

# Wellington High School

2025-2026 Curricular Programming Guide



## Mission

We exist to ignite curiosity, to nurture resiliency,  
and to empower lifelong learning.

## Core Values

**Community** ~ Prioritize relationships and collectively own outcomes

**Innovation** ~ Challenges drive change

**Equity** ~ Everyone has what they need to be successful

**Opportunity** ~ The choice to pursue and engage in our passions

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# INDIVIDUAL CAREER & ACADEMIC PLAN (ICAP)

An [Individual Career and Academic Plan \(ICAP\)](#) is an electronic record of the multi-year, dynamic process that intentionally guides students as they explore career, academic, and postsecondary opportunities. With the support of adults, students develop awareness, knowledge, attitudes, and skills to create their own meaningful pathways to be career and college ready.

The ICAP process at Wellington Middle-High School is designed to help students explore what is important to them, learn where their natural strengths lie, and identify how they can apply their own values into work that they will derive a sense of purpose and meaning from throughout their life. Students will develop a vision for their life while learning practical steps that they can take towards making that vision a reality.

By graduation, students at WMHS will demonstrate knowledge and skills specific to employment in a range of occupations in a career field. Throughout high school, students will be exposed to opportunities to gain career awareness, explore career options, apply learning through practical experience and train for employment. Students will be able to articulate the type of postsecondary education and training required for their chosen career field.

At Wellington Middle-High School, students will begin the ICAP process in 6th grade. With the help of parents, teachers, and counselors, students have the opportunity to update their ICAP each year through the school's curriculum. Students will utilize [Xello](#) to take interest-inventories, research and learn about different career pathways, and research post-secondary education programs that align with their goals. Practical steps will be taken based on these goals, including course planning for middle and high school and identifying experiences and training that can further clarify their path.

## HIGH SCHOOL GRADUATION REQUIREMENTS

To receive a high school diploma, students must earn **240 credits**, **AND** **complete one of the following** post-secondary readiness measures:

**A) Meet or exceed minimum scores in Mathematics or English on one or more state-approved measures,**

**OR**

**B) Meet one of the other individualized State-Approved College and Career Readiness Measures**

**240 CREDITS – BY REQUIRED AREA (classes of 2026, 2027, and 2028)**

Requirement	Credits Required	Typical Year Taken				Wellington Courses
		9th	10th	11th	12th	
Language Arts	40	✓	✓	✓	✓	English 9, World Lit and Composition, US Lit and Composition, Senior English classes and FRCC offerings
Math and Computer Science	30	✓	✓	✓		Any math class in this guide, and/or Select Higher Level Computer Science Classes
Social Studies	10		✓			World Geography or AP Human Geography
Science	30	✓	✓	✓		Earth Systems Science, Biology, and an additional 10 credit science class during 11th or 12th grade
US History	10			✓		US History or FRCC US History
Civics/Government	5				✓	We The People or AP US Government
Humanities	5		✓	✓	✓	History of Rock-n-Roll, FRCC Art Appreciation, Humanities
Fine and Applied Arts	10	✓	✓	✓	✓	Visual Arts Classes, Performing Arts Classes, Production-Based Business, Technology, and Family and Consumer Science Classes
World Language or World Studies	10	✓	✓	✓	✓	Spanish or French or World History
Wellness	15	✓	✓	✓	✓	Any PE class offered, Select Wellness-Based Family and Consumer Science Classes
Personal Finance	5			✓	✓	Personal Finance, FRCC Personal Finance, Principles of Ag Business
Economics	5			✓	✓	Economics or Intro to Economics
General Electives	65	✓	✓	✓	✓	Any course taken after fulfillment of graduation requirements in one of the areas above
Yearly Credits Suggested at Each Grade Level	240	80	80	60	60	Recommended credits per year per grade level - we encourage students to take more than the minimum required to graduate

## 240 CREDITS – BY REQUIRED AREA (class of 2029 and beyond)

Requirement	Credits Required	Typical Year Taken				Coursework Details
		9th	10th	11th	12th	
Language Arts	40	✓	✓	✓	✓	To include skills in oral expression and listening, reading for all purposes, writing and composition, research and reasoning.
Math/Computer Science	30	✓	✓	✓		To include skills in algebra and geometry. (Note: Algebra II is recommended for four-year college admission.) Some higher level computer science classes.
Social Studies	30	✓	✓	✓	✓	To include skills in geography, civics, history, economics. (Note: students must take World History, United States History and Civics.)
Science	30	✓	✓	✓		To include skills in physical, life and earth system sciences.
Fine and Applied Arts	10	✓	✓	✓	✓	To include skills in developing original products, creating artifacts such as artworks or gourmet foods, performing, and problem solving using critical and creative thinking.
Wellness	10	✓	✓	✓	✓	To include skills in physical and personal wellness.
Financial Literacy	5			✓	✓	To include skills in personal financial literacy.
Additional Coursework	85	✓	✓	✓	✓	Any course taken after fulfillment of graduation requirements.
Yearly Credits Suggested at Each Grade Level	240	80	80	60	60	Recommended credits per year per grade level - we encourage students to take more than the minimum required to graduate

WMHS (and Poudre School District) acknowledges the difference between the two graduation standards (pre-2028 and 2029 and beyond) and recommends that students and families consider completing additional credits in the following discipline/areas. These credits shall not impede a student from earning their high school diploma if they are not completed. Additional credit areas are World Languages, Health, Geography, Humanities, and Economics. Students should also look to maximize the number of additional Concurrent Enrollment coursework they can complete while at WMHS.

## POST-SECONDARY READINESS MEASURES, OPTIONS A & B

State & District Approved College and Career-Ready Measures					
Readiness Measure	Measure Information	Cost to Student	Grade	English Score/Criteria	Mathematics Score/Criteria
<a href="#">SAT</a>	Offered to all 11 <sup>th</sup> graders during spring semester.	No	11 or 12	470	500
<a href="#">ACT</a>	Available through private test administrations.	Yes	11 or 12	18	19
<a href="#">Accuplacer (Next Gen Accuplacer)</a>	Offered by local community colleges to prospective math & English concurrent enrollment students.	No	11 or 12	62 on Reading or 70 on Sentence Skills	61 on Elementary Algebra
				The following measures are not dependent on subject area (i.e. English or Math).	
<a href="#">ACT WorkKeys</a>	WorkKeys is a series of assessments that measure skills required for success in the workplace. Passing all three tests qualifies a student for the National Career Readiness Certificate.	No	11 or 12	Bronze or higher on Applied Mathematics	Bronze or higher on Graphic Literacy & Workplace Documents
				Students must score a bronze or above on all three assessments to meet the WorkKeys requirement	
<a href="#">Advanced Placement (AP) Assessment</a>	Offered as an end of course test.	Yes	9 – 12	3 or higher on any A.P. Test	

<a href="#"><u>International Baccalaureate (IB) Assessment</u></a>	International Baccalaureate Assessments are end of course assessments offered at accredited IB Schools.	Yes	11 or 12	4 or higher on any Diploma Program I.B. Test
<a href="#"><u>ASVAB (Armed Services Vocational Battery)</u></a>	Offered annually in PSD. See your counselor for administration information.	No	11 or 12	31 on the AFQT (AFQT includes both math and verbal subtests)
<a href="#"><u>Concurrent Enrollment Course</u></a>	Available at each high school and local colleges.	No	9, 10, 11 or 12	Passing Grade, C or higher
<a href="#"><u>District Capstone course</u></a>	Available at each high school.	No	11 or 12	Passing Grade, D or higher
<a href="#"><u>Industry Certificate</u></a>	Industry recognized certificates may be earned through PSD, through local colleges, or through other accredited institutions.	Varies by Certificate	Varies by Certificate	Successful completion of individual certificate requirements

## **MIDDLE SCHOOL COURSES FOR HIGH SCHOOL CREDIT**

**You can decide if you want to keep any high school credit you earned in middle school.**

Students are eligible to receive PSD high school graduation credit for approved courses taught at a PSD middle school, or for out-of-district approved middle school courses reflected on an official transcript.

### **Middle School Courses Earning High School Credit and the Impact on High School GPA:**

Grades received for credit earning courses DO calculate into a student's high school GPA. The only way to negate this impact is to decline the HS credit by opting-out.

**OPT-OUT:** As stated in District Policy IKF-3, Students/Parents have the option of declining high school graduation credit for approved courses taught at the middle school level. The window for declining HS credit begins the FIRST day of a student's ninth grade school year and ends the LAST day of a student's ninth grade school year. **See your counselor to do this.**

# CONCURRENT ENROLLMENT AT WMHS

## COLLEGE CREDIT IN HIGH SCHOOL

Concurrent enrollment classes are classes taken in high school that receive both HS graduation credit and college credit through Front Range Community College (FRCC). There is no cost to the student for taking these courses. For all PSD high schools, concurrent enrollment takes 4 different forms.

