows students to continue their study of technology, technical drawing, engineering, robotics or architecture. Students will work with their instructor to design an independent advanced project to continue studies of a topic which they have developed a strong interest. Students will collaborate with a team of mentors from both in the school and the community to design their final project.

2282 Woods 1 - Engineering Systems

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

2282 Woods 1 - Engineering Systems continued...

This class focuses on woodworking and manufacturing. Students will demonstrate safety and production on each woodworking machine. With this knowledge, they will construct a variety of projects that will exhibit their woodworking skills. This course will benefit those interested in a career in wood manufacturing and design.

2233 Woods 2 - Engineering Systems

Credits: 5
Prerequisites: Woods 1 - Engineering Systems
Meets requirement(s): Fine & Applied Arts
Open to Grades: 10, 11 & 12

This class expands on woodworking skills. Topics of instruction include advanced joinery techniques such as the dovetail joint, wood bending jigs and fixtures utilizing hand held routers and furniture construction. Students are expected to buy their own wood since many projects will vary in size and cost.

2237 Woods 3 - Engineering Systems

Credits: 5
Prerequisites: Woods 2-Engineering Systems
Meets requirement(s): Fine & Applied Arts
Open to Grades: 10, 11 & 12

The third in a series of 5 credit courses exploring the technical knowledge and skills of woodworking. Students will apply principles of design and construction to build a variety of increasingly advanced cabinetry and furniture projects. Students will prepare plans, create drawings and designs, mill and machine raw material, assemble complex joinery, and utilize various finishing techniques for the completion of their projects. An emphasis will be placed on shop safety and the safe use of a variety of hand tools, power tools, and stationary woodworking machinery. The course will include an exploration of career opportunities available to the modern woodworker.

2283 Metals 1 - Engineering Systems

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

This course is an introduction to metalworking and machining. Course content will include precision measuring tools metal fabrication welding and cutting fundamentals pattern and foundry methods metal machining including CNC programming and operations. Students will learn to set up and operate a variety of metalworking machines in the construction of several useful projects. This is an excellent preparation for Front Range programs or for students needing materials experience for engineering programs.

2284 Metals 2 - Engineering Systems

Credits: 5
Prerequisites: Metals 1-Engineering Systems
Meets requirement(s): Fine & Applied Arts
Open to Grades: 10, 11 & 12

This class expands on welding and machining skills. An emphasis of this course will be Computer Numerical Control machining. Students will also work on advanced machine shop and welding techniques. Additional topics of instruction will include machining threads, boring, vertical mill set ups and MIG welding. A small group production project such as a working model will be a major component of this course.

2287 Metals 3 - Engineering Systems

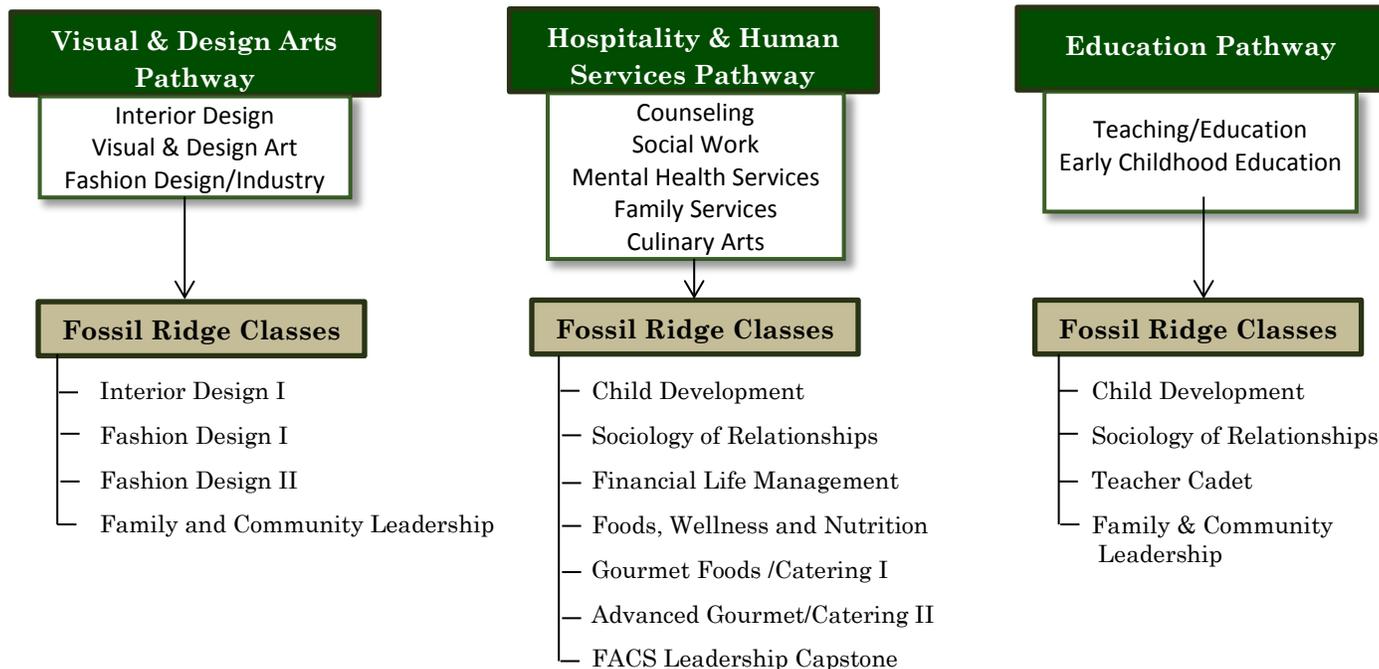
Credits: 5
Prerequisites: Metals 2-Engineering Systems
Meets requirement(s): Fine & Applied Arts
Open to Grades: 10, 11 & 12

The third in a series of 5 credit courses exploring the technical knowledge and skills of metalworking. Students will apply principles of design and construction to build a variety of increasingly advanced projects. Students will prepare plans, create drawings and designs, mill and machine raw material, fabricate assemblies, and utilize various metalworking techniques for the completion of their projects. An emphasis will be placed on shop safety and the safe use of a variety of hand tools, power tools, and stationary machinery. The course will include an exploration of career opportunities available to the modern metalworker.

Family and 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



4210 Financial Life Management

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

Unless you plan to live at home the rest of your life this class is for you. Everything you need to know about living on your own from finding a job and researching your career options to moving out and cooking for yourself. Living on your own means learning how to manage your money. Our Finance unit will focus on banking, budgeting, credit and investing for the future. End the semester learning how to be a smart consumer including basic cooking skills to help you save money and eat healthy. This course meets the PSD graduation requirement for Personal Financial Literacy. FCCLA (Family, Career, and Community Leaders of America) will be incorporated in this class. FCCLA allows students the opportunity to be part of a National student organization and have the opportunity to compete at the state level by being an active FCCLA member.

4310 Child Development

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

Do you like children? Are you interested in a career working with children? If you answered —yes, then this is for you! This course focuses on knowledge and skills related to the development, care, guidance, and protection of children. Instruction addresses the principles of promoting the physical, emotional, social, and intellectual development of children. Other topics include parenting rights and responsibilities, pregnancy, and prenatal care and development. This class is also a great foundation for students interested in psychology, sociology and human development. FCCLA (Family, Career, and Community Leaders of America) will be incorporated in this class. FCCLA is a national Student Leadership Organization that provides personal growth, leadership development and career preparation opportunities for students in Family and Consumer Sciences education. Students will have opportunity to compete at the state level by being an active FCCLA member.

7290 Sociology of Relationships

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

Dating? Marriage? Relationships with parents? This course is about all these things and more. You will explore your personal attitudes, goals, and values. This class will help you seek positive relationships with others, improve the quality of your relationships, and help you make better choices leading toward a more fulfilling life. Emphasis will be placed on studying those relationships that involve emotional, psychological, or physical closeness. Being educated on these issues will increase your tolerance for people whose decisions and lifestyles are different from your own. Relationships are often the most important aspects of our lives, learn how to develop yours! FCCLA (Family, Career, and Community Leaders of America) will be incorporated in this class. FCCLA is a national Student Leadership Organization that provides personal growth, leadership development and career preparation opportunities for students in Family and Consumer Sciences education. Students will have opportunity to compete at the state level by being an active FCCLA member.

4340 Interior Design I

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

Are you passionate about design and home décor? Do you re-arrange your furniture regularly? Ever dream about designing for HGTV? This course will introduce you to the profession of Interior Design in a hands-on environment. You will learn the elements and principles of design within the context of residential interiors. Learn to design personal spaces with flair and manage client relationships. Time to start designing! FCCLA (Family, Career, and Community Leaders of America) will be incorporated in this class. FCCLA allows students the opportunity to be part of a National student organization and have the opportunity to compete at the state level by being an active FCCLA member. **There is a lab fee for this course.**

4390 Fashion Design I

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

Is Paris calling you? Do you have a flair for fashion? Join us in the study of the world of fashion. Topics will include: history of fashion; fashion trends; textile selection; and construction. You will be encouraged to challenge your sewing knowledge and creativity with an assortment of projects related to fashion. By the end of this class you will have the skills to further develop

4390 Fashion Design I continued...

your passion for fashion. FCCLA (Family, Career, and Community Leaders of America) will be incorporated in this class. FCCLA allows students the opportunity to be part of a National student organization and have the opportunity to compete at the state level by being an active FCCLA member. **There is a lab fee for this course.**

4391 Fashion Design II

Credits: 5
Prerequisites: Passing Grade in Fashion Design I
Meets requirement(s): Fine & Applied Arts
Open to Grades: 9, 10, 11 & 12

Fashion Design II (Fashion Design/Construction). So you have conquered Paris and you are now ready for the world of fashion! This class is for you. We will utilize all the skills you learned in Fashion I and take it up a notch or two. We will learn more in depth construction techniques, spend more time with design, explore the world of fashion merchandising, go green and learn how to take your own design from the drawing board into your favorite retail store. Time will be spent researching and exploring career opportunities in the fashion industry. FCCLA (Family, Career, and Community Leaders of America) will be incorporated in this class. FCCLA allows students the opportunity to be part of a National student organization and have the opportunity to compete at the state level by being an active FCCLA member. **There is a lab fee for this course.**

4410 Foods, Nutrition and Wellness

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

Are you curious about how the food you eat impacts your health and performance? You will learn how to develop lifelong healthy eating choices along with basic cooking techniques. Emphasis is placed on implementing healthy nutritional choices, preparing nutrient dense foods, exploring careers related to culinary nutrition and current food trends. You will gain valuable hands-on experience during food labs. FCCLA (Family, Career, and Community Leaders of America) will be incorporated in this class. FCCLA is a national Student Leadership Organization that provides personal growth, leadership development and career preparation opportunities for students in Family and Consumer Sciences education. Students will have opportunity to compete at the state level by being an active FCCLA member. **There is a lab fee for this course.**

4023 Teacher Cadet

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

"Interested in teaching as a possible profession? Interested in the role education plays in society? If so, this is the class for you! Students in this class will be involved in a fast paced innovative hands-on curriculum where they gain knowledge about teaching and learning. Teacher Cadets will develop and master skills that will be helpful in college and beyond, such as presentation, public speaking, writing, communication and reasoning. This is a course with college credit options. Each student will make a difference with children as they are able to "try out" teaching in a "mini-teaching" experience."

