

WCHS

2017-2018 COURSE GUIDE BOOK



THE MISSION OF WELD CENTRAL HIGH SCHOOL IS...

- to provide a safe learning environment where ALL students are encouraged to excel
- to hold ALL students accountable for their choices
- to provide ALL students with a rigorous, standards-based, and engaging curriculum
- to provide opportunities for ALL our students to be successful after high school
- to provide a collaborative, and professional staff that supports ALL students

TABLE OF CONTENTS

Graduation Requirements	3
State Graduation Guidelines	4
WCHS Class Offerings	5
Grade Point Average Distinctions	8
Concurrent Enrollment	8
Course Fees	11
Colorado Career Clusters	12

COURSE DESCRIPTIONS

Language Arts Flowchart	13
Language Arts	14
Mathematics Flowchart	19
Mathematics	20
Science Flowchart	24
Science	25
Social Studies Flowchart	28
Social Studies	29
Physical Education/Health	31
Foreign Language	34
Art FlowChart	35
Art	36
Theater/Music	38
Agricultural Science Flowchart	40
Agricultural Science	41
Business	44
Consumer and Family Studies	46
Digital Communication and Multimedia Technology	48
Engineering Technology	49
Industrial Arts	51
Special Education	52
Assistantships	53

GRADUATION REQUIREMENTS

Each student will take seven classes during each of the eight semesters in which they are enrolled, for a total of 28 possible credits. (.5 credits per class per semester). All students must have a full schedule.

Failed classes must be recovered during Credit Recovery, Summer School, or during the regular day where scheduling permits.

26 credits are required for Graduation (Effective for students who started Fall of 2013 or later). Required Graduation Credits are subject to change.

WCHS GRADUATION REQUIREMENTS

<u>CREDITS</u>	<u>AREA</u>
4.0	English
3.0	Mathematics
3.0	Science.
3.5	Social Studies (Personal Finance/Civics)
2.0	Physical Education (PE 1/Health)
.5	Career Exploration
10.0	Electives
26.0	TOTAL

COLORADO STATE GRADUATION GUIDELINES

As required by state statute (in section 22-2-106, C.R.S.), in September 2015, the Colorado State Board of Education adopted a comprehensive set of guidelines to be used by each school district's board of education in establishing requirements for students to receive a high school diploma. The guidelines have two purposes. The first is to articulate Colorado's shared beliefs about the value and meaning of a high school diploma. The second is to outline the minimum components, expectations, and responsibilities of local districts and the state to support students in attaining their high school diploma and in providing evidence to employers, military recruiters, training program and college admission teams that they are ready for the next step after high school.

Begins with Freshmen in 2017-2018 school year (Class of 2021)

<u>Competency Demonstration</u>	<u>English</u>	<u>Math</u>
ACCUPLACER	62 on Reading Comprehension	61 on Elementary Algebra
ACT	18 on ACT English	19 on ACT Math
ACT Compass	79	63
ACT WorkKeys - National Career Readiness Certificate	Bronze or higher	Bronze or higher
Advanced Placement	2	2
ASVAB	31	31
Concurrent Enrollment	Passing grade per district and higher education policy	Passing grade per district and higher education policy
District Capstone	Individualized	Individualized
Industry Certificate	Individualized	Individualized
International Baccalaureate	4	4
SAT	430	460
Collaboratively-developed, standards-based performance assessment	Statewide scoring criteria (In development)	Statewide scoring criteria (In development)

WCCHS CLASS OFFERINGS

ENGLISH 4.0 CREDITS			
9 TH	10 TH	11 TH	12 TH
<ul style="list-style-type: none"> • English I • Honors English I 	<ul style="list-style-type: none"> • English II • Honors English II 	<ul style="list-style-type: none"> • American Literature • CP American Literature 	<ul style="list-style-type: none"> • Shakespeare: Beyond Romeo and Juliet • Greek and Roman Mythology • CP British Literature • Wild Things • AP Literature • Speech • English Comp II (College)
<ul style="list-style-type: none"> • English Language Learners (NEP) • English Language Learners (LEP) • High School English 			

See Language Arts Category for class requirements and descriptions.

MATH 3.0 CREDITS	
<ul style="list-style-type: none"> • Algebra I • Geometry • Algebra II • CP Pre-Calculus • College Algebra • Intro to Stats • Business Math 	<ul style="list-style-type: none"> • Honors Algebra I • Honors Geometry • Honors Algebra II • AP Calculus • College Trigonometry • Survey of Calculus • High School Math

See Math Category for class requirements and descriptions.
(Pass Algebra I or equivalency with a D or better)

SCIENCE 3.0 CREDITS		
9TH	10TH-11TH	11TH-12TH
<ul style="list-style-type: none"> Physical Science Honors Physical Science 	<ul style="list-style-type: none"> Biology Honors Biology Chemistry Honors Chemistry 	<ul style="list-style-type: none"> AP Chemistry Anatomy & Physiology Physics CP Physics Astronomy Geology Environmental Science AP Biology

See Science Category for class requirements and descriptions.

SOCIAL STUDIES 3.5 CREDITS		
9TH	10TH	11TH-12TH
<ul style="list-style-type: none"> Foundations of Social Sciences 	<ul style="list-style-type: none"> The World 	<ul style="list-style-type: none"> US History AP US History Civics Economics Psychology Sociology

See Social Studies Category for class requirements and descriptions.

HEALTH 0.5 CREDIT
<ul style="list-style-type: none"> Health I

PHYSICAL EDUCATION 1.5 CREDIT	
9TH-10TH	10TH-12TH
<ul style="list-style-type: none"> Physical Education I Health I 	<ul style="list-style-type: none"> Fitness for Life Aerobics Dance Advanced Dance Athletic Training Foundations of Strength Training Advanced Strength Training

See PE Category for class requirements and descriptions.

Note: Any two seasons of participation in an extracurricular sporting activity will count as 0.5 credits up to 1.0 credit. Paperwork must be completed by the athlete and the coach and turned into the Counseling Office in order to receive this credit

CAREER EXPLORATIONS 0.5 CREDIT
<ul style="list-style-type: none"> Career Explorations