- High School Select – These courses are taken at Wellington Middle-High school and taught by one of our High School teachers – a student is separately enrolled through FRCC and receives a grade and credit for the course on their high school transcript and on their FRCC transcript. Credit amounts will differ by course. College credit is shown on the student’s FRCC transcript that must be requested through FRCC. Wellington helps students with enrollment processes and registration for FRCC. ***There is no limit to the number of HS select classes a student can take.***
- Campus Select (in person) – These courses are taken on the FRCC campus and will show up on the student’s school schedule for HS credit, as well as their college schedule. Students provide their own transportation. Students must complete at least one High School Select course before enrolling in a Campus Select Class. [www.frontrange.edu/concurrent-enrollment/lc/](http://www.frontrange.edu/concurrent-enrollment/lc/)
- Campus Select (remote) – These courses can be taken through an online platform that FRCC uses for all students and classes on campus. Students must complete at least one High School Select course before enrolling in a Campus Select Class

***(Students can take a maximum of 3 campus select credits as a sophomore, 9 campus select credits and a junior, and 12 campus select credits as a senior.)***

Career and Technical Center – Many classes taken at the CTC award FRCC or Aims credit. Check each class individually for credit bearing details. The CTC is currently located in the north part of the basement of Poudre High School. Classes can be scheduled for the morning or the afternoon, allowing students to take 2 classes at Wellington and 1 at the Futures Lab every day. Transportation is provided.



# ASSOCIATES DEGREE \*EXAMPLE\* PATHWAY WELLINGTON HIGH SCHOOL



Work towards an Associates Degree from Front Range Community College (FRCC) while you are in high school, tuition-free! **A minimum of 60 college credits must be completed, with 15 of those credits taken on the FRCC campus.** This is a listing of possible courses students can take either here at WMHS or at FRCC for college credit. There are specific eligibility requirements for taking classes at FRCC through Campus Select. \*

*\*These courses are offered currently OR projected for WMHS. Courses in black can be taken at FRCC (Campus Select)*

	9TH GRADE	10TH GRADE	11TH GRADE	12TH GRADE	A S C E N T 5 T H & 6 T H Y E A R T U I T I O N F R E E O P T I O N	T R E P 5 T H & 6 T H Y E A R T U I T I O N F R E E O P T I O N
<b>ENGLISH/ COMMUNICATIONS</b> 12 FRCC CREDITS		COM 1150 Public Speaking	*ENG 1021 English Composition I  *ENG 1022 English Composition II	*LIT 1015 Intro to Literature  *ENG 1031 Technical Writing 1  *LIT 2055 Children's Literature		
<b>ARTS, HISTORY &amp; HUMANITIES</b> 9 FRCC CREDITS		*PHI 1011 Intro to Philosophy  *SPA 2011 Spanish Level 4	*HIS 1210 US History to Reconstruction  *HIS 1220 US History since the Civil War  *SPA 2012 Spanish Language IV	HUM 1021 Early Civilization		
<b>SOCIAL &amp; BEHAVIORAL SCIENCES</b> 6 FRCC CREDITS		GEO 1005 World Regional Geography		ECO 1001 Economics of Social Issues		
<b>MATH</b> 3 CREDITS			*MAT 1340 College Algebra  *MAT 1420 College Trigonometry	*MAT 1260 Intro to Statistics  MAT 2410 Calculus I		
<b>NATURAL AND PHYSICAL SCIENCE</b> 6 FRCC CREDITS			BIO 1111 General College Biology/lab			
<b>ELECTIVES</b> 24 FRCC CREDITS		BUS 1016 Personal Finance  CIS 1018 Intro to PC Applications	Choose 6 FRCC/10 PSD credits of elective coursework  Meet with a FRCC advisor & choose a <b>degree program</b> and next steps	Choose 9 FRCC/15 PSD credits related to your degree		
<b>60 TOTAL COLLEGE CREDITS FOR DEGREE</b>		3 FRCC Credits max from Campus Select 10th Grade	9 FRCC Credits max from Campus Select 11th Grade	12 FRCC Credits max from Campus Select 12th Grade		

\* To learn more, go to [www.psdfutureready.org/collegecredit](http://www.psdfutureready.org/collegecredit)

## High School Daily Bell Schedule – 2025-26

<b>Period</b>	<b>Start Time</b>	<b>End Time</b>
0	8:15 AM	9:00 AM
1	9:05 AM	10:38 AM
2	10:43 AM	12:13 PM
Lunch	12:13 PM	12:55 PM
3	1:00 PM	2:30 PM
4	2:35 PM	4:05 PM
5	4:10 PM	4:55 PM

## High School Wednesday Late Start Bell Schedule – 2025-26

<b>Period</b>	<b>Start Time</b>	<b>End Time</b>
0	8:15 AM	9:00 AM
Student Support Time	9:00 AM	9:43 AM
1	9:48 AM	11:08 AM
2	11:13 AM	12:33 PM
Lunch	12:33 PM	1:20 PM
3	1:20 PM	2:40 PM
4	2:45 PM	4:05 PM
5	4:10 PM	4:55 PM

# THE BLOCK SCHEDULE, COURSE LOADS, and ELIGIBILITY AT WMHS

## How many classes can I take? How many classes do I need?

Wellington MHS operates its High School on a 4x4 Block schedule. That means that students take 4 classes every day for one quarter, then take 4 more classes every day for the second quarter. In most cases, core courses that were traditionally taken over the entire school year are taken in just one semester. Traditional elective classes, which would have been one semester in length, are one quarter in length on the block schedule. Each “block” in the schedule counts as 5 credits toward graduation. Ex: the schedule below would earn a student 80 credits.

### An example of a 4x4 block schedule

	Quarter 1	Quarter 2	Quarter 3	Quarter 4
Period 1	US History	US History	Chemistry	Chemistry
Period 2	PE	Art	US Literature	US Literature
Period 3	Algebra 2	Algebra 2	Humanities	Economics
Period 4	Spanish 3	Spanish 3	Culinary Nutrition	Woods 1

**Zero-Hour Classes** – WMHS offers a limited number of zero-hour classes. These classes meet outside of the 4x4 block, and the credit earned is adjusted based on the amount of time they meet.

**Full-Time students** – Unless there are exacerbating or extenuating circumstances, all students must be Full-Time students while attending Wellington MHS. A Full-Time student has a minimum of 3 classes per day in our 4x4 Block schedule. This is done to maximize the educational opportunities for students while at WMHS, and also for state of Colorado funding purposes. If students complete graduation requirements earlier than expected, we encourage students to take advantage of free college credit through Concurrent Enrollment classes.

Zero-hour classes **ARE NOT** included as counting toward the minimum of 3 classes per day as they don’t bear the full five credits that classes within the block schedule do. **Please note** – officially registered Home School students may attend WMHS for one period or more per day but must remain enrolled at a minimum in one class period across the first semester.

**Athletic Eligibility at WMHS** – Students participate in athletics sponsored by WMHS must meet Colorado High School Activities Association (CHSAA) participation standards ([section 1700 of the CHSAA by-laws](#)). For the purposes of athletic eligibility at WMHS, students are required to match the 3-class minimum established for Full-Time status.

# LANGUAGE ARTS COURSES

High School Language Arts Pathways – Each box is worth 10 HS credits, 40 Language Arts credits are required for PSD graduation. These columns represent suggested post-secondary admission/ambition pathways.			
Grade	General Graduation Pathway	College Preparatory Pathway	Accelerated College Preparatory Pathway
9 <sup>th</sup>	5030 – 9 <sup>th</sup> Grade English	5030 – 9 <sup>th</sup> Grade English	5030 – 9 <sup>th</sup> Grade English
10 <sup>th</sup>	5412 – World Literature and Composition	5412 – World Literature and Composition	5412 – World Literature and Composition
11 <sup>th</sup>	5863 – US Literature and Composition	5863 – US Literature and Composition	9325/9334CEFRHS – FRCC English Composition 1 and 2 (3 college credits for each class – 6 in total)
12 <sup>th</sup>	5526 – Media Analysis and Composition 7949CEFRHS – FRCC Technical Writing (5 credits PSD, 3 of FRCC)	9325/9334CEFRCC – FRCC English Composition 1 and 2 (3 college credits for each class – 6 in total)	9330CEFRCC – FRCC Intro to Literature 1 & 9017CEFRCC – FRCC Children’s Literature (3 college credits for each class – 6 in total)

**5030S1/S2 English 9**

Credits – 10

Meets requirements: Language Arts

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 themes within various literary genres & includes short stories, novels, and plays.

### 5412S1/S2 World Literature & Composition

Credits – 10

Meets requirements: Language Arts

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

### 5863S1/S2 - US Lit and Composition

Credits – 10

Meets requirements: Language Arts

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.

### 5526S1/S2 – Media Analysis and Composition

Credits – 10

Meets requirements: Language Arts

Media Analysis and Composition is a senior level English course. This two-term course helps students develop media literacy skills, including analysis of various forms of mass media: novels (fiction and nonfiction), newspapers, internet, film, and advertising, etc. While analyzing electronic and print media students also build composition skills writing various essays.