4450 FACS Leadership Capstone

Credits: 10
Prerequisites: Family and Consumer Science teacher recommendation only
Meets requirement(s): Elective
Open to Grades: 10, 11 & 12

Are you an advanced Family and Consumer Sciences student, wanting to cultivate essential leadership skills and establish fundamental knowledge of Family Career and Community Leaders of America (FCCLA)? Students will have the opportunity to develop and enhance a personal philosophy of leadership that includes: the understanding of self, others and community, and acceptance of responsibilities inherent in community membership. Learning opportunities may include direct experiences such as: FCCLA competition preparation, community service projects, dynamic leadership portfolios, and career exploration. **There will be a class fee to cover membership dues in FCCLA.**

4440 Gourmet Foods/Catering I

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

If you have a passion for food and a craving to expand your culinary skills, this class is the place for you. This class allows you, the "foodie," to further develop your food preparation skills and explore the social aspects of food and entertaining. You will learn how to create beautiful food presentations and understand how to create a subtle mix of flavors. You will gain the knowledge, skills and practices required for careers in food production and services. You also have the exciting opportunity to help cater an event. FCCLA (Family, Career, and Community Leaders of America) will be incorporated in this class. FCCLA is a national Student Leadership Organization that provides personal growth, leadership development and career preparation

4440 Gourmet Foods/Catering I continued...

opportunities for students in Family and Consumer Sciences education. Students will have opportunity to compete at the state level by being an active FCCLA member. **There is a lab fee for this course.**

4441 Advanced Gourmet/Catering II

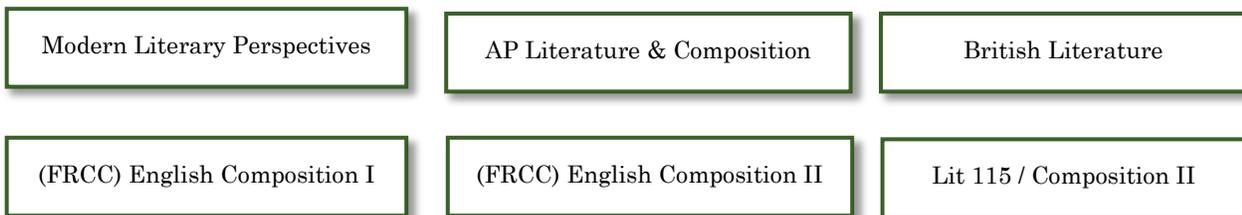
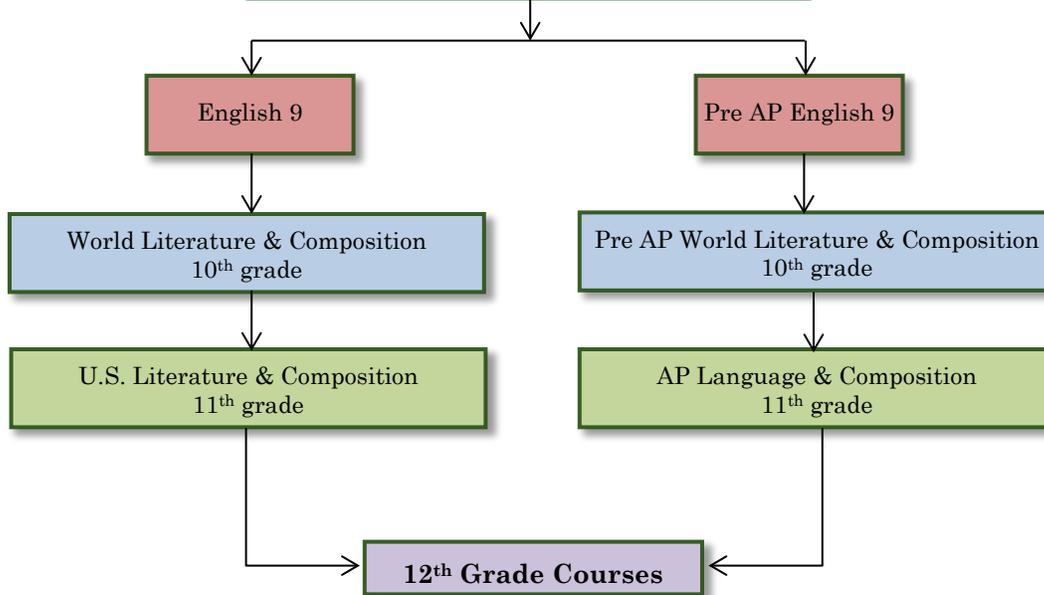
Credits: 5
Prerequisites: Gourmet Foods
Meets requirements: Fine & Applied Arts
Open to Grades: 10, 11 & 12

If you are the kind of person who...thrives on cooking for your friends, wants everyone to come to your house for dinner, feels like you have more party food ideas than you could ever possibly execute in your own home - Advanced Gourmet/Catering II is where you need to be. This course discusses in detail the critical aspects of management involved in running a catering business like basic food safety practices, party planning, cooking for a crowd, planning meals, what kind of kitchen you will need, dealing with customers, understanding how to price your services, and moving the food safely from one location to another. If you are passionate about food and you feel like you have what it takes to start your own catering business, this course can help you understand the critical steps involved in starting off on the right foot. You will be a part of managing several events throughout the semester to harness your skills in this exciting career field. FCCLA (Family, Career, and Community Leaders of America) will be incorporated in this class. FCCLA is a national Student Leadership Organization that provides personal growth, leadership development and career preparation opportunities for students in Family and Consumer Sciences education. Students will have opportunity to compete at the state level by being an active FCCLA member. **There is a lab fee for this course.**

Language Arts

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.

Recommended Sequence of Classes



Language Arts Electives

Advanced Acting and Production
 Advanced Speech
 Argumentation and Debate
 Basic Speech
 Creative Writing
 Drama
 Forensics
 Introduction to Acting
 Journalism 1
 Journalism 2 *
 Short Fiction

Technical Theater Certification
 Theater Certification Workshop
 Theatre Foundations
 Theatre Practicum
 TV Production 2
 Writing for Literary Publication *
 Yearbook Production *
 21st Century Media/Technology and TV
 Production * (this is a paired course)

*** Instructor approval is required**

Front Range Community College (FRCC)

English Composition I
 English Composition II
 Introduction to Literature

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); Lit 115 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 Lit 115 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 Lit 115/Composition II course option	

FRESHMAN COURSES – Select One

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 Pre-AP English 9

Students should be prepared for a rigorous experience
 Credits: 10
 Prerequisites: None
 Meets requirement(s): Language Arts
 Open to Grades: 9

Pre-AP English 9 is designed to emphasize the skills and habits of mind that will be needed to take Advanced Placement English courses in the future. Students will be challenged to do more with literary comparison, composition, and the higher order thinking skills of analysis, synthesis and evaluation. Some ninth grade English course content is covered in greater depth and with more insight.

SOPHOMORE COURSES – Select One

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. Students produce expository, narrative, descriptive, persuasive, technical, and creative writings.

5413 Pre-AP World Literature and Composition

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 AP English courses. Instruction in this course provides students with a foundation in reading and writing skills necessary for completion of AP level courses. The course intensively 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. Students produce expository, narrative, descriptive, persuasive, and technical writing.

JUNIOR COURSES – Select One

5861 AP Language and Composition

Credits:	10
Prerequisites:	World Literature & Composition or Pre-AP World Literature & Composition
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 the course is taught thematically rather than chronologically.

SENIOR COURSES – Select One

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: also includes a full length documented research paper on a topic of the student's choosing.**

5860 AP Literature and Composition

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 Pre-AP 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. **At FRHS: This is a rigorous course taught at a college level. Students should not register for this course unless they have strong skills in reading and writing and a strong work ethic.**

ELECTIVE COURSES

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.

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.***

5270FR 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 A and B (5720.)***

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.

5130 Yearbook Production

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

A semester long course. 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.

5530 Short Fiction

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

In this class, the study of short fiction as a literary form strives to help students widen their perspectives. Students will explore ways in which literature reflects the human condition, while stressing critical and analytical thinking. Students will review the basic characteristics of fiction as well as develop effective communication skills by completing various writing assignments and creative projects.