ELECTIVES 10.0 CREDITS

AGRICULTURE	<ul style="list-style-type: none"> ● Ag Science I ● Animal Science ● Vet Science ● Plant Science ● Horticultural Science 	<ul style="list-style-type: none"> ● Ag Mechanics I ● Ag Mechanics II ● Ag Business ● Ag Fabrication ● Ag Work Study
BUSINESS	<ul style="list-style-type: none"> ● Intro to Business ● Microsoft Office ● Digital Business Tech ● Accounting I ● Personal Finance 	<ul style="list-style-type: none"> ● Entrepreneurship I ● Entrepreneurship II ● Entrepreneurship III ● Business Office Education ● Business Work Study
CONSUMER AND FAMILY STUDIES	<ul style="list-style-type: none"> ● Culinary Nutrition ● Child Development/Parenting ● Fashion Design/Clothing 	<ul style="list-style-type: none"> ● Catering ● Independent Living
DIGITAL COMMUNICATION AND MULTIMEDIA	<ul style="list-style-type: none"> ● Photoshop I ● Photoshop II ● Computer Programming 	<ul style="list-style-type: none"> ● Yearbook I ● Yearbook II ● Yearbook III
INDUSTRIAL ARTS	<ul style="list-style-type: none"> ● Woodworking I ● Woodworking II 	<ul style="list-style-type: none"> ● Advanced Woodworking ● Furniture and Cabinet
FOREIGN LANGUAGE	<ul style="list-style-type: none"> ● Spanish I ● Spanish II ● Spanish III 	<ul style="list-style-type: none"> ● Spanish IV ● Spanish for Heritage Speakers
ENGINEERING TECHNOLOGY	<ul style="list-style-type: none"> ● Fundamentals of Drafting ● Computer Aided Drafting I ● Computer Aided Drafting II ● Computer Aided Drafting III 	<ul style="list-style-type: none"> ● Computer Aided Drafting IV ● 3D Architectural Drafting ● 3D Mechanical Drafting
ART AND GRAPHIC DESIGN	<ul style="list-style-type: none"> ● Foundations of Art A ● Foundations of Art B ● 3D Design ● Drawing ● Painting 	<ul style="list-style-type: none"> ● Studio Art ● Graphic Art ● Digital Photo I ● Digital Photo II ● Digital Photo III ● Independent Studio Art
THEATRE/MUSIC	<ul style="list-style-type: none"> ● Theater I ● Theater II ● Concert Band ● Jazz Band/Impressions 	<ul style="list-style-type: none"> ● Bel Canto ● Guitar I ● Guitar II ● Music Theory
SPECIAL EDUCATION	<ul style="list-style-type: none"> ● High School Study Skills ● High School Affective Education 	<ul style="list-style-type: none"> ● High School Transition
OTHER	<ul style="list-style-type: none"> ● Student Assistantship 	<ul style="list-style-type: none"> ● First Responder ● Athletic Training I

See Elective Category for class requirements and descriptions.

Grade Point Average Distinctions			
Letter Grades and grade point averages for individual classes will be computed using the following numerical scale			
Percentage	Regular Course	Honors (starting with the class of 2020/CP (through class of 2019)	Advanced Placement/ Concurrent Enrollment
90-100 = A	4.0=A	4.5=A	5.0=A
80-89 = B	3.0=B	3.5=B	4.0=B
70-79 =C	2.0=C	2.5=C	3.0=C
60-69 =D	1.0=D	1.5=D	2.0=D
00-59 =F	0.0=F	0.0=F	0.0=F

Concurrent Enrollment

Eligibility

- Concurrent Enrollment courses need to be deemed by an administrator/counselor to provide content that goes beyond that available in a Weld Central High School course. A maximum of 6 high school credits (36 postsecondary credits) from concurrent enrollment course work may be applied toward meeting graduation.
- Any course meant to satisfy a graduation requirement must be taken at Weld Central High School unless approved by administration/counselor. High school credit shall be denied for postsecondary courses that do not meet or exceed the district's academic standards. High school credit shall also be denied for a postsecondary course substantially similar to a course is approved due to a scheduling conflict or other reason deemed legitimate by administration.
- Students who participate in the Concurrent Enrollment program must pursue a more challenging curriculum and/or an alternative program to fit the needs of the student.
- All students participating in the Concurrent Enrollment program must complete an Individualized Career and Academic Plan (ICAP) prior to enrolling/starting a Concurrent Enrollment class and have a qualifying score on either the ACT, Accuplacer, or CCPT assessment.
- All Concurrent Enrollment classes must be taken through institutions of higher education during the regular school year. No summer courses are allowed for Concurrent Enrollment.
- Students must be under the age of 21 years to participate.
- **Students who do not pass their Concurrent Enrollment classes with a 70% or better may be placed on academic restriction for one semester and enrollment must be approved by an Advisor and Concurrent Enrollment Coordinator.**

Concurrent Enrollment Eligibility Scores

<u>Offered at WCHS</u>	<u>Accuplacer</u>	<u>ACT</u>
English Composition 121	Reading 80/Sentence 95	18
English Composition 122	Reading 80/Sentence 95	18
College Algebra	Elementary Level Math 85	23
College Trigonometry	College Level Math 55	24
Survey of Calculus	College Level Math 80	25
Introduction to Statistics	College Level Math 30	21

Aims Career Academy

Program	Course Number/Name	Credit
	Med Prep	
1st Semester	NUA 101 Nurse Aide Health Care Skills	4
	NUA 170 Nurse Aide Clinical Experience	1
	HPR 111 Success Seminar	1
2nd Semester	HR 140 Orientation to Health Careers	6
	Carpentry	
	Intro to Carpentry: 6 Credit Certificate	
1st Semester	CAR 100 Introduction to Carpentry	1
	CAR 102 Hand and Power Tools	1
	CAR 105 Job Site Layout/Blueprint Reading	1
	CAR 170 Clinical: Construction Lab I	3
	Carpentry Materials and Safety: 6 Credit Certificate	
2nd Semester	CAR 115 Form and Foundation Systems	1
	CAR 125 Roofing Materials and Methods	1
	CAR 133 Construction Framing and Safety	4
	CAR 136 Remodeling, Renovations/Additions	4
	Oil & Gas	
1st Semester	MAN 102 Business Ethics and Values	1
	MAN 117 Time Management	1
	MAN 125 Teambuilding	1
	PET 101 Petroleum Fundamentals	3
2nd Semester	AEC 223 Construction Safety/Loss Prevention	2
	ENY 101 Intro to Energy Technologies	3
	A One Credit Internship	
	Agri Business	
1st Semester	AGP 100 Practical Crop Production	4
	AGB 218 Computerized Farm Records	3
2nd Semester	AGE 210 Agriculture Marketing	3
	AME 125 Agriculture Machinery	3

Morgan Community College

	Welding (through Aims or Morgan)	
1st Semester	Safety for Welders	1
	Basic Shielded Metal Arc I	4
	Intro-Gas Metal Arc Welding	4
2nd Semester	Basic Shielded Metal Arc II	4
	Blueprint Read-Welders/Fitters	4