### 9325CEFRCC and 9334CEFRCC (ENG 1021 and ENG1022) – FRCC English Composition I and 2

Credits – 10 PSD and 6 FRCC College Credits

Meets requirements: Language Arts

ENG 1021 – Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. **This is a statewide Guaranteed Transfer course in the GT-CO1 category.**

ENG 1022 – 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 argumentative compositions. **This is a statewide Guaranteed Transfer course in the GT-CO2 category. \*This course requires ENG 1021 as a prerequisite.**

**9330CEFRHS and 9017CEFRCC – (LIT 1015 and LIT 2055) FRCC Intro to Literature & FRCC Children’s Literature**

Credits – 10 PSD and 6 FRCC College Credits

Meets requirements: Language Arts

LIT 1015 – Introduces fiction, poetry, and drama. This course emphasizes active and responsive reading. **This is a statewide Guaranteed Transfer course in the GT-AH2 category.**

LIT 2055 – Examines the criteria for selecting appropriate literature for children. Explores literature through a variety of genres, age levels, values taught through literature, and literary and artistic qualities of various texts. **This is a statewide Guaranteed Transfer course in the GT-AH2 category. \*This course requires LIT 1015 as a prerequisite.**

**7949CEFRHS – (ENG 1031) FRCC Technical Writing** *(does not count for NCAA English eligibility requirements)*

Credits – 5 PSD and 3 FRCC College Credits

Meets requirements: Language Arts

ENG 1031: Develops skills one can apply to a variety of technical documents. Focuses on principles for organizing, writing, and revising clear, readable documents for industry, business, and government. This is a statewide Guaranteed Transfer course in the GT-CO1 category. – ***This course is required for all FRCC Certificate Pathway programs.***

**5220- Creative Writing** *(this class can only be taken once for NCAA English eligibility requirements)*

Credits – 5

Meets requirements: Language Arts

This class enables students to explore and develop their special talents and interests in writing short stories, poems, plays, and other creative works.

**1374 Film Studies: Intro to Film Analysis**

Credits – 5

Meets requirements: Language Arts, Humanities

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

### **5130Q1, Q2, Q3 –Yearbook**

Credits – varies

Meets requirements: Elective

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.

### **5227 – Intro to Acting**

Credits – 5

Meets requirements: Fine and Applied Arts

This 5-credit class emphasizes acting skills such as improvisation, scene work, oral interpretation, and reader's theater. Students learn techniques for confidence on stage: relaxation & imagination.

### **5229 – Theatre Foundations**

Credits – 5

Meets requirements: Fine and Applied Arts

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.

### **5231 – Theatre Practicum – *this class is the fall Theatrical Production at WMHS***

Credits – 5

Meets requirements: Fine and Applied Arts

Theater Practicum includes many advanced aspects of the theater: acting, directing, set construction and design, lighting, sound, and play writing. This class places emphasis on the student as worker. Audition is required for this course.

### **5237 – Musical Theatre Production – *this class is the spring Musical Production at WMHS***

Credits – 5

Meets requirements: Fine and Applied Arts

This 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 theater, and marketing. Audition is required for this course.

# MATHEMATICS

- 1) Graduation Requirements equal 3 years of math classes (30 credits)
- 2) Colorado Commission on Higher Education college entrance recommendation is 4 years of math classes (40 credits)
- 3) All High School graduation credits begin with Algebra 1

## 3 different pathways for math

Grade	General Grade-level Graduation Pathway	Once Accelerated College Preparatory Pathway	Twice Accelerated College Preparatory Pathway
9th	<b>Algebra 1</b>	<b>Geometry/GIC</b> (Grade of 3 or higher in Algebra 1, Spring Map of 250)	<b>Algebra 2</b> (Grade of 3 or higher in Algebra 1)
10th	<b>Geometry/GIC</b>	<b>Algebra 2</b> (Recommended grade of 3 or higher in Algebra 1)	Optional: <b>FRCC College Algebra</b> or <b>FRCC Statistics</b>
11th	<b>Algebra 2</b> Or <b>Data/Discrete</b>	Optional: <b>FRCC College Algebra</b> or <b>FRCC Statistics</b>	Optional: <b>FRCC College Trigonometry</b> or <b>FRCC Statistics</b>
12th	Optional: <b>FRCC College Algebra</b> or <b>FRCC Statistics</b>	Optional: <b>FRCC College Trigonometry</b> or <b>FRCC Statistics</b>	Optional: <b>FRCC Calc 1</b> or <b>FRCC Statistics</b>



**6125S1/S2 Pre-Algebra** *(does not count for NCAA English eligibility requirements)*

Credits – 10

Meets requirements: Mathematics

Prerequisite: Students are placed in this class according to standardized test scores

Pre Algebra is a course designed to offer students the ability to be Algebra 1 ready by mastering middle school standards that are necessary to understand the Algebra 1 material. The fundamentals of Algebra and the basic skills and structures of arithmetic are incorporated throughout. Practical applications of mathematics will be taught. Emphasis will be placed on mathematical reasoning, solving mathematical problems, and being able to communicate this information to others.

**6230S1/S2 Algebra 1**

Credits – 10

Meets requirements: Mathematics

Prerequisite: Math 7/8 or Math 8 or Pre-Algebra

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 should be able to communicate mathematically, make connections within algebra, and between algebra and other disciplines. To address district standards this course will interweave mathematical topics of algebra, geometry, statistics, probability, and measurement.

**6240S1/S2 Geometry**

Credits – 10

Meets requirements: Mathematics

Prerequisite: Successful completion of Algebra 1

The fundamental purpose of the course in Geometry is to formalize and extend students' geometric experiences from the middle grades. Students explore more complex geometric situations and deepen their explanations of geometric relationships, moving towards formal mathematical arguments. Transformations are emphasized early in this course. The critical areas are organized into six units: Congruence, Proof, and Constructions; Similarity, Proof and Trigonometry; Connecting Algebra and Geometry through Coordinates; Circles with and Without Coordinates; Extending to Three Dimensions; Applications or Probability.

**6242S1/6242S2 Geometry in Construction** - \*Student are placed into this course\*

Credits – 10

Meets requirements: Mathematics

Prerequisite: Successful completion of Algebra 1 – students are placed in this course

This is an integrated class that will inspire interest and relevance in geometry concepts and theory, while also providing insight into numerous building trade fields. Students will learn geometry concepts then apply them to the construction of a 10'x11' Victorian-style playhouse as the culminating project. Upon completion, we will sell the playhouse and use the funds to sustain this class for future school years. – **with course construction systems - 2288**

### **6146 – Data Analysis and Probability and 6246 – Discrete Mathematics**

Credits – 10, when taken together

Meets requirements: Mathematics

Prerequisite: Successful completion of Algebra 1 and Geometry

Data Analysis & Probability is a 5-credit 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 the FRCC stats class. 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.

Discrete Mathematics is a 5-credit long course that 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.

### **6250S1/S2 Algebra 2**

Credits – 10

Meets requirements: Mathematics

Prerequisite: Successful completion of Algebra 1 and Geometry

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

### **6142S1CEFR/6142S2CEFR – FRCC Introduction to Statistics (MAT1260)**

Credits – 10 PSD and 3 FRCC

Meets requirements: Mathematics

Prerequisite: Successful completion of Algebra 2

MAT 1260: Introduces descriptive and inferential statistics, with an emphasis on critical thinking and statistical literacy. Topics include methods of data collection, presentation and summarization, introduction to probability concepts and distributions, and statistical inference of one and two populations. This course uses real world data to illustrate applications of a practical nature. **This is a statewide Guaranteed Transfer course in the GT-MA1 category.**

**6275SCEFRH – FRCC College Algebra (Sem)** (MAT 1340)

Credits – 10 PSD and 4 FRCC

Meets requirements: Mathematics

Prerequisite: Successful completion of Algebra 2

MAT 1340: Focuses on a variety of functions and the exploration of their graphs. Topics include: equations and inequalities, operations on functions, exponential and logarithmic functions, linear and non-linear systems, and an introduction to conic sections. This course provides essential skills for Science, Technology, Engineering, and Math (STEM) pathways.

**This is a statewide Guaranteed Transfer course in the GT-MA1 category.**

**6276S1CEFR/6276S2CEFR – FRCC College Trig and Analytic Geometry** (MAT 1420)

Credits – 10 PSD and 3 FRCC

Meets requirements: Mathematics

Prerequisite: Successful completion of College Algebra w/grade of C or higher

MAT 1420: Explores trigonometric functions, their graphs, inverse functions and identities. Topics include: trigonometric equations, solutions of triangles, trigonometric form of complex numbers, and polar coordinates. This course provides essential skills for Science, Technology, Engineering, and Math (STEM) pathways.

**This is a statewide Guaranteed Transfer course in the GT-MA1 category.**

**9350CEFRCC – FRCC Calculus 1** – (MAT 2410)

Credits – 10 PSD and 5 FRCC

Meets requirements: Mathematics

Prerequisite: Successful completion of FRCC College Trigonometry w/grade of C of higher

MAT 2410: Introduces single variable calculus and analytic geometry. It includes limits, continuity, derivatives, and applications of derivatives as well as indefinite and definite integrals and some applications. **This is a statewide Guaranteed Transfer course in the GT-MA1 category.**

# SCIENCE

## 30 CREDITS OF SCIENCE (3 CLASSES) REQUIRED FOR GRADUATION

Grade	Course
9 <sup>th</sup>	6809S1/S2 - Earth Systems Science
10 <sup>th</sup>	6810S1/S2 – Biology
11 <sup>th</sup> Or 12 <sup>th</sup>	2400S1/S2 - Engineering Physics 6770S1/S2 - Environmental Science 6790S1/S2 - Chemistry 6820S1/S2 - Physics 6830S1/S2 - Anatomy and Physiology

### 6809S1/S2 Earth Systems Science – 9<sup>th</sup> grade

Credits – 10

Meets requirements: Science

Earth Systems Science (ESS) is a standards-based physical science course that explores the interactions of the various spheres of Earth (atmosphere, hydrosphere, geosphere, 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. Prerequisite: Algebra 1 (Can be taken concurrently)

### 6710S1/S2 – Biology – 10<sup>th</sup> grade

Credits – 10

Meets requirements: Science

Prerequisite: Earth System Science, preferred

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.