5740 Writing for Literary Publication

Credits:	5
Prerequisites:	Journalism I OR Creative Writing HS English and Teacher approval
Meets requirement(s):	Language Arts
Open to Grades:	10, 11 & 12

This course is a workshop in which students analyze, critique, and discuss original student writing. Students may serve as the editorial literary magazine. This class will include editing and publishing skills, board, and selecting material for publication in the school's literary magazine. Prerequisite: a grade of a B or an A in Creative Writing (5220) or instructor's approval. ***At FRHS students in this class are responsible for the production of Fossil Ridge's literary magazine, Graffiti. Students will write pieces of their own to contribute, gather writing and artwork from the student body, design layout, and sell advertising. As a final project for the class, students will publish our literary magazine, Oridgeinal. Suggested skills: are Dreamweaver, InDesign, Fireworks, and basic word processing. Class limit: 15***

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,

5910 Forensics continued...

interpretation of dramatic literature, interpretation of humorous literature, or interpretation of poetry. **FRHS requires attendance in Forensics competitions as a component of this class.**

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. **FRHS requires attendance in Forensics competitions as a component of this class.**

5275 21st Century Media / Technology

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

This semester class will focus on ways to deliver information to the public such as through the mediums of newspapers, television, websites, blogs, podcasts and videos. The course will guide students in the use of photography, computers, video equipment and other technology used to produce and communicate information. **At FRHS: This is a partner course to Television Production (5290).**

5071 Best Buddies 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.

5227 Introduction to Acting

Credits: 5
Prerequisites: None
Meets requirements: Fine & Applied Arts
Open to Grades: 9, 10, 11 & 12

This one semester class emphasizes acting skills such as improvisation, scene work, oral interpretation and reader's theater. Students learn techniques for confidence on stage: relaxation, imagination. **At FRHS this is the first course in the drama sequence class offerings.**

5227 Introduction to Acting continued...

Students must be enrolled or have taken any FRHS drama class to audition for the school fall and spring productions or to attend the State Conference.

5229 Theatre Foundations

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

The basic components of this course are: the study of the literature of the theater, reading and analyzing plays, performing scenes and exploring stagecraft techniques. **At FRHS this is the second course in the drama sequence of class offerings. Students must be enrolled or have taken any FRHS drama class to audition for the school fall and spring productions or to attend the State Conference.**

1373 Acting in Film

Credits: 10
Prerequisites: Theatre Foundations
Meets requirement(s): Fine & Applied Arts
Open to Grades: 9, 10, 11 & 12

This year long 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 is an option for the third course in the drama sequence. Students must be enrolled or have taken any FRHS drama class to audition for the school fall and spring productions or to attend the State Conference.**

5240 Advanced Acting and Production

Credits: 5
Prerequisites: Theatre Foundations and Teacher approval
Meets requirement(s): Fine & Applied Arts
Open to Grades: 9, 10, 11 & 12

This one semester course requires instructor approval. Auditions and/ or portfolios may be required. Students' skills are enhanced through practice and performance. **At FRHS this is an option for the third course in the drama sequence of class offerings. Students must be enrolled or have taken any FRHS drama class to audition for the school fall and spring productions or to attend the State Conference.**

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.

1374 Film Studies: Introduction to Film Analysis

Continued...

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 may need to purchase one novel – not to exceed \$20.**

5239 Technical Theater Certification

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

This multi-stage workshop is designed to give students the opportunity to be certified for the operation of specific equipment in the performance halls. Demonstrations of proficiency are required. Further information is available in the theater department of each high school. **At FRHS students will learn the principles of design for sets, costumes, lighting and sound. This class will be responsible for the design and execution of production designs for the fall and spring plays.**

5231 Theater Practicum (fall play)

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

Theatre Practicum involves many advanced aspects of theatre: acting, directing, set construction and design, lighting, sound, and play writing. This class places emphasis on the student as worker. Prior approval and final evaluation by the instructor is required. **At FRHS: Students may NOT add this course to their schedules. Students will be selected for independent study by the instructor.**

5237 Musical Theatre Production (spring musical)

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

This one semester class is an interdisciplinary course designed to develop skills in various aspects of producing a major musical. It is open to students with a variety of interests including singing, acting, dancing, instrumental music, technical theatre and marketing. Auditions, portfolios and/or resumes may be required. Instructor approval required. **At FRHS: Students may NOT add this course to their schedules. Students must audition or apply.**

5290 Television Production

Credits: 5
Prerequisites: 21st Century Media/Technology
Meets requirement(s): Fine & Applied Arts
Open to Grades: 9, 10, 11 & 12

Television Production involves students in the study of the history of radio and television, and in television program production. The operation of technical equipment and other support activities provides training for students to produce spot announcements, commercials, news shows, and a final TV product. Emphasis is on production for the real world, and on the building of writing and presentation skills. **At FRHS: This is a partner course to 21st Century Media/Technology (5275).**

5291 Television Production 2

Credits: 5
Prerequisites: Television Production and Teacher approval
Meets requirement(s): Language Arts
Open to Grades: 10, 11 & 12

This is the second semester of Radio and TV. To enroll, students must have completed course 5290 and have instructor approval.

5292 Television Production 3

Credits: 10
Prerequisites: Television Production 2 and Teacher approval
Meets Requirement(s): Language Arts
Open to Grades: 11 & 12

This course will consist of 2 major portions: a semester with weekly episodes of a series and a semester of class-selected special projects. Unlike Television Production II, neither of these will be completed in small groups. Instead the whole class will fill each role of a single production on a rotating basis. This more closely represents professional film and TV productions. Television Production II students who want to continue their studies in narrative (storytelling) productions and specialize in specific roles (e.g. Cinematography, sound design etc.), would gain much from this class.



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.

9325CEFRCC FRCC English Composition 1

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.

9324 CEFRC FRCC English Composition 2

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.

9330CEFRCC FRCC Intro to Literature 1

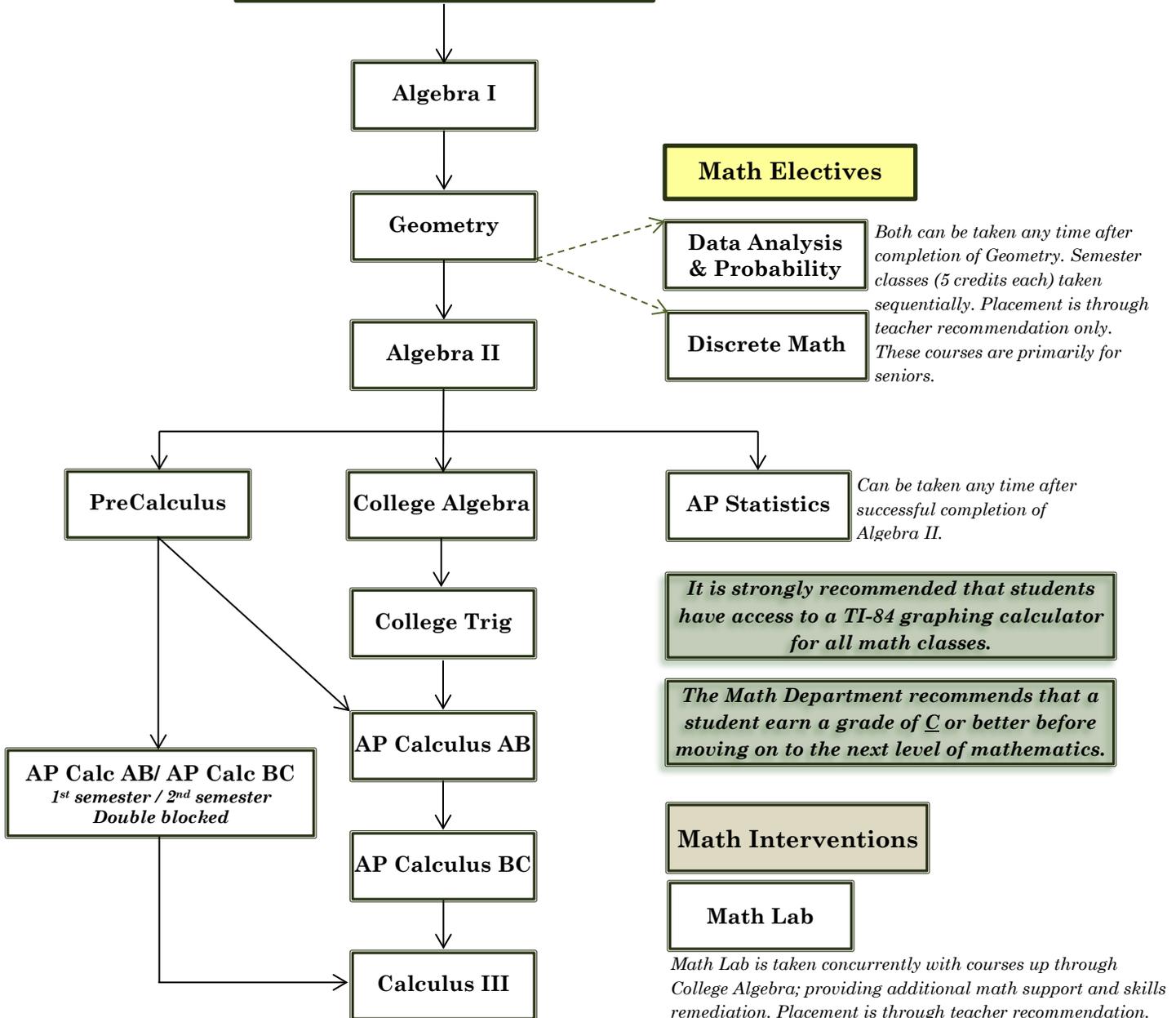
Credits: 5
Prerequisites: None
Meets requirements: Language Arts

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.

Mathematics

Mathematics Scope and Sequence at Fossil Ridge High School

Math Course Offerings



Mathematics

Poudre School District Pathways in Secondary Math

MATH PLACEMENT GUIDELINES

Student placement in math courses will be based on teacher recommendations for individual students.

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.

6230 Algebra 1

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

Basic concepts and properties of algebra are introduced early to prepare students for equation solving. Concepts and skills are introduced algebraically, graphically, numerically, and verbally. As a result, the student will be able to communicate mathematically, make connections within algebra, and between algebra and other disciplines. To address district and state standards, this course interweaves mathematical topics of algebra, geometry, statistics, probability, number systems, and measurement. Algebra 1 explores rational numbers, equations, proportions, radicals, Pythagorean Theorem, inequalities, functional relationships, linear functions and models, probability, data analysis, exponents, systems of equations, polynomial functions and quadratic functions. Upon successful completion, students will progress to Geometry.