Courses may or may not be offered in the semester indicated

Process

- Students must indicate interest in the Concurrent Enrollment program by contacting their Academic Advisor.
- Students will work with their Academic Advisor and the Concurrent Enrollment Coordinator to enroll in the Concurrent Enrollment classes. Through this process students will complete the proper paperwork required by that institution.
- If the student is under the age of 18 they must have the student and parent signature on the 2nd page of the application.
- Male students that are 17 yrs., 11 months to age 21 must be registered with Selective Service ("The Draft"). If there are any questions on how and where to register, the student should contact their Academic Advisor. (They CANNOT be registered into any courses until the student is registered for Selective Service.)
- Students must have all paperwork completed prior to the first day of the semester of the institution of higher education they are attending.
- Students are responsible for providing an official transcript to Weld Central upon completion of a course or courses.
- Grades received from the Concurrent Enrollment institution will be included in the student's grade point average and will be weighted based on the Grade Point Average Distinction table on page 2.
- Upon successful completion of Concurrent Enrollment classes, Weld Central will grant 0.5 high school credit for each Concurrent Enrollment course of at least 3 credits.
- Courses without appropriate paperwork will not be added to official transcripts until all paperwork is complete.
- Financial Responsibilities
- The student is responsible for all fees in connection with any class taken under the Concurrent Enrollment program. These fees will include registration and lab fees. Examples of fees: Aims Community College- \$45 registration for up to 6 credits, \$60 for anything over 6 credits; Morgan Community College- \$12.05 total registration fee and \$6.35 per credit lab fee on computer, science, and music classes. All fees are subject to change from year to year.
- Weld County School District RE-3J will pay the tuition for 6 college credit hours per semester, up to 30 college credits/5 high school credits. Student may take additional classes at their own cost. A maximum of 6 high school credits (36 college credits) from Concurrent Enrollment coursework may apply toward meeting graduation requirements. Students who earn a "D" or "F" in their Concurrent Enrollment class will be charged for the tuition and the balance will be added to their fees. Fees must be paid before they can enroll in other Concurrent Enrollment courses.
- Weld County School District RE-3J will not provide or pay for the transportation of the student to any institution of higher education for Concurrent Enrollment courses.
- Note: Exceptions can be made by Administration and the Counseling Department deemed necessary due to the environmental needs of the student. Exceptions will include: at-risk students, advanced students, physical disabilities, and vocational needs of the student.

Course Fees

Fees are subject to change each year

Department	Class	Fee per Semester (unless otherwise noted)
Agriculture	Ag I	\$30
	Ag Business/Leadership	\$20
	Ag Mechanics I, II	\$30
	Ag Fabrication	\$30
	Horticulture Science	\$20
	Plant Science	\$20
	Animal Science	\$20
	Vet Science	\$20
Art	Foundations of Art	\$20
	3D Design	\$20
	Drawing	\$20
	Painting	\$20
	Studio Art	\$20
	Digital Photo 1, 2, 3	\$20
Business	Entrepreneurship I, II, III	\$20 (per year)
Consumer/Family Studies	Culinary Nutrition	\$20
	Catering	\$30
	Fashion Design/Clothing	\$20
Class Fees (per year)	All Grades	\$20
Engineering Technology	Drafting/Tech Drawing	\$10
Industrial Arts	Woods I	\$45 + cost of wood projects (per year)
	Woods II, III	\$30 + cost of wood projects (per year)
	Furniture and Cabinetry	\$30 + cost of wood projects (per year)
Music and Theater	Band	\$20 (per year)
	Music Theory	\$20 (per year)
Physical Education	First Responder	\$30 Certification Fee (optional)
	Physical Education	\$10
Science Class	All Classes	\$10
Athletics Participation Fee	Per Sport (2 sport fee cap)	\$100
Activity/Club Participation Fee NHS & Student Council	Per Club (2 club fee cap)	\$25 EXEMPT
Student Activity Pass	Per Year	\$30

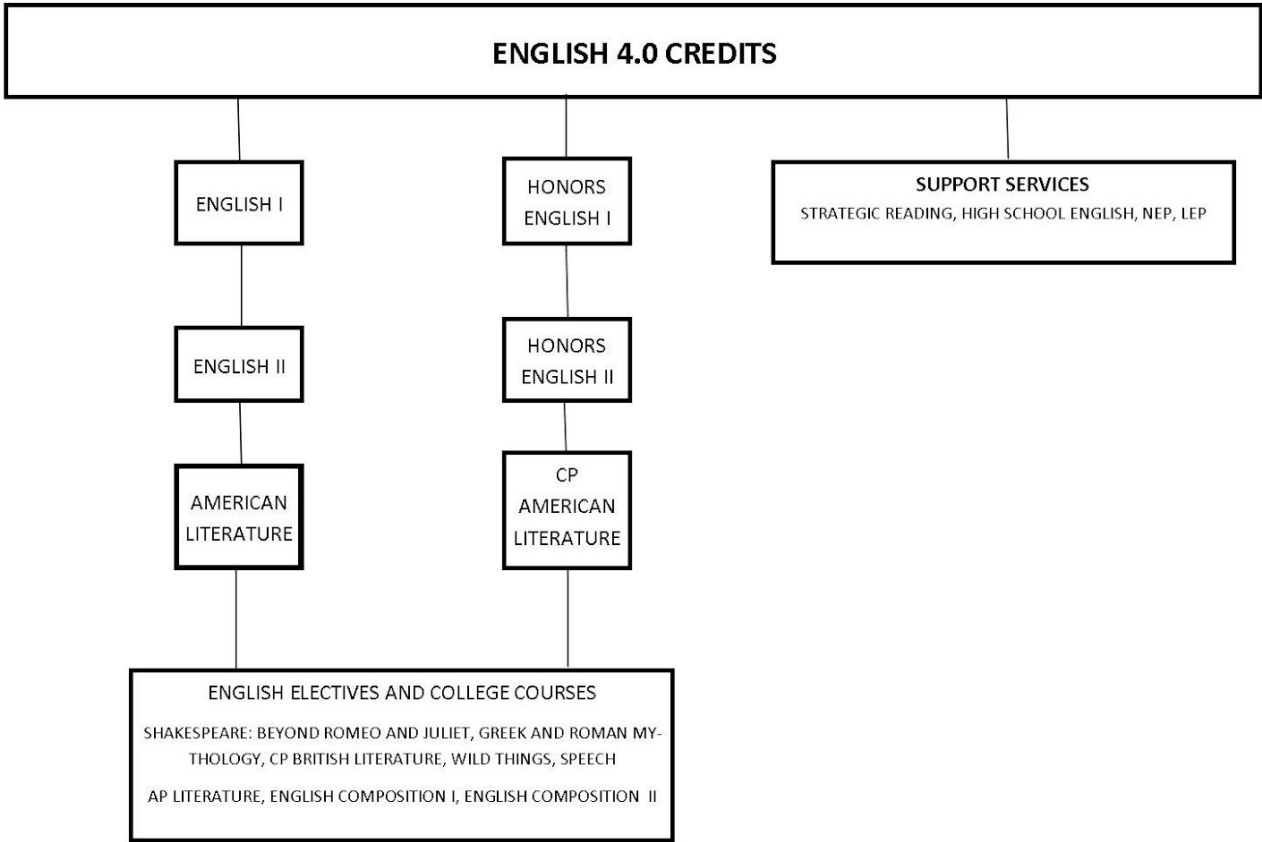
All fees must be paid at the beginning of EACH semester or your student will not be able to participate in extracurricular activities. Payment options may be discussed with school administration. If the payment of fees is a hardship, you can set up a payment plan by contacting the front office.