### 6770S1/S2 – Environmental Science

Credits – 10

Meets requirements: Science

Prerequisite: ESS, Biology

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.

### **2400S1/S2 – Engineering Physics**

Credits – 10

Meets requirements: Science

Prerequisite: ESS, Biology

This course provides students with a foundation for careers in technical areas. It combines scientific principles in applied physics with closely integrated video and hands-on laboratory experiences. Topics of instruction include key physics concepts and how they apply to mechanical, fluid, electrical, and thermal systems. The units also cover the mathematics needed to understand and apply the concepts in the course.

### **6830S1/S2 – Anatomy & Physiology**

Credits – 10

Meets requirements: Science

Prerequisite: ESS, Biology

This class is for students with a major interest in the biomedical career paths that will allow them to enjoy the in-depth study of the major human systems. Anatomy is the study of structure. Extensive dissection of vertebrates will reinforce the body and demonstrate the complexities and similarities in mammalian structure. Physiology is the function and interaction of the body parts and their associated systems.

### **6790S1/S2 – Chemistry**

Credits – 10

Meets requirements: Science

Prerequisite: ESS, Biology, Algebra 2

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.

### **6820S1/S2 – Physics**

Credits – 10

Meets requirements: Science

Prerequisite: ESS, Biology, Algebra 2

Physics is a laboratory course exploring the interactions of energy and matter. Units of study include forces, motion, energy, waves, sound, light, and introductions to electricity and modern physics. Its approach also emphasizes rigorous problem-solving skills and quantitative laboratory work necessary for college.

# SOCIAL STUDIES

## MULTIPLE GRADUATION REQUIREMENT AREAS

High School Social Studies Classes by grade level *Fulfills graduation requirement*		
Grade	Course	Electives (some electives fulfill a graduation requirement)
9 <sup>th</sup>	7250S1/S2 - World History*	None recommended
10 <sup>th</sup>	7210S1/S2 - World Geography* or 7227S1/S2 - AP Human Geography*	7240 – Psychology
11 <sup>th</sup>	7220S1/S2 - US History* or 9459/9466 FRCC US History to and from Reconstruction* (3 FRCC credits for each class – total of 6 credits available)	7240 – Psychology, 7246S1/S2 – AP Psychology, 7230 – Economics*, 7285 – Military History, 7286 – Facing History, 5857 – Humanities*
12 <sup>th</sup>	7274 – We the People Political Science* or * 9789CEFRHS – FRCC American Government	7246S1/S2 – AP Psychology, 7230 – Economics*, 7285 – Military History, 7286 – Facing History, 5857 – Humanities*, 9380CEFRHS – FRCC Intro to Philosophy*

### **7250 World History**

Credits – 10

Prerequisite: None

Meets requirements: Social Studies

The World History course takes a true global approach to the study of history examining multiple civilizations from a variety of continents 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.

**7210S1/S2 – World Geography & Culture**

Credits – 10

Meets requirements: Social Studies

Prerequisite: None

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.

**7227S1/S2 – AP Human Geography**

Credits – 10

Meets requirements: Social

Studies

Prerequisite: None

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 analysis to analyze human organization of the demographic, political, and economic landscape. Students learn about the methods and tools geographers use in their science and practice.

**7220S1/S2 US History**

Credit – 10

Meets requirements: US History

Prerequisite: None

This is the 1st Semester of US History. 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 American 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.

**9459/9466CEFRHS – FRCC US History to Reconstruction and From Reconstruction** (HIS 1210 & HIS 1220)

Credits – 10 PSD and 6 FRCC

Meets requirements: US History

Prerequisite: None

HIS 1210: Explores trends within events, peoples—including Native American—groups, ideas, and institutions in North America and the United States to Reconstruction. This class focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. **This is a statewide Guaranteed Transfer course in the GT-HI1 category.**

HIS 1220: Explores trends within events, peoples, groups, ideas, and institutions since the American Civil War. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. **This is a statewide Guaranteed Transfer course in the GT-HI1 category.**

**7274 – We the People**

Credits – 5

Meets requirements: Civics/Government

Prerequisite: US History

This course is a study of the struggle of various groups who have expanded the definition of liberty and justice for all in American history. This course will examine the behavior of various individuals and groups in the American political system and the non-institutional forces that influence decision-making in U.S. politics related to these groups. Special attention is paid to the Bill of Rights (The first 10 amendments to the Constitution).

**9789CEFRHS – FRCC American Government** (PSC1011)

Credits – 5 PSD and 3 FRCC

Meets requirements: Civics/Government

Prerequisite: US History

POS 1011: Includes the background of the U.S. Constitution, the philosophy of American government, general principles of the Constitution, federalism, and civil liberties. Examines public opinion and citizen participation, political parties, interest groups, electoral process, and the structure and functions of the national government. **This is a statewide Guaranteed Transfer course in the GT-SS1 category.**



### **5857 – Humanities**

Credits – 5

Meets requirements: Humanities

Prerequisite: None

Students will study world cultures and ethnic groups which have deeply affected American thinking and creativity. They will explore the philosophy, literature, art, music, and comparative religions of Europe, Africa, Latin America, and Asia. Excellent for college preparation this year-long class encourages student created projects and attendance at cultural events.

### **7230 – Economics**

Credits – 5

Meets requirements: Economics

Prerequisite: None

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.

### **7246 – AP Psychology**

Credits – 10

Meets requirements: Elective

Prerequisite: Psychology

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 subfields within psychology. They also learn about the methods psychologists use in their science and practice.

### **7285 – Military History**

Credits – 5

Meets requirements: Elective

Prerequisite: none

Students will study U.S. foreign policy initiatives, military conflicts, and the technologies that shape those conflicts. The course will start with the post-Civil War advent of American Imperialism, continue through WWII, the origins of the Cold War, the Korean Conflict, the Global Cold War, Vietnam, and contemporary conflicts. Students will analyze and discuss each event practicing the 5 "Cs" of historical thinking: Change of Time, Context, Causality, Complexity, and Contingency.

**7286 – Facing History & Ourselves**

Credits – 5

Meets requirements: Elective

Prerequisite: none

Facing History and Ourselves is a class that seeks to study genocidal events as case studies to examine the economic, social, and political conditions that allow these events to manifest. The goal is to prepare students to be participants in a democratic society. Through the lens of history this class will explore the importance of civic engagement on all levels to prevent atrocities and to foster a functioning and informed state.

**9380CEFRHS – FRCC Intro to Philosophy (PHI1011)**

Credits – 5, FRCC 3

Meets requirements: Humanities

Prerequisite: None

PHI 1011: Introduces significant theoretical and practical questions and emphasizes understanding the meaning and methods of philosophy. Includes: the human condition, logic, reality, knowledge, freedom, history, ethics, and religion. **This is a statewide Guaranteed Transfer course in the GT-AH3 category.**

# WORLD LANGUAGES

The Higher Education Admissions Recommendations (HEAR) at least one year of a World Language for admission to Colorado colleges. Please check with the college to which you are applying to understand their admission policies.

## **4710S1/S2 – French Level 1 / 4730S1/S2 – Spanish Level 1**

Credit – 10

Meets requirements: World Language/Culture

This course meets the Colorado Academic Standards for novice-mid communication proficiency. Students communicate in spontaneous spoken and written conversations, identify the general topic and some basic information in texts, using a variety of practiced or memorized words, phrases, and simple sentences, on both very familiar and everyday topics. Language acquisition activities promote learning in context by being immersed in comprehensible language, emphasizing communication over form.

## **4750S1/S2 – French Level 2 / 4770S1/S2 – Spanish Level 2**

Credit – 10

Meets requirements: World Language/Culture

Pre-requisite: Level 1

This course meets the Colorado Academic Standards for novice-high communication proficiency. Students communicate in spontaneous spoken and written conversations, identify the general topic and some basic information in texts, using a variety of simple sentences, on both very familiar and everyday topics. Language acquisition activities promote learning in context by being immersed in comprehensible language, emphasizing communication over form.

## **4790S1/S2 – French Level 3 / 4810S1 – Spanish Level 3**

Credit – 10 PSD

Meets requirements: World Language/Culture

Pre-requisite: Level 2 Language

This course meets the Colorado Academic Standards for novice-high approaching Intermediate low communication proficiency. Students communicate in spontaneous spoken and written conversations, understand the main idea and some pieces of information in texts, using simple sentences and starting to create simple sentences to ask and answer a variety of questions, on very familiar topics. Language acquisition activities promote learning in context by being immersed in comprehensible language, supporting communication with emerging accuracy.