6240 Geometry

Credits: 10
Prerequisites: Math Teacher recommendation
Meets requirement(s): Mathematics
Open to Grades: 9, 10, 11 & 12

Geometry concepts and logical reasoning are emphasized, while measurement and applications are integrated to motivate students via real-world connections. As a result, students will be able to communicate mathematically, make connections within geometry, and between geometry and other disciplines. To address district and state standards, this course interweaves mathematical topics of algebra, geometry, statistics, probability, number systems, and measurement. Geometry explores reasoning and proof, parallel and perpendicular lines, triangle congruency and relationships, right triangle relationships and trigonometry, quadrilaterals, similarity, area, volume, circles, and transformations. Upon successful completion, students will progress to Algebra 2.

6250 Algebra 2

Credits: 10
Prerequisites: Math Teacher recommendation
Meets requirement(s): Mathematics
Open to Grades: 9, 10, 11 & 12

This course is a further exploration of the algebra of the real number system with an extension to the complex system, as well as continued development of problem-solving skills. As a result, students will be able to communicate mathematically, make connections within algebra, and between algebra and other disciplines. This course interweaves mathematical topics of algebra, geometry, statistics, probability, number systems, and measurement. Algebra 2 explores functional relationships, linear systems of equations, matrices, quadratic functions, polynomial functions, radical functions, exponential and logarithmic functions, rational functions, probability and statistics, sequences and series, and trigonometry. Upon successful completion, students can progress to either Pre-Calculus or AP Statistics. ***At FRHS: Students can also progress to College Algebra.***

6275 College Algebra

Credits: 10
Prerequisite: Math Teacher recommendation
Meets requirement(s): Mathematics
Open to Grades: 9, 10, 11 & 12

Math College Algebra is designed to allow deeper analysis and extension of Algebra topics. College algebra is the first half of a post-Algebra 2 class that begins to bridge students to Calculus topics. Upon successful completion, students will progress to College Trigonometry & Analytic Geometry. ***This course may be taken for concurrent enrollment credit through C.U. Succeed.***

6276 College Trigonometry & Analytic Geometry

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, 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.

6280 Pre-Calculus

Credits:	10
Prerequisites:	Math Teacher recommendation
Meets requirement(s):	Mathematics
Open to Grades:	9, 10, 11 & 12

Math Pre-Calculus is the post-Algebra 2 class 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. Pre-Calculus explores advanced algebra topics such as polynomial, rational, exponential, and logarithmic functions; numerical and analytical trigonometry; vectors; polar coordinates; analytic geometry; sequences and series; and mathematical induction.

6295 AP Statistics

Credits:	10
Prerequisites:	Math Teacher recommendation
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.

6290 AP Calculus AB

6291 AP Calculus BC

Credits:	10 (per course)
Prerequisites:	Pre-Calculus or Equivalent
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. This course will help prepare the student to take the AP (Advanced Placement) BC Calculus test. **AP Calculus AB may be taken for concurrent enrollment credit through C.U. Succeed.**

6290 AP Calculus AB /6291 AP Calculus BC

Credits:	20 for entire year – double block
Prerequisites:	Pre- Calculus or Equivalent
Meets requirement(s):	Math
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. This course will help prepare the student to take the AP-BC Calculus test. **This course may be taken for concurrent enrollment credit through C.U. Succeed for both AP Calculus AB and AP Calculus BC credit.**

6297 Calculus 3

Credits:	10
Prerequisites:	Calculus AB and 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. **This course may be taken for concurrent enrollment credit through C.U. Succeed.**

6146 Data Analysis & Probability

Credits:	5
Prerequisite:	Math Teacher recommendation
Meets requirement(s):	Mathematics
Open to Grades:	Teacher recommendation only

Data Analysis & Probability is a semester long course centered around 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 parameters and testing hypotheses.

6246 Discrete Mathematics

Credits:	5
Prerequisites:	None
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.

Music

Fossil Ridge High School is proud to support a large, successful, and active Music Department. Students and parents are highly encouraged to *visit the [Music Department pages of the FRHS website](#)* for audition and placement information or contact the specific program directors directly with questions. 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.

Daniel Berard <i>Director of Bands</i> 488-6285 dberard@psdschools.org	Blake Unger <i>Asst. Director of Bands</i> 488-6419 bunger@psdschools.org	John Garner <i>Director of Choirs</i> 488-6287 jgarner@psdschools.org	Louis Silvestri <i>Director of Orchestras</i> 488-6286 lsilvest@psdschools.org
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CHOIR

2750 Women's Choir

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

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. **At FRHS: Women's Choir is open for all female voices. The women's Choir is designed to give students with an interest in singing an opportunity to explore the singing voice through the performance of quality choral literature, and will include the study of the vocal mechanism, music theory, and history. This class will provide a strong choral foundation that will enable students to confidently transition to a Select Choir. Choirs perform at various events throughout the year that will require time outside of the school day. Attendance at all rehearsals and performances is required.**

2760 Men's Choir

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

Men's Choir is open for all male voices. The chorus performs traditional and modern music preparing students for advanced music study. The chorus performs at school concerts throughout the year and in the community. **At FRHS: Men's Choir is designed to give students with an interest in singing an opportunity to explore the singing voice through the performance of quality choral literature,**

2760 Men's Choir continued...

and will include the study of the vocal mechanism, music theory, and history. This class will provide a strong choral foundation that will enable students to confidently transition to a Select Choir. Choirs perform at various events throughout the year that will require time outside of the school day. Attendance at all rehearsals and performances is required.

2711 Select Women's Choir

Credits: 10
 Prerequisites: Audition or placement by Choral Director
 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 women's 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: the Select Women's Choir will perform repertoire of the highest quality, and will include the study of the vocal mechanism, music theory and history. Placement into Select Women's Choir is through audition with the Choir Director. Choirs perform at various events throughout the year that will require time outside of the school day. Attendance at all rehearsals and performances is required.**

2713 Select Choir

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

Membership in these groups is by auditions 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: the Select Mixed Choir will perform repertoire of the highest quality, and will include the study of the vocal mechanism, music theory and history. Placement into Select Mixed Choir is through audition with the Choir Director. Choirs 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

Credits:	10
Prerequisites:	Audition or placement by Choral Director /concurrent enrollment in a concert choir class
Meets requirement(s):	Fine & Applied Arts
Open to Grades:	10, 11 & 12

At FRHS: Placement into Jazz Choir is through audition with the Director, and students must be a member of one of the Concert groups. Students are required to have a solid background in basic choral techniques. Students will furnish all of the performance attire. Choirs perform at various events throughout the year that will require time outside of the school day. Attendance at all rehearsals and performances is required.

ORCHESTRA

2692 Orchestra 9

Credits:	5
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 intermediate 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: Orchestras perform at various events throughout the year that will require time outside the school day. Attendance at all rehearsals and performances is required.**

2865 Concert Orchestra

Credits:	10
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 as well as 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. Performances are required. **At FRHS: the 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. Orchestras perform at various events throughout the year that will require time outside of the school day. Attendance at all rehearsals and performances is required.**

2860 Symphony Orchestra

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

This course is designed for intermediate as well as 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. Performances are required. **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.**

BAND

2800 Concert Band

Credits:	10
Prerequisites:	Previous instrumental experience and/or placement by Band Director
Meets requirement(s):	Fine & Applied Arts
Open to Grades:	9, 10, 11 & 12

2800 Concert Band continued...

Instructor approval is required. Available to all 9th-grade students with previous band experience and 10th, 11th - and 12th -grade students who have not reached the proficiency level required for the Select Concert Band. **At FRHS: Concert Band is comprised of wind and percussion students who choose to participate in Band that are either beginning their Band experience or have not yet demonstrated the musical proficiency and instrumental skills required for placement into the advanced performing ensembles of the Band program. Focus will be on individual skill development and fundamental musicianship through the study of ability-appropriate repertoire. Attendance at all rehearsals and performances is required. Participation in the Concert Band carries with it the responsibility of attendance at ALL scheduled rehearsals and performances, and will involve time outside of the regular school day. All students involved in the Concert Band will also be enrolled in the FRHS Marching Band (see course description) during first semester, and the FRHS Pep Band (see course description) during the second semester. These courses DO NOT meet during the school day, but are an extension of the Concert Band curriculum.**

2805 Symphonic Band

Credits: 10
Prerequisites: previous experience in Band and/or placement by Band Director
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 is comprised of wind and percussion students who choose to participate in Band while developing the musical proficiency required for Wind Ensemble or Select Symphonic Band. The Symphonic Band will perform wind band literature of the highest quality, and will include the study of music theory, history, and composition. **Participation in the Symphonic Band carries with it the responsibility of attendance at ALL scheduled rehearsals and performances, and will involve time outside of the regular school day. All students involved in the Symphonic Band will also be enrolled in the FRHS Marching Band (see course description) during first semester, and the FRHS Pep Band (see course description) during the second semester. These courses DO NOT meet during the school day, but are an extension of the Symphonic Band curriculum.**

2795 Wind Ensemble

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

2795 Wind Ensemble continued...

Wind Ensemble is comprised of the most advanced wind and percussion students. The Wind Ensemble will perform wind band literature of the highest quality, and will include the study of music theory, history, and composition. Participation in the Wind Ensemble 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: All students involved in the Wind Ensemble will also be enrolled in the FRHS Marching Band (see course description) during first semester, and the FRHS Pep Band (see course description) during the second semester. These courses DO NOT meet during the school day, but are an extension of the Wind Ensemble curriculum.**

2806 Select Symphonic Band

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

At FRHS: the Select Symphonic Band is comprised of intermediate wind and percussion students who choose to participate in Band while developing the musical proficiency required for Wind Ensemble. The Select Symphonic Band will perform wind band literature of the highest quality, and will include the study of music theory, history, and composition. **Participation in the Select Symphonic Band carries with it the responsibility of attendance at ALL scheduled rehearsals and performances, and will involve time outside of the regular school day. All students involved in the Select Symphonic Band will also be enrolled in the FRHS Marching Band (see course description) during first semester, and the FRHS Pep Band (see course description) during the second semester. These courses DO NOT meet during the school day, but are an extension of the Select Symphonic Band curriculum.**