Colorado Career Clusters

Foundation Knowledge & Skills for all Career Pathways include:

Academic Content Knowledge~Civic Responsibility~Communication~Collaboration
 Creativity & Innovation~Critical Thinking/Problem Solving~Find/Use information Technology~Global & Cultural Awareness~
 Personal Responsibility~Work Ethic

<p>Business and Public Administration</p> <p>Management & Administration</p> <ul style="list-style-type: none"> Administrative Services Business Information Technology Corporate/General Management Human Resource Management Operations Management <p>Marketing</p> <ul style="list-style-type: none"> Marketing Communications Marketing Management Marketing Research Merchandising Professional Sales/Sales Management <p>Finance</p> <ul style="list-style-type: none"> Accounting Banking Services Corporate Finance Insurance Securities & Investments <p>Government & Public Administration</p> <ul style="list-style-type: none"> Foreign Service Governance Legal Services Planning Public Management & Administration Regulation Revenue & Taxation 	<p>Science, Technology, Engineering & Math, Arts, Design & Information Technology</p> <p>STEM (Science, Technology, Engineering, & Math)</p> <ul style="list-style-type: none"> Research, Exploration, & Innovation Design, Development, & Application <p>Arts, A/V Technology, & Communication</p> <ul style="list-style-type: none"> Audio/Video Technology & Film Journalism & Broadcasting Performing Arts Printing/Publishing Visual & Design Arts <p>Information Technology</p> <ul style="list-style-type: none"> Information Support and Services Interactive Media Network Systems & Telecommunications Programming & Software Engineering 	<p>Skilled Trades & Technical Sciences</p> <p>Architecture & Construction</p> <ul style="list-style-type: none"> Construction Design & Pre-construction Maintenance & Operations <p>Manufacturing</p> <ul style="list-style-type: none"> Health, Safety, & Environmental Assurance Logistics & Inventory Control Manufacturing Production Maintenance, Installation & Repair Production/Process Technology Quality Assurance <p>Transportation, Distribution & Logistics</p> <ul style="list-style-type: none"> Facility & Mobile Equipment Maintenance Health, Safety & Environmental Management Logistics, Planning & Management Services Planning Management & Regulations Sales & Services Transportation Operations Transportation/Systems Infrastructure Warehousing & Distribution Center Operations
<p>Agricultural & Natural Resources</p> <p>Agriculture, Food & Natural Resources</p> <ul style="list-style-type: none"> Animal Science Agribusiness Systems Environmental Service Systems Food Products & Processing Systems Natural Resources Plant Science Power, Structural & Technical Systems <p>Energy</p> <ul style="list-style-type: none"> Fossil ENergy Production Transmission & Distribution Production Process Technology Renewable Energy Production Energy Research 	<p>Hospitality, Human Services & Education</p> <p>Hospitality & Tourism</p> <ul style="list-style-type: none"> Lodging Recreation, Amusements & Attractions Restaurants, Food & Beverage Services Travel & Tourism <p>Human Services</p> <ul style="list-style-type: none"> Consumer Services Counseling & Mental Health Services Early Childhood Development Family & Community Services <p>Education & Training</p> <ul style="list-style-type: none"> Administration & Admin. Support Professional Support Services Teaching and Training Support 	<p>Health Sciences & Public Safety</p> <p>Health Science</p> <ul style="list-style-type: none"> Biotechnology Research & Development Diagnostic Services Supportive Services Health Information Therapeutic Services <p>Law, Public Safety, Corrections & Security</p> <ul style="list-style-type: none"> Correction Services Emergency & Fire Management Services Law Enforcement Services Security & Protective Services



LANGUAGE ARTS

Strategic Reading

01067.1/01067.2

Grade Level	9-12	Credit	1
Length	1 year	Category	Elective
Prerequisite	None		

Students are placed in this course based on their state and local assessment scores in English and Reading. This needs-based reading course utilized data to determine appropriate areas of instruction. The course offers diagnostic and remedial activities designed to improve reading skills and habits that interfere with student progress in developing reading skills and understanding the relationship between reading and writing. Activities are chosen to improve student's reading and writing techniques, comprehension, and general literary skills, complemented by additional technology to accelerate reading competency. Focus of the course is on the skill level of the individual student. Each student will be progress monitored continually throughout the course to document achievement toward grade level skill mastery. Reading, writing and research-based projects will be required.

English I

01001.1/01001.2

Grade Level	9	Credit	1
Length	1 year	Category	English
Prerequisite	None		

This course builds upon a student's prior knowledge of grammar, vocabulary, word usage, and the mechanics of writing and incorporates the four aspects of language use: reading, writing, speaking/listening, and research/reasoning, based on the Colorado Academic Standards. Students will demonstrate writing composition skills in grammar, language usage, mechanics, spelling, and vocabulary. Composition stresses content, style/fluency, organization, and writing process skills (drafting, editing and revision). Students will employ various sentence structures in writing paragraphs and short essays. Using informational literacy skills (accessing, processing, summarizing, and analyzing information) will be an essential component of their reading and writing.

Honors English I

01001.1H/01001.2H

Grade Level	9	Credit	1
Length	1 year	Category	English
Weight	4.5		
Prerequisite	Strong/distinguished command on standardized testing and teacher recommendation		

Due to the extensive depth and breadth of literature studied, the pace and challenge of this course is advanced. This course specifically models the rigor students will find in college courses in both composition and reading. The course builds upon a student's prior knowledge of grammar, vocabulary, word usage, and the mechanics of writing. The course incorporated the four aspects of language use: reading, writing, speaking/listening, and research/reasoning, based on the Colorado Academic Standards. Students will explore a variety of genres, including short stories, drama, novels, poetry, and nonfiction. The student will demonstrate writing composition skills and grammar, language usage, mechanics, spelling, and vocabulary. Composition stresses content, style/fluency, organization, and writing process skills (drafting, editing and revision). Students will employ various sentence structures in writing paragraphs and both short and extended essays. Using informational literacy skills (accessing, processing, summarizing, and analyzing information) will be essential component of their reading and writing. Students will be expected to complete a standards-based capstone project. **Students must apply and be accepted for Language Arts Honors/College Prep courses. Applications are available from any English teacher during spring registration.**

English II

01002.1/01002.2

Grade Level	10	Credit	1
Length	1 year	Category	English
Prerequisite	English I or Honors English I		

This course offers a balanced focus on composition and literature. Students will present writing to an authentic audience for an intended purpose by writing narrative, persuasive, and creative multi-paragraph essays and compositions. The students will continue to explore a variety of genres including short stories, drama, novels, poetry, and nonfiction, while applying the four aspects of language arts: reading, writing, speaking/listening, and research/reasoning, based on the Colorado Academic Standards. Students can also improve their reading fluency and comprehension, develop the skills to determine the author's purpose, and recognize the techniques used by the author to deliver his or her message. Students will complete a standards-based and self-directed research project.

LANGUAGE ARTS

Honors English II

01002.1H/01002.2H

Grade Level	10	Credit	1
Length	1 year	Category	English
Weight	4.5		

Prerequisite English I or Honors English I

Due to the extensive depth and breadth of literature studied, the pace and challenge of this course is advanced. This course specifically models the rigor students will find in college courses in both composition and reading. This course offers a balanced focus on composition and literature. Students will present writing to an authentic audience for an intended purpose by writing narrative, persuasive, and creative multi-paragraph essays and compositions. The students will continue to explore a variety of genres including short stories, drama, novels, poetry, and nonfiction, while applying the four aspects of language use: reading, writing, speaking/listening, and research/reasoning, based on the Colorado Academic Standards. Students can also improve their reading fluency and comprehension, develop the skills to determine the author's purpose, and recognize the techniques used by the author to deliver his or her message. Students will complete a standards-based and self-directed research project. **Students must apply and be accepted for Language Arts Honors Courses. Applications are available from any English teacher during spring registration.**

American Literature

01054.1/01054.2

Grade Level	11	Credit	1
Length	1 year	Category	English

Prerequisite English II or Honors English II

Students will explore the history of literature in America from Puritan to modern times using a variety of genres including novels, poetry, drama and nonfiction. 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 the literature course and written compositions are required. The student will construct evidence-based writing for a variety of purposes with an emphasis on clarity, organization, form, grammar, mechanics, and content. Research supported writing is required in multiple formats. Through these genres students will recognize this literature as a record of human experience.