**4840CEFRCC – FRCC Spanish Language 3 (SPA2011)**

Credit – 10 PSD and 3 FRCC

Meets requirements: World Language/Culture

Pre-requisite: Spanish 3

SPA 2011: Continues Spanish Language II in the development of increased functional proficiency at the intermediate level in speaking, aural comprehension, reading, writing, and cultural competency in the Spanish language. This course is conducted predominantly in Spanish. **This is a statewide Guaranteed Transfer course in the GT-AH4 category.**

**4820S1/S2 – French Level 4**

Credit – 10 PSD

Meets requirements: World Language/Culture

Pre-requisite: Level 3 & “C” or higher

This course meets the Colorado Academic Standards for solid Intermediate low communication proficiency. Students communicate in spontaneous spoken and written conversations, understand the main idea and some pieces of information in texts, creating simple sentences to ask and answer a variety of questions, on familiar topics. Language acquisition activities promote learning in context by being immersed in comprehensible language, supporting communication with improved accuracy.

**4840FRHS – FRCC Spanish Language IV (SPA2012)**

Credit – 10 PSD and 3 FRCC

Meets requirements: World Language/Culture

Pre-requisite: “C” or higher in FRCC Spanish Language 3

SPA 2012: Continues Spanish Language III in the development of increased functional proficiency at intermediate mid-level in speaking, aural comprehension, reading, writing, and cultural competency in the Spanish language. This course is conducted predominantly in Spanish. **This is a statewide Guaranteed Transfer course in the GT-AH4 category.**

**4871S1/S2 – AP Spanish 5**

Credit – 10 PSD

Meets requirements: World Language/Culture

Pre-requisites: FRCC Level 4

This course meets the Colorado Academic Standards for Intermediate mid communication proficiency. Students communicate in spontaneous spoken and written conversations, understand the main idea and key information in texts, create sentences and some series of sentences to ask and answer a variety of questions, on familiar topics. Language acquisition activities promote learning in context by being immersed in comprehensible language, supporting communication with increased accuracy. Students will prepare to take the national AP language exam.

### **4913S1/S2 – Spanish Literacy 3**

Credit – 10 PSD

Meets requirements: World Language/Culture

Pre-requisites: Placement

This high school course is intended for Spanish-speaking students to improve and enrich literacy skills of reading and writing proficiency. Students receive instruction in reading comprehensions skills and strategies through Spanish literature selections. They also refine and improve skills that allow them to write for a wide range of purposes and a variety of audiences. This course addresses the World Language standards of communication, culture, connections, and comparisons.

### **4914S1/S2 – Spanish Literacy 4**

Credit – 10 PSD

Meets requirements: World Language/Culture

Pre-requisites: Placement

This high school course is intended for Spanish-speaking students with strong comprehension and literacy skills to communicate by applying a wide range of vocabulary and complex structures. Students interpret, analyze, synthesize, and apply information from a variety of sources and create comprehensible oral and written presentations. They analyze the perspectives and significance of cultural practices to expand and apply knowledge. This course addresses the World Language standards of communication, culture, connections, and comparisons.

### **4916S1/S2 – Spanish Literacy 5/Heritage Language Spanish Speaker**

Credit – 10 PSD

Meets requirements: World Language/Culture

Pre-requisites: Placement

This high school advanced course is intended for Spanish language learners. The course explores Spanish speaking cultures and literature in a historical-contemporary setting. Diverse reading selections are intertwined with grammar and vocabulary to improve literacy skills and linguistic abilities. Students that have demonstrated proficiency by completion of a minimum of Spanish level 4 or the Spanish Literacy 4 course and or teacher approval. Students can prepare to take the national AP language exam.

# PHYSICAL EDUCATION & WELLNESS

15 CREDITS (3 CLASSES) OF WELLNESS REQUIRED FOR GRADUATION

## ***Foundational Classes (can be taken one time only)***

### **3001 – Lifetime Physical Education**

Credit – 5

Meets requirements: Wellness

Pre-requisites: none

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.

### **3010 – Beginning Weight Training**

Credit – 5

Meets requirements: Wellness

Pre-requisites: none

This course is designed to improve muscular strength and endurance. It is designed to be a basic weight training course not a body building 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.

### **3026 – Health and Wellness**

Credit – 5

Meets requirements: Wellness

Pre-requisites: none

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

## ***Advanced Classes (can be taken multiple times)***

### **3006 – Yoga and Fitness**

Credit – 5

Meets requirements: Wellness

Pre-requisites: a foundational class

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

### **3004 – Team and Individual Sports**

Credit – 5

Meets requirements: Wellness

Pre-requisites: a foundational class

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

### **3012 – Advanced Weight Training**

Credit – 5

Meets requirements: Wellness

Pre-requisites: Beginning Weight Training

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

### **3066 – Athletic Weights Conditioning (register by quarter)**

Credit – 5

Meets requirements: Wellness

Pre-requisites: Beginning Weight Training

This class will provide the opportunity to explore the benefits of physical activities such as weightlifting, 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.

**3600 – Adventure Education** – \*Application Class\*

Credit – 5

Meets requirements: Wellness

Pre-requisites: a foundational class

Adventure Education is an elective designed to promote lifelong fitness. Students will be introduced to a variety of sports and activities that promote an active healthy lifestyle such as Ultimate Frisbee, Frisbee Golf, Street Hockey, Biking, Rock Climbing, Kayaking, Paddleboarding, and Scuba diving. Students will be required to wear clothing appropriate for the activities and will need the ability to transport themselves to off-campus locations for these activities. **(this class is limited to 11<sup>th</sup> and 12<sup>th</sup> grade students only – self-transport to and from activities is preferred)**



# VISUAL ARTS

## 10 CREDITS OF FINE AND APPLIED ARTS REQUIRED FOR GRADUATION

### **1240 – Drawing**

Credit – 5

Meets requirements: Fine & Applied Arts

Prerequisite: none

This course will provide an opportunity for students to improve their own drawing skills 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, pen and ink, and pastels. Drawing is recommended before taking other art courses.

### **1241 – Advanced Drawing**

Credit – 5

Meets requirements: Fine & Applied Arts

Prerequisite: Drawing

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.

### **1280 – Painting**

Credit – 5

Meets requirements: Fine & Applied Arts

Prerequisite: none

This course covers the basic materials and methods of painting. The students will learn to work with watercolor, acrylic, latex, and possibly gouache and oils. Emphasis will be on understanding color relationships, creative expression, and composition. Drawing is strongly recommended before taking this course.

### **1281 – Advanced Painting**

Credit – 5

Meets requirements: Fine & Applied Arts

Prerequisite: none

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 techniques in painting.

### **1320 – Pottery**

Credit – 5

Meets requirements: Fine & Applied Arts

Prerequisite: none

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.

### **1322 – Advanced Pottery**

Credit – 5

Meets requirements: Fine & Applied Arts

Prerequisite: none

This course is a continuation of Pottery. The students will design and construct advanced pottery pieces and will explore various techniques associated with pottery. The students may also explore using multi-media approaches to pottery. Hand-building and throwing on the potter's wheel.

### **1270 – Jewelry**

Credit – 5

Meets requirements: Fine & Applied Arts

Prerequisite: none

The students will observe and interpret metals and nonmetals through experimentation. Planning of designs utilizing the skills of sawing, forging, cold connections, soldering, casting, surface enrichment, and other beginning jewelry techniques may be explored. The history and aesthetics of jewelry will be studied. Wire metal (nickel, silver, brass, copper, and sterling silver), wood fibers, and stones may be used. The process of casting is also introduced. Design and craftsmanship are emphasized. Drawing (1240) is strongly recommended before taking the course.

### **1271 – Advanced Jewelry**

Credit – 5

Meets requirements: Fine & Applied Arts

Prerequisite: Jewelry

This course is a continuation of Jewelry. The students will continue to explore various media and advanced techniques in jewelry.

### **8327 – Commercial Photography 1**

Credit – 5

Meets requirements: Fine & Applied Arts

Prerequisite: none

This photography course focuses on studio-based photography. Students will learn basic DSLR camera operations, framing and the art of styling and lighting for professional photoshoots. Projects will include various print advertisements and studio work. Students will learn about careers related to commercial photography and the postsecondary programs and requirements within Colorado. Some examples of jobs in this area are photographer, graphic designer, and stylist. Students will complete several projects and design pieces to be added to personal portfolios.

### **8796 – Commercial Photography 2**

Credit – 5

Meets requirements: Fine & Applied Arts

Prerequisite: none

Course emphasizes the needs of commercial photographers with regard to technical expertise, creativity, and professional equipment. Technical aspects include film to digital transfer, lighting, digital image manipulation, alternative processes, large format camera work and stock photography. Creative exploration of subject matter, lighting, color theory and other psychological characteristics in the development of images are studied. A variety of photographic equipment is utilized for the studio and on location. Students are expected to create a portfolio of work for both print and electronic formats.

### **7862CEFRHS – FRCC Adobe Photoshop 1 (MGD1011)**

Credit – 5

Meets requirements: Fine & Applied Arts

Prerequisite: 8327 and 8796 – Commercial Photo 1 and 2

Concentrates on the high-end capabilities of Adobe Photoshop as an illustration, design and photo retouching tool. Students explore a wide range of selection and manipulation techniques that can be applied to photos, graphics and videos. Course competencies and outline follow those set out by the Adobe Certified Associate exam in Visual Communication Using Adobe Photoshop. **This is not a Guaranteed Transfer course.**

### **9622CEFRHS – FRCC Art Appreciation (ART 1110)**

Credit – 5

Meets requirements: Humanities/Fine & Applied Arts

Prerequisite: none

ART 1110: Introduces the cultural significance of the visual arts, including media, processes, techniques, traditions, and terminology. **This is a statewide Guaranteed Transfer course in the GT-AH1 category.**

**1484S1/S2 – AP Studio Art**

Credit – 10

Meets requirements: Fine & Applied Arts

Prerequisite: Application

This class provides students the opportunity to work in a variety of art mediums in a studio environment to create a finalized portfolio to submit as part of the AP Studio Art test. The curriculum for this class includes instruction with various mediums, history, aesthetics and evaluation. AP Studio Art is designed for the serious art student wishing to pursue an art related field/education.