2830 Select Stage Band – Jazz Ensemble 1

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

Select Stage Band – Jazz Ensemble 1 is available to students wishing to increase their knowledge and abilities in music of jazz, rock, Latin, and other “popular” music styles. Placement into Select Stage Band – Jazz Ensemble 1 is through audition with the Director, and students must be a member of a concert band or show proficiency on the piano, guitar, or bass. **At FRHS, the Select Stage Band - Jazz Ensemble 1 will provide students the opportunity to experience the different styles of jazz through performance and academic study. Participation in Jazz Ensemble 1 carries with it the responsibility of attendance at ALL scheduled rehearsals and performances, and will involve school and community performances outside the regular school day. Jazz Ensemble 1 will be scheduled at an arranged time after school, (time TBA outside of the school day), and will not take up an additional slot in the student’s course load.**

2840 Stage Band – Jazz Ensemble 2

Credits:	10
Prerequisites:	Audition/written teacher approval
Meets requirement(s):	Fine & Applied Arts
Open to Grades:	9, 10, 11, & 12

Stage Band – Jazz Ensemble II is available to students wishing to increase their knowledge and abilities in music of jazz, rock, Latin, and other “popular” music styles. Placement into Stage Band – Jazz Ensemble 2 is through audition with the Director, and students must be a member of a concert band or show proficiency on the piano, guitar, or bass. **At FRHS: the Stage Band - Jazz Ensemble 2 will provide students the opportunity to experience the different styles of jazz through performance and academic study, while developing the musical proficiency needed for Jazz Ensemble 1. Participation in Jazz Ensemble 2 carries with it the responsibility of attendance at ALL scheduled rehearsals and performances, and may involve school and community performances outside the regular school day. Jazz Ensemble 2 will be scheduled at an arranged time after school, (Time TBA outside of the school day), and will not take up an additional slot in the student’s course load.**

2810 Marching Band

Credits:	5 (<i>1st semester only</i>)
Prerequisites:	Concurrent enrollment in Band class
Meets requirement(s):	Elective/one-time 2.5 credit waiver toward Wellness graduation requirement upon successful completion of the class
Open to Grades:	9, 10, 11 & 12

Students enrolled in Concert Band, Symphonic Band, Select Symphonic Band, or Wind Ensemble are automatically enrolled in the Marching Band. Students interested in performing with the Color Guard are also enrolled in Marching Band. **At FRHS: students will be exposed to the Marching Band performance idiom at the highest level. The Marching Band performs at various school and community events, as well as competitions throughout the course of the first quarter of the school year only. Participation in the FRHS Marching carries with it the responsibility of attendance at ALL scheduled rehearsals and performances, and WILL involve time outside of the regular 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 Marching Band season (approximately 1st quarter of the year). Marching Band does not take up an additional period during the academic day, but is an extension of the regular Band curriculum.**

2820 Pep Band

Credits:	2 (<i>2nd semester only</i>)
Prerequisites:	Concurrent enrollment in Band class
Meets requirement(s):	Fine & Applied Arts
Open to Grades:	9, 10, 11 & 12

2820 Pep Band continued...

Membership in a concert band or other music group is required. **At FRHS: participation in Pep Band is required of all Band students, and is an extension of the Band curriculum. The Pep Band is active at school events (schedule TBA) during the third quarter of the year only, and does not take up an additional period during the academic day.**

MUSIC ELECTIVES

2770 AP Music Theory

Credits:	10
Prerequisites:	Application/Teacher approval
Meets requirement(s):	Fine & Applied Arts
Open to Grades:	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. With principal approval this course may replace graduation requirement #10. See your counselor for waiver form.

2985 Music Theory and Composition

Credits:	5 (semester course)
Prerequisites:	AP Music Theory, Application/Teacher approval
Meets requirement(s):	Humanities
Open to Grades:	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 have completed AP Music Theory who are interested in in-depth learning about composing and arranging music, the fundamentals of harmony, melody, and musical forms. Course may be registered for two semesters.**

2512 Music Production and Technology

Credits:	5
Prerequisites:	None
Meets requirement(s):	Fine & Applied Arts
Open to Grades:	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 16 students per section per semester.**

2513 Music Production and Technology 2

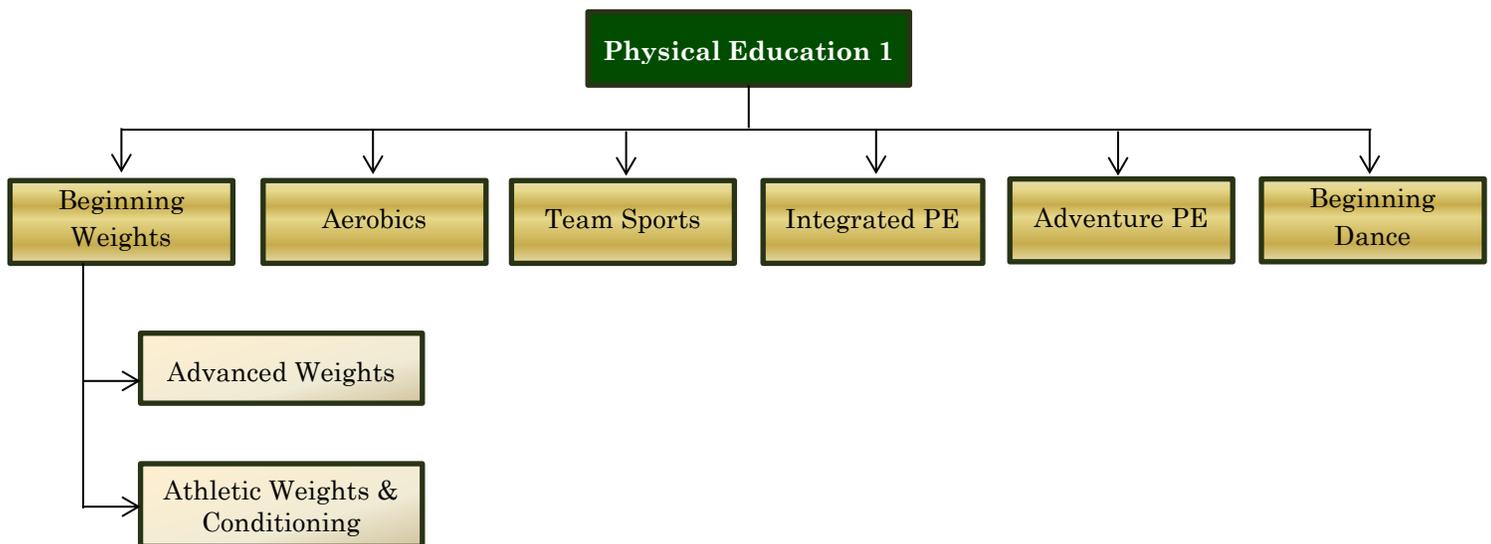
Credits: 5
Prerequisites: Music Production I and Teacher placement
Meets requirement(s): Fine & Applied Arts
Open to Grades: 11 & 12

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 16 students per section per semester.**

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 12.5 credit hours of Wellness/PE. **Physical Education 1 is a prerequisite for ALL other PE classes.** Not all options will be offered each

Course Offerings & Sequence



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.

3072 Health

Credits: 5
 Prerequisites: None
 Meets requirement(s): 2.5 Health Education/Elective
 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 is designed to emphasize a positive approach toward developing sound healthy habits and decision making. Topics of study include those aspects of wellness reflected in the Colorado Academic Standards for 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.

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: 11 & 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.

Athletic Weights and Conditioning (Co-Ed only) **3066 (fall) or 3068 (spring)**

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

This class will provide the opportunity to explore the benefits of physical activities such as weight lifting, aerobics, wall climbing, traversing, walk/run, and rollerblading. An appreciation of physical fitness and wellness which includes muscle strength, cardio-respiratory endurance, and flexibility; and encourages a positive attitude toward exercise. **At FRHS: The design of this course is to help the specific needs of athletes and or students who may want to train at a higher intensity. The implementation of skills that are physiologically specific to sport will be applied to this class (Olympic lifts, agility, speed development and conditioning). Students who take this class will need a strong background in both sport skill and the development of their athleticism. Athletes are encouraged to take this class to support fitness and sport-specific goals.**

Athletic Weights and Conditioning - Female only **3066F (fall) or 3068F (spring)**

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

Athletic Weights and Conditioning - Female only **3066F (fall) or 3068F (spring) continued...**

This class will provide the opportunity to explore the benefits of physical activities such as weight lifting, aerobics, wall climbing, traversing, walk/run, and rollerblading. An appreciation of physical fitness and wellness which includes muscle strength, cardio-respiratory endurance, and flexibility; and encourages a positive attitude toward exercise. **At FRHS: The design of this course is to help the specific needs of athletes and or students who may want to train at a higher intensity. The implementation of skills that are physiologically specific to sport will be applied to this class (Olympic lifts, agility, speed development and conditioning). Students who take this class will need a strong background in both sport skill and the development of their athleticism. Athletes are encouraged to take this class to support fitness and sport-specific goals.**

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 Aerobics

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.

3077 Team Sports

Credits: 5
Prerequisites: Physical Education 1
Meets requirement(s): Wellness
Open to Grades: 10, 11 & 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 sophomores, juniors and seniors to become teaching assistants in adapted physical education. They will be assisting the 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.**

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, geo caching, 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.**

FRHS STEM Academy Structure New and Improved!

9th Grade:

Preferable courses: ESS & Biology (or Pre-AP Biology)
Students will no longer apply for acceptance into the Academy. Science teachers will identify and recommend students to enroll in the STEM Survey class.



10th Grade:

Preferable course: Chemistry

Required course:

#9938 STEM Academy Survey:

- STEM content and careers exploration
- 21st century skills development
- Project Development skills
- Technical Writing
- Practice Capstone Project Proposal
- Students decide a pathway (formerly a strand)

Current Academy Students do not have to take the Survey course – Technical Writing and other courses replace this course.