College Prep American Literature

01054.1CP/01054.2CP

Grade Level	11	Credit	1
Length	1 year	Category	English
Weight	4.5		

Prerequisite English II or Honors English II

Due to the extensive depth and breadth of literature studied, the pace and challenge of this course is advanced. This course specifically models the rigor students will find in college courses in both composition and reading. Students will explore the history of literature in America from Puritan to modern times using a variety of genres including novels, poetry, drama and nonfiction. American literature courses focus upon commonly known American authors and their work. Students improve their critical thinking skills as they analyze texts to determine the underlying assumptions and values within the selected works and to understand how the literature reflects the society of the time. Oral discussion is an integral part of the literature course and written compositions are required. The student will construct evidence-based writing for a variety of purposes with an emphasis on clarity, organization, form, grammar, mechanics, and content. Research supported writing is required in multiple formats. Through these genres students will recognize this literature as a record of human experience. **Students must apply and be accepted for Language Arts Honors courses. Applications are available from any English teacher during spring registration.**

Shakespeare: Beyond Romeo and Juliet

01060.1/01060.2

Grade Level	11-12	Credit	0.5
Length	1 Semester	Category	English

Prerequisite Taking/have taken AM Lit or CP AM Lit

This course studies representative works of William Shakespeare in comedy, tragedy, history, and sonnets. Four plays will be read and studied so that students have a foundational knowledge of each play. Shakespeare's life and time in the web of history are also studied, with particular attention paid to the Globe playhouse during the Renaissance. Literary terms of DRAMA will be studied and utilized. Live plays will also be examined, with the resolution of students writing their own sonnets. A semester project is required.

Note: This class can only be taken once.

LANGUAGE ARTS

Greek and Roman Mythology and Plays

01063.1/01063.2

Grade Level	11-12	Credit	0.5
Length	1 Semester	Category	English

Prerequisite Taking/have taken AM Lit or CP AM Lit

The objective of this course is to introduce students to the study of Greek and Roman plays and myths. The students will study principle themes and concerns of Greek tragedy and myth, man's relationship with the gods and mortals, and the great deeds of heroes. The class includes a study of the Trojan War as the single most important event in classical mythology. A semester project is required.

Note: This class can only be taken once.

Wild Things-Mystery, Suspense, and Science Fiction

01065.1/01065.2

Grade Level	11-12	Credit	0.5
Length	1 Semester	Category	English

Prerequisite Taking/have taken AM Lit or CP AM Lit

This course will survey classic and contemporary literature from the mystery, horror, science fiction genres and will study the history and elements of each. Elements of the genres will be presented and discussed in conjunction with particular works. Objectives will include the consideration of definitions and the uses of mystery, suspense and science fiction for entertainment and social commentary. Students will develop active reading strategies that they can apply in other subjects as well. They will also examine the narrative devices of characterization, plot, theme, critical standards and literary value of the genres. Writing assignments and one semester project will be required. **Note:** This class can only be taken once.

College Prep British Literature

01056.1CP/01056.2CP

Grade Level	12	Credit	1
Length	1 year	Category	English
Weight	4.5		

Prerequisite Application Required

The pace of this course will be advanced. British Literature courses provide a survey of British Literature where students will explore the history of British literature and recognize this literature as a record of human experience. Students will expand the reading and writing standards in greater depth by critically analyzing and researching major works from Beowulf, Chaucer, and Shakespeare through contemporary literature by utilizing interpretive literary analysis in the study of major works from the Middle Ages through modern English literature. 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 and written compositions are integral parts of the course, and the student will write for a variety of purposes with an emphasis on clarity, organization, form, grammar, mechanics, and content.

Advanced Placement Literature and Composition

01006.1AP/01006.2AP

Grade Level	11-12	Credit	1
Length	1 year	Category	English
Weight	5.0		

Prerequisite Taking/have taken AM Lit or CP AM Lit

Following the College Board's suggested curriculum designed to parallel college-level English courses, AP Literature & Composition is a college literature course that exposes students to a vast amount of classic literature of varying genres, including drama, the novel, poetry, and the short story. All works studied support all AP and college-bound reading lists. The pace of AP Literature is advanced, with summer reading assignments and every-day homework during the school year. AP Literature contributes to the students' success in college level reading, as well as enabling them to synthesize and evaluate the literature of the ages with proficiency and to develop critical standards. Students study the language, character, action, and theme in works of recognized literary merit; enrich their understanding of connotation, metaphor, irony, syntax, and tone; and participate in higher level writing tasks, including literary analysis, exposition, argument, critical writing, numerous timed essays, and other analytical papers.

This course prepares the student to take the national AP Literature and Composition Exam at the conclusion of the school year. College credit may be earned if the student scores high enough on the AP test.

LANGUAGE ARTS

Speech

01151.1/011051.2

Grade Level	10-12	Credit	0.5
Length	1 semester	Category	English
Prerequisite	None		

Public speaking courses enable students, through practice to develop communication skills. Students will study the communication process and enhance their communication skills by developing their understanding of intrapersonal, interpersonal and group communications. The student will focus on public speaking and will speak for a variety of purposes to communicate clearly and effectively. In addition, students will organize appropriate speaking strategies and formats in order for the listeners to interpret and understand concepts with emphasis on language and delivery. Speech criteria may include research and organization analysis and critique, and development of self-confidence.

Journalism I

11101.1/11101.2

Grade Level	9-12	Credit	1
Length	1 year	Category	English
Prerequisite	None		

Students learn how to write using correct grammar, spelling, punctuation, sentence structure, and mechanics for a variety of purposes. They will learn the journalistic styles and techniques for writing news stories, feature stories, and editorials. Students will learn about journalistic law, ethics, responsibilities, technological use, and basic organizational concepts of journalistic layout and design.

English Composition I

ENG 121.1

Grade Level	11-12	Credit	0.5/3 college
Length	1 semester	Category	English
Weight	5.0		
Prerequisite	See note regarding keyboarding skills		

This course is geared towards college preparation and emphasizes the planning, writing, and revising of compositions while developing critical and logical thinking skills. This course includes a minimum of five compositions which emphasize analytical, evaluative, and persuasive/argumentative writing. ENG 121 is a state guaranteed transfer course and comes with a dual credit option. Proficiency in essay writing is required for a passing grade.

Note: This course requires that papers are written with the aid of a computer, so students must have adequate keyboarding skills. This course can only be taken once. This is a concurrent enrollment course through Weld Central and Aims Community College. Eligibility scores can be found under Concurrent Enrollment information.

Fee: Student will be responsible for fees assessed by their attending college.