**5290S1 – Television Production A**

Credit – 5

Meets requirements: Fine & Applied Arts

Prerequisite: none

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

**5290S2 – Television Production B**

Credit – 5

Meets requirements: Fine & Applied Arts

Prerequisite: 5290S1 – Television Production A

This is the second step of the TV pathway.

**1376A / 1376B– Audio Video Production 1A and 1B**

Credit – 5 each

Meets requirements: Fine & Applied Arts

Prerequisite: 5290S2 – Television Production

These courses explore the Audio and Video production industry and its post-secondary educational and career opportunities. Students will gain job-specific training for entry-level employment in audio, video, television, and motion picture careers. Professional-grade equipment and software will be used in the creation of student-led productions. Students will be involved in every aspect of several class and small group audio, video, and film style production projects with an emphasis on TV studio broadcasting and news production projects. Students will also be encouraged to participate as studio crew for district productions outside of school hours.

# BUSINESS and MARKETING

Marketing Pathway	Finance Pathway	other electives
Business and Marketing Essentials		
Event Marketing and Communications	Principles of Management	Intro to PC Apps
Entrepreneurship	Accounting Series	Personal Finance*
		Intro to Economics*
Work-based Learning	Work-based Learning	*=grad requirement

## **1760 – Business and Marketing Essentials**

Credit – 5

Meets requirements: Elective

Prerequisite: none

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

## **1750 – Intro to PC Applications**

Credit – 5

Meets requirements: Elective

Prerequisite: none

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

**1923 – Intro to Economics** (fulfills graduation requirement)

Credit – 5

Meets requirements: Economics/Financial Literacy

Prerequisite: none

This course is a survey of economics. It is designed as a beginning economics class. The course covers economics theories, supply and demand, national income accounting, money and banking, market structures and contemporary economic issues. It meets graduation requirements for both Economics as well as Financial Literacy (class of 2029)

**1930 – Personal Finance**

*(fulfills graduation requirement)*

Credit – 5

Meets requirements: Personal Finance/Financial Literacy

Prerequisite: none

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

**1930CEFRHS – FRCC Personal Finance** (BUS1016)

Credit – 5 PSD and 3 FRCC

Meets requirements: Personal Finance/Financial Literacy

Prerequisite: none

BUS 1016: Surveys the basic personal finance needs of most individuals and introduces the personal finance tools useful in planning and instituting a successful personal financial philosophy. The course emphasizes the basics of budgeting, buying, saving, borrowing, career planning, investing, retirement planning, estate planning, insurance, and income taxes. **This is not a Guaranteed Transfer course.**

**1758 – Event Marketing and Communications**

Credit – 5

Meets requirements: Elective

Prerequisite: none

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

**1940 – Principles of Management**

Credit – 5

Meets requirements: Elective

Prerequisite: none

Provides an overview of the principles of management. Emphasis is on the primary functions of planning, organizing, staffing, leading and controlling with a balance between the behavioral and operational approaches.

**1830 – Fundamental of Accounting A**

Credit – 5

Meets requirements: Elective

Prerequisite: none

Introduces accounting fundamentals with emphasis on the procedures and practices used in business organizations. Major topics include the accounting cycle for service and merchandising companies, including end-of-period reporting.

**1831 – Accounting B**

Credit – 5

Meets requirements: Elective

Prerequisite: none

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

**1770 – Entrepreneurship**

Credit – 5

Meets requirements: Elective

Prerequisite: none

Teaches entrepreneurs planning skills from the development of a conceptual business to an actual comprehensive business plan. This practical approach includes one-on-one counseling with the instructor and professional volunteer counselors. Guest speakers are an integral part of the course. Additional topics include marketing strategies and tactics, liability protection, growth management, financial management and projections, networking, and funding options.

**1779 - Work-Based Learning: Business**

Credits – variable

Meets Requirements: Elective

Prerequisite: Pathway in CTE

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

**8338 - Work-Based Learning: Business**

Credits – variable

Meets Requirements: Elective

Prerequisite: Pathway in CTE

# CTE – Agricultural Education

## Grade Level Pathways

<b>Freshmen</b>		
<b>Fall Semester</b>		<b>Spring Semester</b>
Intro to Agriculture		Principles of Animal/Vet Science A/B
		or
		Ag Power Systems
<b>Sophomore</b>		
<b>Fall Semester</b>		<b>Spring Semester</b>
Ag Business A/B		Animal Production A/B- or Principles of Plant Science A/B
		or
		Advanced Welding/Metal Fab-
<b>Junior</b>		
<b>Fall Semester</b>		<b>Spring Semester</b>
Ag Leadership/Ag Sales and Marketing		Advanced Animal Production A/B
		or
		AG Engines Equipment/Applied Ag Tech
<b>Senior</b>		
Ag WBL		Ag WBL
Ag Capstone		Ag Capstone

**4100/4101 – Introduction to Agriculture A & B**

Credit – 5 each

Prerequisite: none

Meets requirements: Elective

An introductory course for first year agriculture education students. This course introduces students to the foundational principles of agriculture, food and natural resources. Students will gain knowledge in career development, leadership, personal development, communications, animal science, plant science, natural resources, food science, power/structure and agribusiness. **At WMHS, this should be the first class anyone interested in the Ag Ed pathway takes.**



### **6756S1/S2 – Principles of Animal and Vet Science A & B**

Credit – 5 each

Meets requirements: Science

Prerequisite: 4100/4101 Intro to Ag

Students will develop knowledge, skills and understanding in the biological processes and physiological systems found in livestock and companion animal species including anatomy and physiology, growth and development, muscular and skeletal systems, integumentary system, respiratory and circulatory systems, nervous system, lymphatic and endocrine systems and excretory system. The scientific processes of observation, hypothesizing, data gathering, interpretation, analysis and application will be included. Career opportunities and educational preparation will be examined. Learning activities are varied with classroom, laboratory and field experiences will be included.

### **6754S1/S2 – Animal Production A & B**

Credit – 5 each

Meets requirements: Science

Prerequisite: 6756 Principles of Animal and Vet Science A & B

Students will gain knowledge, skill and understanding in a variety of systems of production as well as the care, management and handling of livestock and companion animal species. Nutrients and nutrition, types of feeds, balancing rations, herd health management, common diseases, parasites, disease treatment and prevention, reproductive management, routine administration techniques and basic animal handling will be the topics covered in this course. Current animal agriculture issues will be researched and addressed. The scientific processes of observation, hypothesizing, data gathering, interpretation, analysis and application will be included. Career opportunities and educational preparation will be examined. Learning activities are varied with classroom, laboratory and field experiences will be included.

### **6757A/B – Advanced Animal Production A & B**

Credit – 5 each

Meets requirements: Science

Prerequisite: 6754 – Animal Production

Students will focus on the care, maintenance, and management of livestock and companion animal species. Advanced techniques in animal behaviors and handling, routine administration and surgical procedures, governmental regulations and programs, animal identification protocols and procedures, HACCP analysis and monitoring, and facilities equipment for large, small, and exotic/alternative animal production will be developed. Current animal agricultural issues will be research and addressed. The scientific processes of observation, hypothesizing, data gathering, interpretation, analysis, and application will be included. Career opportunities and education preparation will be examined. Learning activities are varied with classroom. Laboratory and field experiences will be required.

### **4114/4115 – Principles of Ag Power Structure and Tech Systems A & B**

Credit – 5 each

Meets requirements: Elective

Prerequisite: 4100/4101 Intro to Ag

Principles of Ag Power, Structure, and Technical System- A is an introductory course educating students to the basic skills and knowledge in construction and land management. This course covers topics including safety, project management, land site management, irrigation and drainage and agriculture structures and components. Upon completion of this course, proficient students will be prepared for more advanced coursework in agricultural mechanics.

### **2224/2296 – Metal Fabrication/Advanced Welding Technology**

Credit – 5 each

Meets requirements: Elective

Prerequisite: 4114/4115 Principles of Ag Power Structure and Tech Systems A & B

2224 – This course entails the application of basic metal welding skills to the construction of items through the fabrication process. Skills include project blueprint development, welding blueprint symbol interpretation, bill of materials, fabrication process determination, construction skills and quality control.

2296 – Advanced Welding Technology is an advanced course educating students in the advanced skills and knowledge in metal fabrication. Students will build on the skills and competencies presented in prerequisite courses. Students will learn cutting and welding applications of increasing complexity used in the manufacturing/metal fabrication industry. Students will be proficient in fundamental safety practices in welding, general industry-based metal fabrication skills, multiple welding processes, project management, quality control methods, and further advanced welding/metal fabrication technology and processes.