**11th grade
Computer Strand
Option:**
*Introduction to
Computer Science or
computer elective*

**11th grade
Engineering
Option:**
*2 engineering
electives
AP Physics*

**11th grade
Bioscience option:**
*Biotechnology/Cell
Biology*

Regular Courses
Student opts out or
teacher does not
recommend continuing
in Academy



12th Grade

Required: #9946 STEM Academy Seminar
(Enrollment limited)

Student completes team Capstone Project during Seminar



12th grade
AP Computer Science

12th grade
*Engineering elective or
equivalent*

12th grade
AP Biology

FRHS STEM Academy Structure (continued)

- If an incoming freshman thinks they may want to enroll in the Academy but is not sure they should enroll in both ESS and Biology
- If student does not take ESS & Biology during freshman year it is preferable they take ESS during 9th grade and then take Chemistry **and** Biology during 10th grade.
- A student may wait until 11th grade to take chemistry but it will limit their science options.
- After completing the STEM Survey class a student may decide STEM is not an option for them.
- If a student does not demonstrate the necessary skills to continue in the Academy after their 11th grade year they may be asked to not to enroll in the Seminar class.
- Students will choose a “pathway” after the survey class: Bioscience, Engineering, or Computer Science.
- All students who decide to continue with the Academy after 11th grade will be required to complete a capstone project.
 - The capstone project will be done in teams and those teams can be integrated from students of different pathways.
 - The capstone project does not have to focus on a student’s chosen pathway.
- A student can choose and is encouraged to do an internship or external work experience; however, the Academy will help students find experience but is not responsible for those placements.

9938 STEM Academy Survey

Credits:	5
Prerequisites:	Teacher approval
Meets requirement(s):	Elective
Open to Grades:	10, 11 & 12

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.

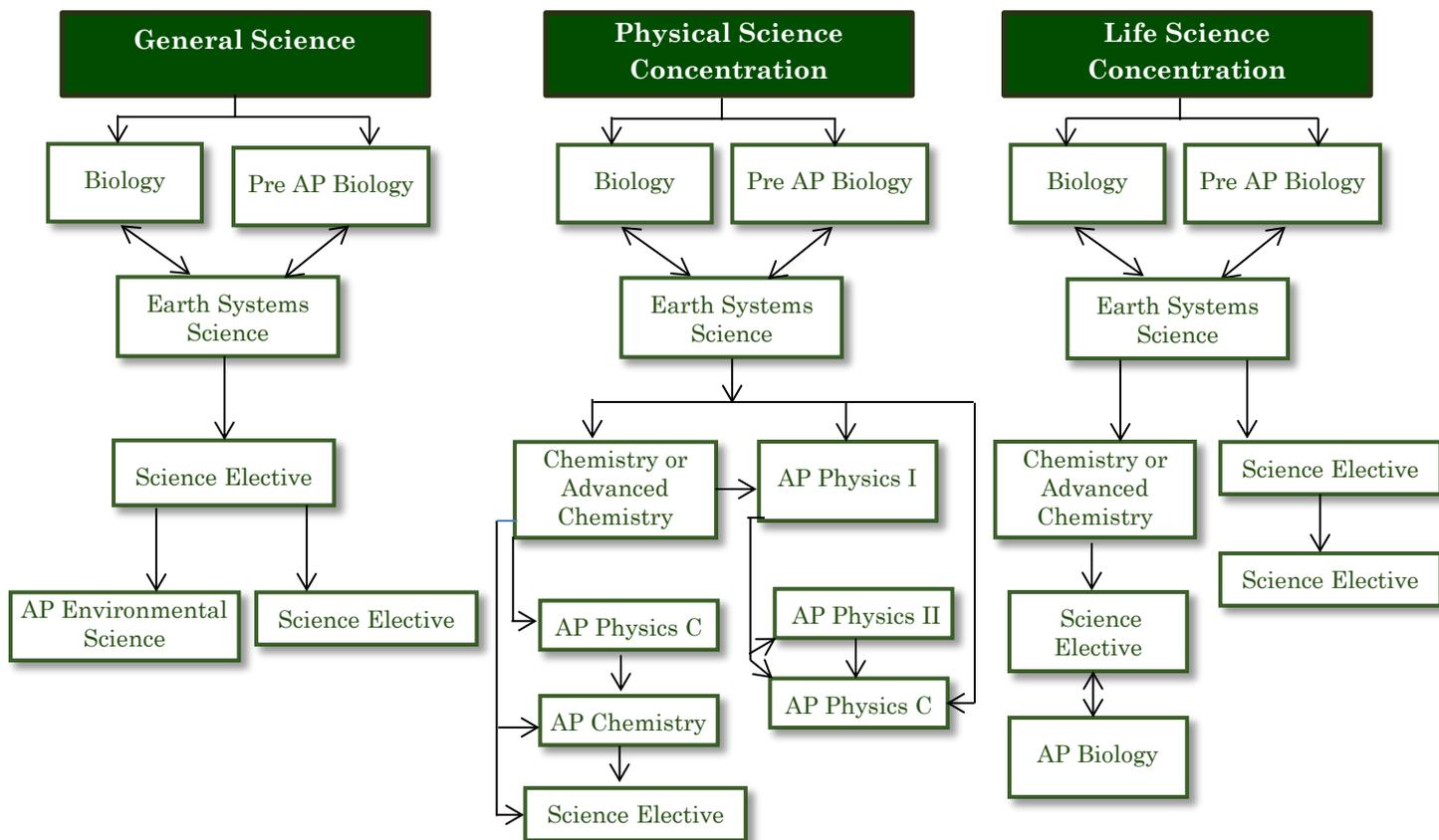
9946 STEM Academy Seminar

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

Science

Fossil Ridge High School Science Pathways



9 th Grade
Biology Pre AP Biology Earth Systems Science

10 th Grade
Earth Systems Science Chemistry Biology Pre-AP Biology Advanced Chemistry AP Physics I Science Elective

11 th Grade
Science Elective

12 th Grade
Science Elective

Science Electives	
Advanced Chemistry Anatomy and Physiology AP Biology AP Chemistry AP Environmental Science AP Physics I AP Physics II	AP Physics C Astronomy Botany, Microbiology & Zoology Cell Biology, Genetics & Biotechnology Chemistry Environmental Science

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, evolution, ecology, and other various topics. **At FRHS: Students will participate in laboratory based activities. Students will pay a lab fee of \$10.**

6709 Pre AP 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. Student must also demonstrate high level technical reading and writing skills for lab reports and assignments. Students will be expected to spend at least 3-5 hours per week learning independently and mastering content outside of class. This class is not required to take AP Biology. Strongly recommended: Grade of "A" in 8th Grade Science; very motivated science student.**

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 life sciences. 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 four main concepts focused on the processes of evolution driving the diversity & unity of life, how biological systems utilize molecular building blocks, how living systems store, retrieve, transmit, & respond to information, & the interactions of biological systems. Successful performance on the national AP Biology exam may result in the granting of college credit at many universities.

6809 Earth Systems Science

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

Earth Systems Science (ESS) is a standards-based physical science course that explores the interactions of the various spheres of Earth (atmosphere, hydrosphere, geosphere, and exosphere) 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 will also apply knowledge to address local and global scientific issues. 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.**

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 or Teacher approval
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 in biology, 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 or Teacher approval
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, propagation techniques, 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.**

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.**

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 utilize ALEKS, an online program, for out of class practice and application of material learned in class. Students must have access to a computer and internet for successful completion of course work. There is a \$40 fee for a subscription to the ALEKS program (subject to change).**

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.**

6822 AP Physics 1

Credits: 10
Prerequisites: Algebra 2 (concurrent) 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. **At FRHS the online program Mastering Physics will be used to support curriculum. A course fee applies for Mastering Physics (currently \$21; subject to change).**

6823 AP Physics 2

Credits: 10
Prerequisites: AP Physics 1
Meets requirement(s): Science
Open to Grades: 11 & 12

AP Physics 2 is equivalent to a second-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 fluid mechanics; thermodynamics; electricity and magnetism, optics; atomic and nuclear physics.

6823 AP Physics 2 continued...

Successful performance on the national AP Physics exam may result in the granting of college credit at many universities. **At FRHS the online program Mastering Physics will be used to support curriculum. A course fee applies for Mastering Physics (currently \$21; subject to change).**

6826 AP Physics C

Credits: 10
Prerequisites: Calculus (concurrent) and also, Physics is recommended
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, electricity and magnetism, and other miscellaneous topics. Successful performance on the national AP Physics exam may result in the granting of college credit at many universities. **At FRHS the online program Mastering Physics will be used to support curriculum. A course fee applies for Mastering Physics (currently \$21; subject to change).**

6770 Environmental Science

Credits: 10
Prerequisites: None
Meets requirement(s): Science
Open to Grades: 9, 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. Good math skills are required. 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 Pre-AP Biology
Meets requirement(s): Science
Open to Grades: 10, 11 & 12

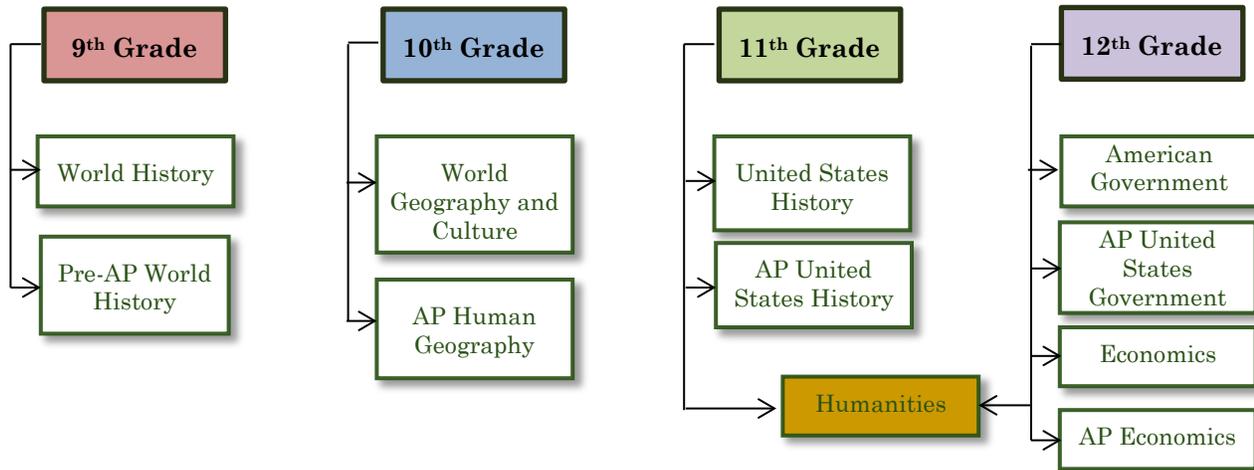
The class will focus on the cell as the basic unit of structure and function for living systems, cell anatomy metabolic processes at the molecular level and cell division. The genetic portion deals with Mendelian genetics, molecular genetics, chromosomal mutation, population genetics and statistical 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.**

6748 Biotechnology **

Credits: 5 (semester course)
Prerequisites: Successful completion of Biology or Pre-AP 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.**

Social Studies



FRESHMAN COURSES – select one

7250 World History

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

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 Pre-AP World History

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

The Pre AP 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. Pre AP 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.