English Composition II

ENG 122.2

Grade Level	11-12	Credit	0.5/3 college
Length	1 semester	Category	English
Weight	5.0		
Prerequisite	See note regarding keyboarding skills		

This course is also geared towards college preparation and expand and refines the objectives of English Composition I. ENG 122 emphasizes critical and logical thinking, problem definition, research strategies, and writing analytical, evaluative, and/or persuasive papers that incorporate research. ENG 122 is a state guaranteed transfer course and comes with a dual credit option.

Note: This course requires that papers are written with the aid of a computer, so students must have adequate keyboarding skills. This course can only be taken once. This is a concurrent enrollment course through Weld Central and Aims Community College. Eligibility scores can be found under Concurrent Enrollment information.

Fee: Student will be responsible for fees assessed by their attending college.

LANGUAGE ARTS

High School English

01999.1/01999.2

Grade Level	9-12	Credit	1
Length	1 year	Category	English
Prerequisite	Advisor Placement		

The content of this class provides instruction in basic language skills and integrating reading, writing, speaking and listening while placing emphasis on the progress of the individual student. Curriculum content depends on the student-identified needs in the areas of vocabulary building, spelling and grammar, writing and composition skills, reading fluency and comprehension and other identified needs. Standards will be based according to each student's Individualized Education Plan (IEP).

English Language Learners (NEP)

01008.1NEP/01008.2NEP

Grade Level	9-12	Credit	1
Length	1 year	Category	Elective/up to 1 English credit
Prerequisite	None		

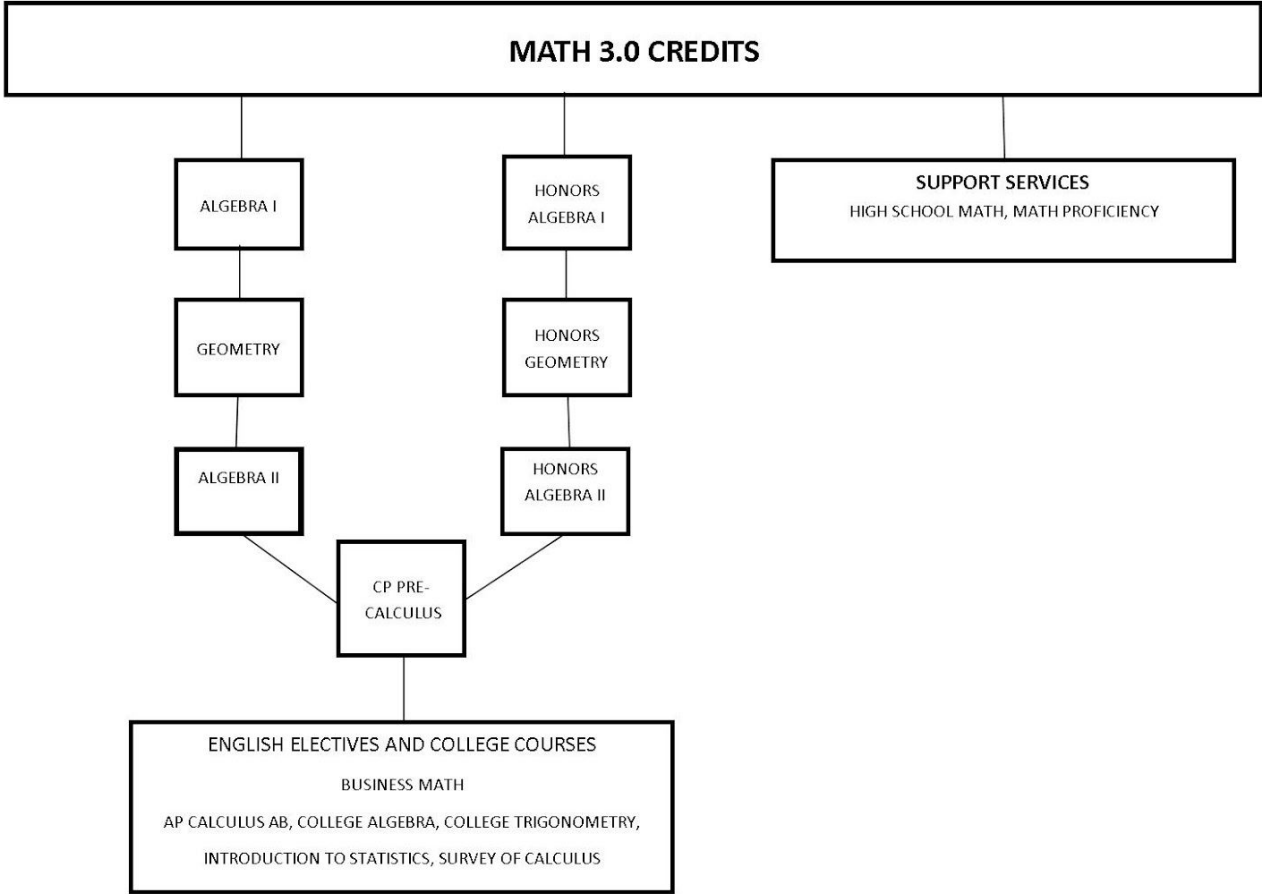
Students in this program are classified as having a level 1-2 English language skills on the ACCESS (Assessing Comprehension and Communication in English state-to-state for English Language Learners). English as a Second Language (ESL) courses are designed for the rapid mastery of the English language, focusing on reading, writing, speaking, and listening skills. Non-English Proficiency (NEP) courses usually begin with extensive listening and speaking practice, building on auditory and oral skills, and then move on to reading and writing. These courses provide an explanation of basic structures of the English language, enabling students to communicate in social and academic settings. ESL classes may also include an orientation to the customs and culture of the diverse population in the United States.

English Language Learners (LEP)

01008.1LEP/01008.2LEP

Grade Level	9-12	Credit	1
Length	1 year	Category	Elective/up to 1 English credit
Prerequisite	None		

Students in this program are classified as having level 3-4 English language skills on the ACCESS (Assessing Comprehension and Communication in English state-to-state for English Language Learners). English as a Second Language (ESL) courses are designed for the rapid mastery of the English language, focusing on reading, writing, speaking, and listening skills. Limited English Proficiency (LEP) courses begin with extensive reading and writing skills. These courses provide an explanation of the structure of the English Language, enabling students to communicate in social and academic settings. ESL classes may also include an orientation to the customs and culture of the diverse population in the United States.



MATHEMATICS

Algebra I

02052.1/02052.2

Grade Level	9-10	Credit	1
Length	1 year	Category	Math
Prerequisite	None		

The Algebra I course includes studying properties and operations of the real number system; evaluating rational algebraic expressions; solving and graphing first degree equations and inequalities; translating word problems into equations; operating with and factoring of polynomials; and solving simple quadratic equations.

Note: A scientific or graphing calculator is highly recommended for this course.

Note: 8th graders will take a placement test in April of their 8th grade year to determine high school math placement.