### **4120A/4119DC – Ag Engine & Equipment Technology/Applied Ag Technology**

Credit – 5 each

Meets requirements: Elective

Prerequisite: 4114/4115 Principles of Ag Power Structure and Tech Systems A & B

4120 – This course will consist of the basic theory, operation and maintenance of the internal combustion engine primarily small engines. Students will gain basic understanding and interpretation of technical manuals. This course will also offer career opportunities in the equipment technician field. The course focuses on engines in compact equipment utilized in agriculture, construction and the green industry. Class time is divided between hands-on activities in the lab and classroom instruction.

4119 – Applied Agriculture Technology is an advanced course educating students in the advanced skills and knowledge in metal fabrication. Students will build on the skills and competencies presented in prerequisite courses. Students will learn cutting and welding applications of increasing complexity used in the manufacturing/metal fabrication industry. Students will be proficient in fundamental safety practices in welding, general industry-based

metal fabrication skills, multiple welding processes, project management, quality control methods and further advanced welding/metal fabrication technology and processes.

**9284A/B – Principles of Plant Science A & B**

Credit – 5 each

Meets requirements: Science

Prerequisite: 4100/4101 Intro to Ag

Plant Science provides students with knowledge and information about the growth, development, and reproduction of plants used for food, fiber, and beautification. Topics may include plant anatomy and physiology, plant growth processes such as photosynthesis, propagation (reproduction) methods, taxonomy and classification, and plant identification. The course will also highlight developing communication skills, leadership skills, and incorporate a survey of the careers within the plant science industry. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

**4116/4117- Principles of Agriculture Business A & B**

Credits – 5 each

Meets Requirements: Personal Finance

Prerequisite: Prerequisite: 4100/4101 Intro to Ag

In this course students will be comparing business models and identifying the advantages and disadvantages to owners and customers within the agribusiness chains. Students will show an understanding of basic recordkeeping skills and applications in an agribusiness. Components include the general journal, balance sheet, cash flow statements, and financial statements, reconciliation of accounts, net worth, income statements, and profit and loss statements. Students will understand how these records can allow for business decisions within an agribusinesses or Supervised Agriculture Experience (SAE) program.

**4113/4111 – Agriculture Leadership/Agriculture Sales and Marketing**

Credits – 5 each

Meets Requirements: Elective

Prerequisite: Prerequisite: 4116/4117- Principles of Agriculture Business

4113 – Focuses on the leadership skills for contemporary organizations. Covers development and communication a shared vision to motivate and empower employees to manage conflict, to negotiate, and to develop teams.

4111 – The selling and marketing of real-life agriculture products will be the focus of the class. The student will learn step-by step sales techniques, stage presence, self-evaluation of voice, habits, abilities, in sales, and understanding of sales careers. In marketing of the projects, topics covered include market researching, trade, and competition and pricing in relation to the development of a marketing plan for commodities or other agricultural products or services. Students will continue progress in FFA leadership skills as well as strengthen their Supervised Agriculture Experience.

**4110 – Work-Based Learning: Agriculture**

Credits – variable

Meets Requirements: Elective

Prerequisite: Prerequisite: An Ag Ed pathway

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

# CTE – Engineering and STEM

## POSSIBLE PROGRAM PATHWAYS

2279 – Principles of Engineering and Technology	
2210 – Intro to Drafting and Design Concepts A	6331 A/B – AP Computer Science Principles
2220 – Intro to Technical Drawing/Design A	2205 – Robotics and Automated Systems A
2221 – Intro to Technical Drawing/Design B	2206S1/S2 – Robotics and Automated Systems B
2210 – Intro to Drafting and Design Concepts A	2207CEAIHS – AIMS Robotics Technologies

### **2279 – Principles of Engineering and Technology**

Credits – 5

Meets Requirements: Elective

Prerequisite: none

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

### **2210 – Intro to Drafting and Design Concepts A**

Credits – 5

Meets Requirements: Elective

Prerequisite: Principles of Engineering

This course offers students the opportunity to combine design principles with technology to produce authentic projects. The initial focus will be on developing an understanding of the visual elements and the principles of design. Students will study both two and three-dimensional applications and problems. Students will explore areas such as: graphic design, architectural design, landscaping design, manufacturing design and interior design. Students will use drafting skills to produce detailed working drawings, sectionals, auxiliary, fasteners, and simple architectural floor plans. Students will also work in design teams to create pattern development and design and produce prototypes. They will be introduced to computer design software such as Google Sketch, SolidWorks, AutoCAD, and ArchiCad. (Grade 10-12)

### **6331A/B – AP Computer Science Principles**

Credits – 10

Meets Requirements: Elective

Prerequisite: Principles of Engineering

This course offers students the opportunity to combine design principles with technology to produce authentic projects. The initial focus will be on developing an understanding of the visual elements and the principles of design. Students will study both two and three-dimensional applications and problems. Students will explore areas such as: graphic design, architectural design, landscaping design, manufacturing design and interior design. Students will use drafting skills to produce detailed working drawings, sectionals, auxiliary, fasteners, and simple architectural floor plans. Students will also work in design teams to create pattern development and design and produce prototypes. They will be introduced to computer design software such as Google Sketch, SolidWorks, AutoCAD, and ArchiCad (Grade 10-12)

### **2220 – Intro to Technical Drawing/Design A**

Credits – 5

Meets Requirements: Elective

Prerequisite: Intro to Drafting and Design Concepts

This course develops skills in drafting and design of structures and products. This is accomplished by introducing a design process of refining sketches through technical hand and computer-aided drafting. The use of a CAD-CAM program will allow students to visually apply creative design elements to specific projects.

### **2205 – Robotics and Automated Systems A**

Credits – 5

Meets Requirements: Elective

Prerequisite: Principles of Engineering

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

# CTE – WOODWORKING AND CONSTRUCTION

## POSSIBLE PROGRAM PATHWAYS

Woodworking Pathway	Construction/Trades Pathway
Principles of Construction (2209) 5 Credits	
Woodworking 1 A (2282) 5 credits	Construction Technology (2230) 5 credits
Woodworking 1 B (2233) 5 credits	Construction Systems 1 A & B (2288 S1 and S2) 5 credits
Woodworking Tech 2A & B (2237/2240) 5 credits	
(2213) Work-Based Learning – Construction and Trades	

### **2209 – Principles of Construction**

Credits – 5

Meets Requirements: Elective

Prerequisite: none

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

### **2282/2233 – Woodworking A & B**

Credits – 5 each

Meets Requirements: Elective

Prerequisite: none

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

### **2230 – Construction Technology**

Credits – 5

Meets Requirements: Elective

Prerequisite: 2209 – Principals of Construction

This is the foundation course to basic residential construction. Students will demonstrate competencies that are nationally recognized by the construction industry. Students will learn and practice structural framing of floors, walls, ceilings, and roofs. This course also includes the use of basic construction tools and machinery, applied math, and an introduction to blueprint reading. This course teaches students industry safety including the use of all machines and tools.

### **2237/2240 – Woodworking Technology II A & B**

Credits – 5 each

Meets Requirements: Elective

Prerequisite: Woodworking A & B

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

### **2288S1/S2 – Construction Systems 1A & 1B**

Credits – 5

Meets Requirements: Elective

Prerequisite: 2230 – Construction Technology

Students in this class will learn about various facets of construction in both a classroom and hands-on setting. This program of study is intended to prepare students for careers in construction by developing an understanding of the different phases of a construction project from start to finish. Upon completion of this course, proficient students will be able to demonstrate knowledge and skill in the earlier phases of building construction, including site layout, foundation systems, framing systems, and electrical systems.

### **2213 – Work-Based Learning: Construction**

Credits – variable

Meets Requirements: Elective

Prerequisite: Woodworking or Construction Pathway

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



# FAMILY AND CONSUMER SCIENCES

## POSSIBLE PROGRAM PATHWAYS

Interior Design	Fashion Design	Culinary Arts	Education
4340 – Interior Design 1 - Residential	4390 – Fashion Design and Merchandising 1	4410 – Culinary Nutrition	4041 – Teen Choices
4341 – Interior Design 2 - Commercial	4391 – Fashion Design and Merchandising 2	4400 – Catering 1	4310 – Child and Adolescent Development
		4441 – Catering 2	
		4442 – Baking and Pastry A	
		4443 – Baking and Pastry B	
1391 – Work-Based Learning: Interior Design	1391 – Work-Based Learning: Fashion Design	9220 – Work-Based Learning: Culinary and Hospitality	4023S1/S2 – Teacher Cadet 1A and 1B

### **4041 – Teen Choices**

Credits – 5 each

Meets Requirements: Wellness

Prerequisite: None

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

### **4310 – Child and Adolescent Development**

Credits – 5

Meets Requirements: Elective

Prerequisite: None

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

### **4340/4341 – Interior Design 1 – Residential / Interior Design 2 – Commercial**

Credits – 5 each

Meets Requirements: Elective

Prerequisite: None/Design 1

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

### **4390/4391 – Fashion Design and Merchandising 1 & 2**

Credits – 5 each

Meets Requirements: Elective

Prerequisite: None/Design 1

This course is for students who are interested in learning about the fashion and merchandising industry. Students integrate knowledge, skills, and practices to evaluate potential career opportunities. Emphasis is placed on an introduction to fashion, fashion and textile selection, product construction and fashion merchandising. ***At WMHS, Level 2 emphasizes garment construction.***

### **1391 – Work-Based Learning: Interior/Fashion Design**

Credits – 5 each

Meets Requirements: Elective

Prerequisite: None/Design 1

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

### **4410 – Culinary Nutrition**

Credits – 5

Meets Requirements: Elective

Prerequisite: None

The purpose of this course is to develop lifelong, healthy individuals with an understanding of healthy and nutritious preparation techniques utilizing various resources and skills. Emphasis is placed on implementing healthy nutritional choices, preparing nutrient-dense seasonal foods, sports nutrition, exploring careers related to culinary nutrition, and practicing wise consumer.