SOPHOMORE COURSES – select one

7210 World Geography and Culture

Credits: 10
 Prerequisites: None
 Meets requirement(s): Social Studies
 Open to Grades: 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. **Student and parent must have an AP Expectations sheet turned in prior to enrollment.**

JUNIOR COURSES – select one

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. **Student and parent must have an AP Expectations sheet turned in prior to enrollment.**

SENIOR COURSES – select one

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

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. **Student and parent must have an AP Expectations sheet turned in prior to enrollment.**

7230 Economics

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

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.

7234 AP Micro Economics

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

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. **Student and parent must have an AP Expectations sheet turned in prior to enrollment.**

7233 AP Macro Economics

Credits: 5
Prerequisites: AP Micro Economics or Economics
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. **Student and parent must have an AP Expectations sheet turned in prior to enrollment.**

HUMANITIES

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 throughout the Christian Middle Ages and European Renaissance and Reformation.

3800 World Humanities Asia

Credits: 5
Prerequisites: None
Meets requirement(s): Humanities
Open to Grades: 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.**

3810 World Humanities Africa: Americas

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

This semester class explores the world views and creative arts of the cultures in Africa and the Americas. The course will include but not be limited to; the study of history,

3810 World Humanities Africa: Americas continued...

philosophy, religion, literature and the arts. Study will include relating events and concepts of Africa and the Americas 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: 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.**

ELECTIVES

7243 AP World History

Credits: 10
Prerequisites: None
Meets requirement(s): Social Studies
Open to Grades: 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 600 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. Additionally, students will practice four main historical skills in the course, including Crafting Historical Arguments from Historical Evidence, Chronological Reasoning, Comparison and

7243 AP World History continued...

Contextualization, and Historical Interpretation and Synthesis. The class will use college-level textbook and additional primary source readings. Students will have the option to earn college credit.

7240 Psychology

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

Student and parent must have an AP Expectations sheet turned in prior to enrollment.

7260 Anthropology

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

The chief objective of Anthropology is to increase the student's awareness of and appreciation for the rich diversity of human behavior and beliefs. The course examines the physical and cultural origins and development of the human species, taking us back in time some three million years. Students will investigate the techniques and evidence used to formulate theories about prehistoric and modern people who possess lifestyles dramatically different from our own. Anthropology is taught from an evolutionary perspective.

7242 Sociology

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



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)

9451 CEFRCC FRCC Intro to Sociology

Credits: 5
Meets requirement(s): Elective

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 course is guaranteed to transfer to all public colleges and universities in Colorado.

Visual Arts

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.

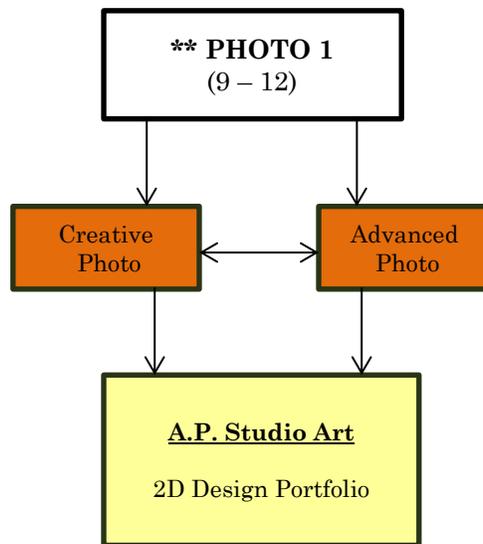
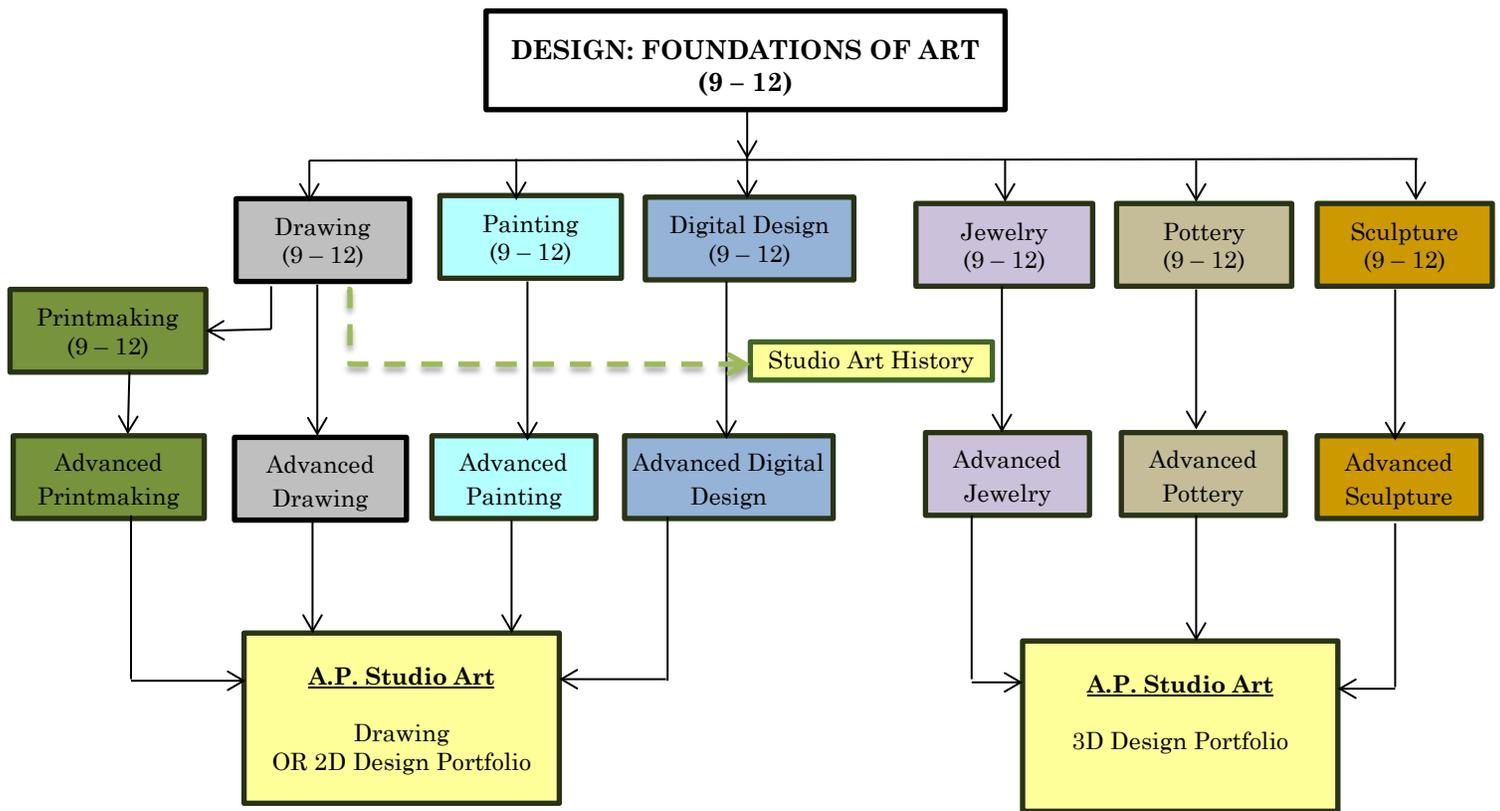
Philosophy and Course Progression

The Design Foundations of Art course is the pre-requisite for all other art courses offered at Fossil Ridge, with the exception of Photography. **Ninth graders who wish to enroll in a studio class in the spring semester must take the Design class first.** At Fossil Ridge, it is our goal to provide students with a solid base for future success. As such, ninth graders are **STRONGLY** encouraged to enroll in the Design class. 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. 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.

Advanced Placement Track

A.P. Studio Art students experience the rigor of a College Level course while still in high school. **OPEN TO SENIORS ONLY**, this year-long course culminates with students submitting a portfolio of 30 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. **AT MINIMUM**, students must 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 art courses as possible.

Student Scenario	Course Recommendation
Interested in AP Studio Art as a senior (yearlong class)	Choose Design: Foundations of Art and 2 levels of a Studio Art class
Interested in submitting a drawing or 2D Design Portfolio (without Photography)	Choose Drawing after taking Design: Foundations of Art
Interested in 3-D art	Choose Pottery, Sculpture or Jewelry after taking Design: Foundations of Art
Interested in Photography	Choose Photo 1 (Note—Design: Foundations of Art is NOT a prerequisite for Photo, but required for AP STUDIO ART.)
Interested in Studio Art History	Choose Design Foundations, and then the first level of any studio courses. (Studio Art History is a “second level” course open to students after taking first level courses. It is NOT a prerequisite for any advanced courses.)