Honors Algebra I

02052.1H/02052.2H

Grade Level	9	Credit	1
Length	1 year	Category	Math
Weight	4.5		
Prerequisite	Placement test and 8th grade teacher recommendation		

The standards in the Honors Algebra I course will be the same standards taught and learned in the Algebra I course. The content covered will be more in-depth than in the regular course. The class will be more rigorous, in-depth and challenging through knowledge gained in classwork and assessments. This course includes studying properties and operations of the real number system; evaluating rational algebraic expressions; solving and graphing first degree equations and inequalities; and translating word problems.

Note: A scientific or graphing calculator is required for this course.

Note: 8th graders will take a placement test in April of their 8th grade year. The results of this test combined with their NWEA scores will be used to determine math placement.

Geometry

02072.1/02072.2

Grade Level	9-11	Credit	1
Length	1 year	Category	Math
Prerequisite	Passed Algebra I or equivalent with a D or better		

The Geometry course emphasizes an abstract, formal approach to the study of geometry, including topics such as properties of plane and solid figures; deductive methods of reasoning and use of logic; geometry as an axiomatic system including the study of postulates, theorems, and formal proofs; concepts of congruence, similarity, parallelism, perpendicularity, and proportion; and the rules of angle measurement in triangles.

Note: A scientific or graphing calculator is recommended for this course.

Honors Geometry

02072.1H/02072.2H

Grade Level	9-10	Credit	1
Length	1 year	Category	Math
Weight	4.5		
Prerequisite	Passed Algebra I or Honors Algebra I or equivalent with a D or better or Placement Test with a teacher recommendation.		

The pace and challenge of this course will be advanced. This course is designed for students who want to develop the skills necessary for success in college courses. The Honors Geometry course emphasizes an abstract, formal approach to the study of geometry, including topics such as properties of plane and solid figures; deductive methods of reasoning and use of logic; geometry as an axiomatic system including the study of postulates, theorems, and formal proofs; concepts of congruence, similarity, parallelism, perpendicularity, and proportion; and the rules of angle measurement in triangles.

Note: A scientific or graphing calculator is required for this course.

Note: 8th graders will take a placement test in April of their 8th grade year to determine high school math placement.

MATHEMATICS

Algebra II

02056.1/02056.2

Grade Level	10-12	Credit	1
Length	1 year	Category	Math

Prerequisite Passed Geometry or Honors Geometry with a D or better

Algebra II course topics include field properties and theorems; set theory; operations with rational and irrational expressions; factoring of rational expressions; in-depth study of linear equations and inequalities; quadratic equations; solving systems of linear and quadratic equations; graphing constant, linear, and quadratic equations; properties of higher degree equations; and operations with rational and irrational exponents.

Note: A scientific graphing calculator is required for this course.

Honors Algebra II

02056.1H/02056.2H

Grade Level	10-11	Credit	1
Length	1 year	Category	Math
Weight	4.5		

Prerequisite Passed Geometry or Honors Geometry with a D or better and Teacher Recommendation

The pace and challenge of this course will be advanced. This course is designed for students who want to begin to develop the skills necessary for success in college courses. CP Algebra II course topics include field properties and theorems; set theory; operations with rational and irrational expressions; factoring of rational expressions; in-depth study of linear equations; graphing constant, linear, and quadratic equations; properties of higher degree equations; and operations with rational and irrational exponents.

Note: A scientific graphing calculator is required for this course.

College Prep Pre-Calculus

02110.1CP/02110.2CP

Grade Level	11-12	Credit	1
Length	1 year	Category	Math
Weight	4.5		

Prerequisite Passed Algebra II or Honors Algebra II with a D or better

The pace and challenge of this course will be advanced.

This course is designed for students who want to begin to develop the skills necessary for success in college math courses or AP Calculus. Each student will undergo a rigorous approach to each subject in the material with ties to future calculus concepts. Pre-Calculus combines the study of Trigonometry, Elementary Functions, Analytic Geometry, and Math Analysis topics as preparation for Calculus. Topics include the study of complex numbers; polynomial, logarithmic, exponential, rational, right trigonometric, and circular functions, and their relations, inverses and graphs; trigonometric identities and equations; solutions of right and oblique triangles. Possible other topics may include vectors; the polar coordinate system; conic sections; symbolic logic; mathematical inductions; matrix algebra; sequences and series; and limits and continuity.

Note: A graphing calculator is required: TI-83 Plus or higher. TI-84 Plus is recommended.

Advanced Placement Calculus AB

02124.1AP/02124.2AP

Grade Level	11-12	Credit	1
Length	1 year	Category	Math
Weight	5.0		

Prerequisite Completed CP Pre-Calculus, College Algebra or College Trig

Following the College Board's suggested curriculum designed to parallel college-level calculus courses, AP Calculus AB provides students with an intuitive understanding of the concepts of calculus and experience with its methods and applications. This course introduces calculus and includes the following topics; elementary functions; properties of functions and their graphs; limits and continuity; differential calculus (including definition of the derivative, derivative formulas, theorems about derivatives, geometric applications, optimization problems, and rate-of-change problems); and integral calculus (including anti-derivatives and the definite integral).

Note: A TI-84 Plus scientific graphing calculator is required.

Note: This course prepares the student to take the National AP Calculus Exam at the conclusion of the school year. College credit may be earned if the student scores high enough on the AP Test.

MATHEMATICS

College Algebra

MAT 121.1

Grade Level	11-12	Credit	0.5/4 college
Length	1 Semester	Category	Math
Weight	5.0		
Prerequisite	Completed Honors Algebra II or Algebra II and/or Accuplacer score must meet or exceed current Aims CC requirement for placement.		

This course includes equations and inequalities, functions and their graphs, exponential and logarithmic functions, linear and non-linear systems, graphing of the conic sections, introductions to sequences and series, permutations and combinations, the binomial theorem, theory of equations and an introduction to matrices and determinants.

Note: This course can only be taken once.

Note: This is a concurrent enrollment course through Weld Central and Aims Community College. Eligibility scores can be found under Concurrent Enrollment information.

Fee: Student will be responsible for fee assessed by their attending college.

College Trigonometry

MAT 122.2

Grade Level	11-12	Credit	0.5/3 college
Length	1 Semester	Category	Math
Weight	5.0		
Prerequisite	Completed College Algebra		

This is a traditional prerequisite course to the calculus sequence. Topics include trigonometric functions (with graphs and inverse functions), identities and equations, solutions of triangles, complex numbers, vectors and topics in analytical geometry.

Note: This course can only be taken once.

Note: This is a concurrent enrollment course through Weld Central and Aims Community College. Eligibility scores can be found under Concurrent Enrollment information.

Fee: Student will be responsible for fee assessed by their attending college.

Introduction to Statistics

MAT 135.2

Grade Level	10-12	Credit	0.5/3 college
Length	1 Semester	Category	Math
Weight	5.0		
Prerequisite	Completed Honors Algebra II or Algebra II and/or Accuplacer score must meet or exceed current Aims CC requirements for placement.		

Introduction to Statistics includes data presentation and summarization, introduction to probability concepts and distributions, statistical inference, estimation, hypothesis testing, comparison of populations, correlation and regression.

Note: This course can only be taken once.

Note: This is a concurrent enrollment course through Weld Central and Aims Community College. Eligibility scores can be found under Concurrent Enrollment information.

Fee: Student will be responsible for fee assessed by their attending college.