**4440/4441 – Catering 1/Catering 2**

Credits – 5 each

Meets Requirements: Elective

Prerequisite: Culinary Nutrition/Catering 1

This program is designed for students with career interests in the food industry as well as owning their own catering business. The purpose of this course is to develop skills in quantity food preparation, safety and sanitation, planning, customer service, business plans and entrepreneurship. FCCLA is also an integral part of this course.

**4442/4443 – Baking and Pastry A/B**

Credits – 5 each

Meets Requirements: Elective

Prerequisite: Catering 2

This course is intended for students interested in pursuing a career in the hospitality and culinary industry. Combining advanced food science, restaurant management, food preparation techniques, and real-world internship opportunities, students, through baking and pastry arts, students learn to develop their culinary skills and food knowledge to become employable and sought-after employees by local foodservice businesses.

**9220 – Work-Based Learning: Culinary and Hospitality**

Credits – variable

Meets Requirements: Elective

Prerequisite: Completion of Foods Pathway

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

**4023S1/S2 – Teacher Cadet 1A and 1B – NOT CURRENTLY OFFERED AT WMHS**

Credits – 5 each

Meets Requirements: Elective

Prerequisite: 4019 – Educational Explorations and either 4310 or 7290

This full year course is designed for students who have a strong interest in, or who are considering a career related to, the occupation of "teacher" at any age or grade level. Students will complete self-assessments, participate in individual and group projects, complete observations at various ages and stages of learning, and increase their understanding of themselves and others as "learners". The culminating event in this class is 50 hours of field experience during second semester at an area school where students will plan and deliver lessons under the supervision of a cooperating teacher.

# PERFORMING ARTS OFFERINGS

## **2865/2860S1/S2 – Concert Orchestra/Symphony Orchestra**

Credits – 10 each

Meets Requirements: Fine/Applied Arts, Elective

Prerequisite: MS Orchestra

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 an advanced band. Based on numbers of registrants, this class may be broken into an upper and lower group. Performances are required.

## **2559/2563S1/S2 – Treble Choir/Tenor-Bass Choir**

Credits – 10 each

Meets Requirements: Fine/Applied Arts, Elective

Prerequisite: none

These groups are open for all singers. 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. Performances are required.

## **2800/2805S1/S2 – Concert Band/Symphonic Band**

Credits – 10 each

Meets Requirements: Fine/Applied Arts, Elective

Prerequisite: MS Band

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 intermediate skill level is presented. Based on numbers of registrants, this class may be broken into an upper and lower group. Performances are required.

## **2893 – Jazz Combo**

Credits – arranged

Meets Requirements: Fine/Applied Arts, Elective

Prerequisite: Co-Enrolled in a band class

This group of students studies several styles of jazz, blues, etc., with an emphasis on improvising. The student will have several performance opportunities. Students must be a member of a core ensemble.

### **2512 – Music Production/Technology**

Credits – 5

Meets Requirements: Fine/Applied Arts, Elective

Prerequisite: none

This 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 semester.

### **2635 – Beginning Class Piano**

Credits – 5

Meets Requirements: Fine/Applied Arts, Elective

Prerequisite: none

This course is designed to introduce students to basic piano playing techniques which will include the study of fundamental theory in reading and playing notes, rhythms, chords, scales, and accompaniment styles.

### **2636 – Piano 2**

Credits – 5

Meets Requirements: Fine/Applied Arts, Elective

Prerequisite: Beginning Piano or Instructor Approval

This course is a continuation of piano playing techniques acquired in Beginning Piano that will expand upon the study of fundamental theory in reading and playing notes, rhythms, chords, scales, and accompaniment styles.

### **2560 – Guitar**

Credits – 5

Meets Requirements: Fine/Applied Arts, Elective

Prerequisite: none

This course is designed to train students in techniques which include fundamental theory in reading and playing notes, rhythms, chords, scales, and accompaniment styles.

**2561 – Guitar 2**

Credits – 5

Meets Requirements: Fine/Applied Arts, Elective

Prerequisite: Guitar 1 or Instructor Approval

Guitar II will study the intermediate and advanced concepts in guitar and music theory. The course will cover the blues, including composers, style, and techniques. Then the course moves to playing popular music. This will be done as part of a two- or four-person ensemble. Finally, the course will cover performance of Rock 'N Roll and Heavy Metal.

**5227 – Intro to Acting**

Credits – 5

Meets requirements: Fine and Applied Arts

This 5 credit class emphasizes acting skills such as improvisation, scene work, oral interpretation, and reader's theater. Students learn techniques for confidence on stage: relaxation & imagination.

**5229 – Theatre Foundations**

Credits – 5

Meets requirements: Fine and Applied Arts

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.

**5231 – Theatre Practicum – *this class is the fall Theatrical Production at WMHS***

Credits – 5

Meets requirements: Fine and Applied Arts

Theater Practicum includes many advanced aspects of the theater: acting, directing, set construction and design, lighting, sound, and play writing. This class places emphasis on the student as worker. Audition is required for this course.

**5237 – Musical Theatre Production – *this class is the spring Musical Production at WMHS***

Credits – 5

Meets requirements: Fine and Applied Arts

This 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 theater, and marketing. Audition is required for this course.

# LEADERSHIP COURSE OPPORTUNITIES

## **8104S1/S2 – Student Council S1 & S2**

Credits – 10

Meets requirements: Elective

Prerequisite: Application

In Student Council, students will learn and practice all areas of leadership. They will become skilled in the art of leadership and work as a team to create positive change and exciting activities for school. It is expected that students will fulfill a course requirement of numerous extra hours outside of the normal school day working on Council activities.

## **8107S1/S2 – Ambassadors S1 & S2**

Credits – 10

Meets requirements: Elective

Prerequisite: Application

This is a servant leadership class that focuses on school and community outreach and building leadership capacity for students. Activities include peer education on sexual assault and harassment prevention, teen dating violence prevention, mental health awareness and suicide prevention, and welcoming new students to our school. Student Ambassadors serve as mentors to peers in our school as well as to elementary aged students at local Elementary schools. This is an application based and interview-based class.

## **Future Farmers of America - club**

Credits – variable

Meets requirements: Elective

Prerequisite: Application – and enrollment in a FFA pathway

**Link Crew** – future offering to assist 9<sup>th</sup> graders in their transition to High School

# CREDIT RECOVERY AND SUPPORT

## **9999S1/S2 – Mind Center**

Credits – 5

Meets requirements: Elective

Prerequisite: Application or Recommendation

Academic social and emotional support for students who are considered: at risk for earning their high school diploma, disengaged from high school, or in need of extra support in a small setting to continue to be successful in a large school setting. Attendance and classroom progress are monitored on a weekly basis. Prerequisite: Teacher, counselor, or administrator recommendation.

# Other Programming offered in PSD

(not on the WMHS campus)

## Junior ROTC (hosted at PHS)

The [Junior Reserve Officers Training Corps](#) (JROTC) program in PSD is hosted at Poudre High School. The program is a semester class that takes the place of 2 block periods at WMHS in either the morning or the afternoon. Transportation is provided.

If you are interested and would like to learn more, visit the [JROTC website](#) or complete this [FORM](#).

You can also reach out to SFC (R) Joel Kruschke – [jkruschke@psdschools.org](mailto:jkruschke@psdschools.org) or CPT (R) Roy Ruby – [rroybyiii@psdschools.org](mailto:rroybyiii@psdschools.org)

## Career Technical Center (hosted at PHS)

The CTC is a PSD sponsored experience that is at Poudre High School. The programs offer semester-length classes that take the place of 2 block periods at WMHS in either the morning or the afternoon. Transportation is provided. They have programs in the following areas:

- Audio Production
- Automotive
- Aviation
- Behavioral Health
- Construction and HVAC
- Early Childhood Education
- Manufacturing
- Medical Assistant
- Natural Resources

More information can be found at <https://www.psdfutureready.org/ctc/> or by contacting Daryl Solomon - Site Director [dsolomon@psdschools.org](mailto:dsolomon@psdschools.org) or Emily Furtner - CTE Counselor [efurtner@psdschools.org](mailto:efurtner@psdschools.org)

## Front Range Community College classes

Through Concurrent Enrollment (page 7 – 8), students can take College classes for both HS and College credit. Some classes are offered on the WMHS campus and are taught by WMHS teachers (these classes are known as High School Select classes). Other classes are taught on the FRCC campus by FRCC teachers, or online by FRCC teachers (these classes are known as Campus Select classes). Wellington high school students have access to these classes. A complete listing can be found on the FRCC website. <https://www.frontrange.edu/concurrent-enrollment/lc/index.html>