** Please note: Although *Design: Foundations of Art* is NOT a prerequisite for Photography, students must enroll in Design in addition to **BOTH** Creative and Advanced Photography, prior to taking the **A.P. Studio Art** course.

1210 Design: Foundations of Art

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

The student 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 therefore a requirement before taking specialized art classes. The student may explore painting, drawing, sculpture, printmaking, and a sampling of other art classes offered. Art history, critique, and aesthetics are utilized through the use of examples and audio-visual materials. Student supplies, kit and/or fees required. **At FRHS the student fee is approximately \$35.**

1240 Drawing

Credits: 5
Prerequisites: Design: Foundations of Art
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. Student supplies, kit and/or fees required. **At FRHS: Student fee is approximately \$30.**

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. Student supplies kit and/or fees required. **At FRHS: Student fee is approximately \$30.**

1280 Painting

Credits: 5
Prerequisites: Design: Foundations of Art
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.** Student supplies kit and/or fees required. **At FRHS: Student fee is approximately \$40.**

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. Students will continue to explore various media and advanced painting techniques, such as oil and experiment with mixed media. Student supplies, kit and/or fees required.

1290 Printmaking

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

The student may explore the following printing processes: linoleum, woodblock, silkscreen, embossing, monoprinting, intaglio, and collagraph. The printmaking process allows many copies to be pulled from a single original plate or screen. These reproductions may be made on fabric as well as on a variety of papers and other two and three-dimensional materials. A basic knowledge of composition and drawing techniques is required for this class. Drawing is strongly recommended before taking this course. Student supplies kit and/or fees required. **At FRHS: Student fee is approximately \$30.**

1320 Pottery

Credits: 5
Prerequisites: Design: Foundations of Art
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. Student supplies, kit and/or fees required. **At FRHS: Student fee is approximately \$40.**

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. Student supplies, kit and/or fees required. **At FRHS: Student fee is approximately \$40.**

1330 Sculpture

Credits: 5
Prerequisites: Design: Foundations of Art
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. Student supplies kit and/or fees required. **At FRHS: Student fee is approximately \$30.**

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. Student supplies kit and/or fees required. **At FRHS: Student fee is approximately \$40.**

1220 Digital Design

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

The students will be exposed to techniques, equipment, materials and media used in graphic design. The students will be presented with a wide variety of graphic design problems that they must solve. The students will explore the creative approach to design problems using a variety of media and techniques. Drawing is strongly recommended before taking this course. **At FRHS, Students will use the Adobe Creative Suite as well as the software program ArtRage. Student supplies kit and/or fees required, of approximately \$30..**

1292 Advanced Digital Design

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

This course is a continuation of Digital Design and will utilize advanced methodologies relevant to the field. This course is for the student who is interested in continuing to explore advanced media and techniques utilized in graphic design. Student supplies kit and/or fees required. **At FRHS: Student fee is approximately \$15.**

1270 Jewelry

Credits: 5
Prerequisites: **9th graders** must take Design: Foundations of Art prior to enrolling in this class
Meets requirement(s): Fine & Applied Arts
Open to Grades: 9, 10, 11 & 12

The students will observe and interpret metals and nonmetals through experimentation. Techniques such as sawing, piercing, soldering, band rings, stone setting, glass fusing, and surface enrichment will all be explored. Other beginning jewelry techniques may be explored depending on time, student interest or need. Metal (nickel, brass, copper and sterling silver), wire and stones may be used. Planning of original designs and craftsmanship are emphasized. *Design: Foundations of Art* is strongly recommended before taking this course. Student supplies kit and/or fees required. **At FRHS: Student fee is approximately \$40.**

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. Student supplies kit and/or fees required. **At FRHS: Student fee is approximately \$40.**

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 35mm b/w film, digital photography & an introduction to Adobe Photoshop. Emphasis will be on creativity and photography as a fine art medium. **STUDENTS NEED TO FURNISH THEIR OWN 35 MM SLR AND DIGITAL CAMERAS.** Photography 1 at the Middle School level does not take the place of this class. Student supplies kit and/or fees required. **At FRHS: Student fee is approximately \$35.**

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 Photoshop CS as well as applying creative techniques to black and white film photography. Student fee is approximately \$35.**

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 approximately \$35.**

1340 Studio Art History

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

This course is designed for the serious upper-level art student. It is designed to utilize the student's artistic talent as an avenue to acquire effective knowledge of art history and appreciation. The course will provide studio work each week that will utilize skills and techniques learned in previous courses such as Design: Foundations of Art, Drawing, Painting, etc. Work will directly relate to the historical period of time being presented through lecture, slides, films, discussion, research, etc. General studio work will include drawing, painting and sculpture, in conjunction with a chronological survey of artists and periods of art. **There is a student fee for this class of approx. \$35. At FRHS see Mrs. Lemmon for more information.**

1484 AP Studio Art

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

Advanced Placement Studio Art 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 Studio Art courses require instructor approval before enrolling. **At FRHS student fee is approximately \$40.**

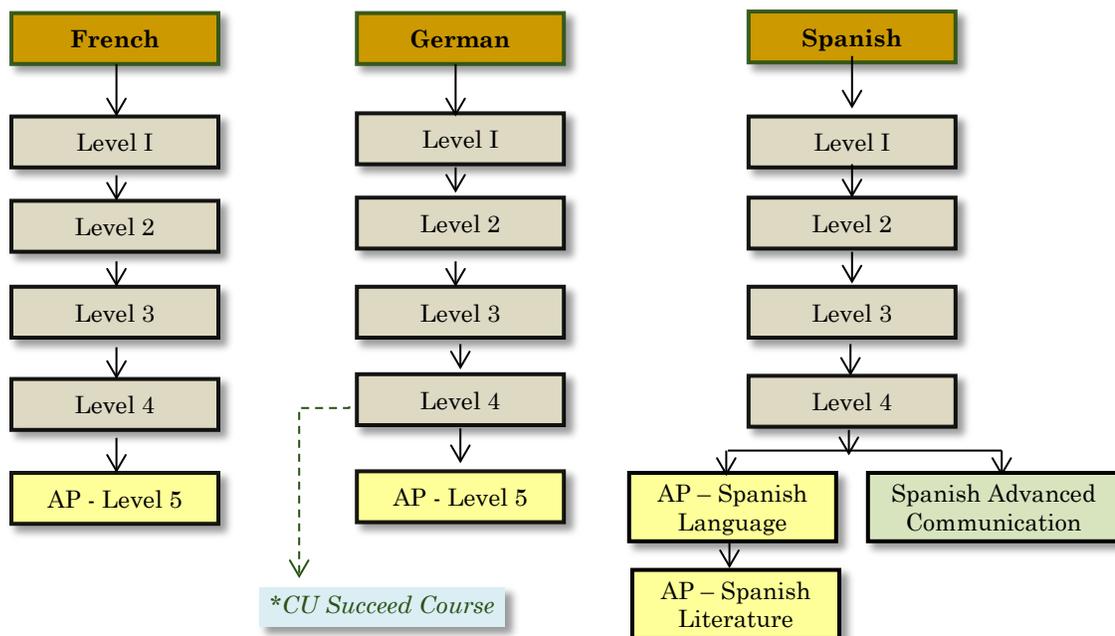
World Languages

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 36 weeks, and are worth 5 credits per semester. 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.**

4710 French Level 1**4720 German Level 1****4730 Spanish Level 1**

Credits: 10
 Prerequisites: None
 Meets requirement(s): World Language/Culture

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!

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): World Languages/Culture

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!

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): World Language/Culture

4790 French Level 3**4800 German Level 3****4810 Spanish Level 3 (continued)**

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!

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**4830 German Level 4 – this is a CU Succeed Course****4840 Spanish Level 4**

Credits: 10
 Prerequisites: Level 3 with grade of 'C' or better and/or Level 3 Teacher approval
 Meets requirement(s): World Language/Culture

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!

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): World Language/Culture

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.

4850 AP French Level 5

4860 AP German Level 5

4871 AP Spanish Level 5 (continued)

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!

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.

4872 AP Spanish Literature

Credits: 10
Prerequisites: Level 4 or Teacher approval
Meets requirement(s): World Language/Culture

AP Spanish Literature is intended for qualified students who wish to complete studies in secondary school comparable in difficulty and content to such advanced-level college courses as Spanish Composition and Conversation or an Introduction to Latin American or Peninsular Literature. The AP Spanish Literature course more closely approximates an introductory literature course typically taught at the college level. The reading list introduces students to the diverse literature written in Spanish and thus helps them reflect on the many voices and cultures included in this very rich literature. Those who perform satisfactorily on the AP Spanish Literature Exam may receive credit for a comparable college-level literature course. The AP Spanish Literature class is a logical sequence after AP Spanish Language as well as an alternative for students whose language skills are superior and/or have language studies prior to high school.

***4886 Spanish Communication Literacy**

** 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): World Language/Culture

This course allows students with developed Spanish language skills to improve and enrich reading comprehension skills and strategies through Spanish literature selections. They also refine and improve skills to write for a wide range of purposes and a variety of audiences. Students gain an enhanced understanding of fundamentals of Spanish grammar and exposure to Spanish-speaking cultures and communities. Students in this course address the World Language standards of communication, culture, connections, comparisons, and communities.

***4886 Spanish Communication Literacy (continued)**

El curso les ofrece a los estudiantes con habilidades desarrolladas en español la oportunidad de mejorar y enriquecer la lectura y escritura por medio de la literatura. Además, desarrollan y mejoran destrezas que les permiten escribir para una variedad de propósitos y lectores. Los estudiantes mejoran su entendimiento de la gramática española y las culturas y comunidades hispanohablantes. El curso se enfoca en los estándares de Idiomas Mundiales de comunicación, cultura, conexiones, comparaciones y comunidades.



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 the guide.

4820CEFRCC French Level III

Credits: 3
Meets requirement(s): World Language/Culture

FRE 211: Continues French I, II and III in the development of increased functional proficiency in listening, speaking, reading and writing the French language.

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SaberCats Recycle