Survey of Calculus

MAT 125.1/125.2

Grade Level	11-12	Credit	0.5/4 college
Length	1 Semester	Category	Math
Weight	5.0		
Prerequisite	Completed College Algebra		

Includes derivatives, integrals, and their applications, with attention restricted to algebraic, exponential, and logarithmic functions for business, life science, and/or social science majors.

Note: This course can only be taken once.

Note: This is a concurrent enrollment course through Weld Central and Aims Community College. Eligibility scores can be found under Concurrent Enrollment information.

Fee: Student will be responsible for fee assessed by their attending college.

MATHEMATICS

Business Math

02154.1/02154.2

Grade Level	11-12	Credit	1
Length	1 year	Category	Math

Prerequisite Completed Algebra 1 with a D or better

Business math reinforces general math skills, emphasizes speed and accuracy in computations, and uses these skills in a variety of business applications. General math topics (e.g. arithmetic, measurement, statistics, ratio and proportions, exponents, formulas, and simple equations) are reinforced by applying these skills to business problems and situations. Applications include wages, hourly rates, payroll deductions, sales, receipts, accounts payable and receivable, financial reports, discounts, and interest.

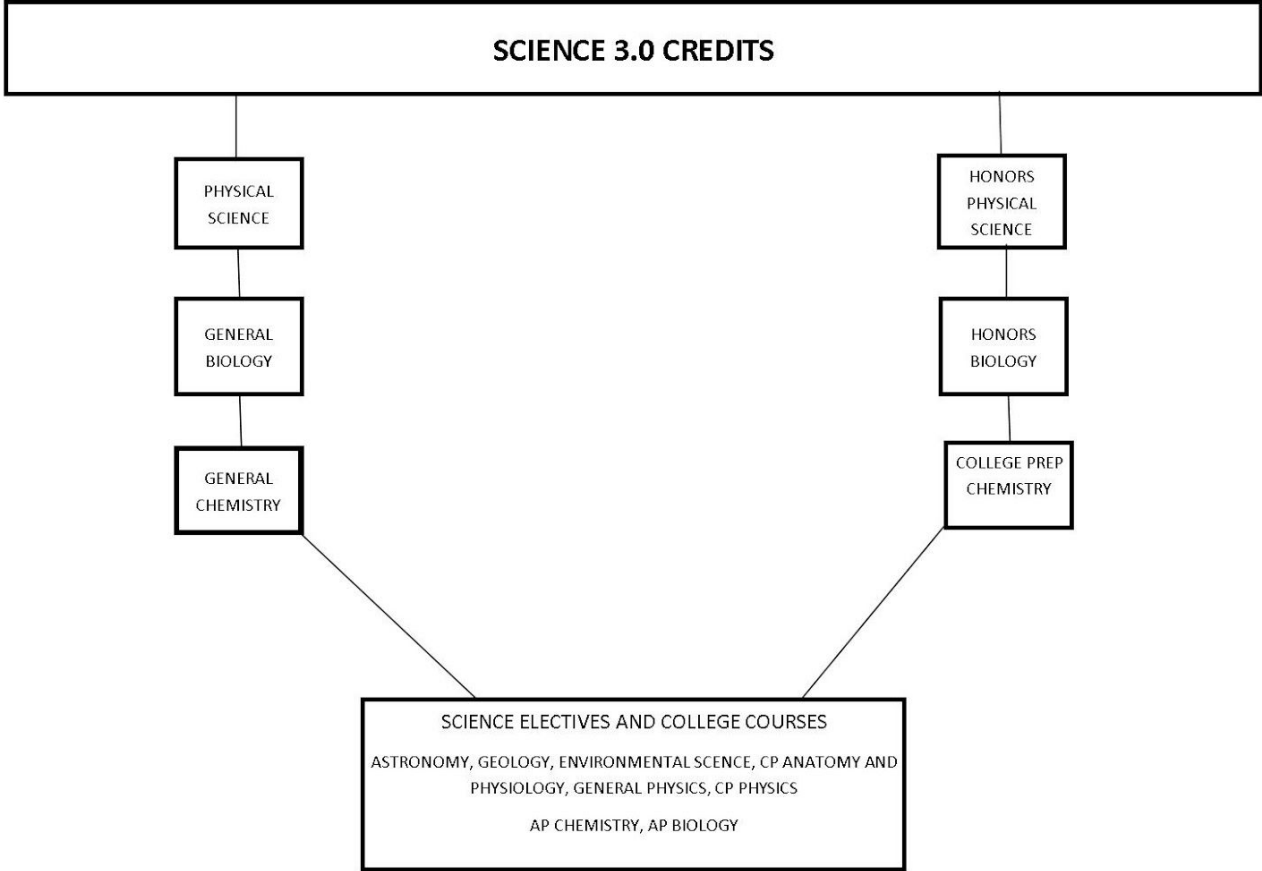
High School Math

02999.1-02999.2

Grade Level	9-12	Credit	1
Length	1 year	Category	Math

Prerequisite Advisor Placement

The content of this course is to reinforce and expand a student's foundational math skills, such as arithmetic operation and extends those skills to include some pre-algebra and algebra topics based on the Math curriculum and student-identified needs. Standards will be based according to each student's IEP.



SCIENCE

Physical Science

03201.1A/03201.2A

Grade Level	9	Credit	1
Length	1 year	Category	Science
Prerequisite	None		

Fee: \$10 per semester

This course is designed to give students a foundation understanding of science in the physical world. Students will be given the opportunity to begin developing the skills necessary for success in advanced high school and college courses. This course will include an in-depth introduction to physics and the earth sciences, including ecology and the environment.

Honors Physical Science

03201.1AH/03201.2AH

Grade Level	9	Credit	1
Length	1 year	Category	Science
Prerequisite	8th grade teacher recommendation	Weight	4.5

Fee: \$10 per semester

The pace and challenge of this course will be advanced. Strong math and reading comprehension skills are recommended. This course is designed for students who want to begin to develop the skills necessary for success in college prep courses. This course will include an investigation of physical and earth sciences. An introduction to physics and how it relates to everyday life will be given as well as a more in-depth coverage of earth science topics.

General Biology

03051.1/03052.1

Grade Level	10	Credit	1
Length	1 year	Category	Science
Prerequisite	Physical Science		

Fee: \$10 per semester

This course will introduce the basic principles of life science including biochemistry, biological structure and functions of cells, genetics, evolution, and human physiology. This course is recommended for students who are interested in pursuing a career outside of science.

Honors Biology

03051.1H/03051.2H

Grade Level	10	Credit	1
Length	1 year	Category	Science
Prerequisite	Physical Science or Honors Physical Science	Weight	4.5

Fee: \$10 per semester

The pace and challenge of this course will be advanced. Strong math and reading comprehension skills are recommended. This course will involve more in-depth exploration of life science topics including biochemistry, biological structure and function of cells, genetics, evolution, and human physiology. This course is recommended for students who are interested in pursuing a career in science.

General Chemistry

03101.1/03101.2

Grade Level	10-12	Credit	1
Length	1 year	Category	Science
Prerequisite	Completed/taking Honors/General Biology and Algebra I		

Fee: \$10 per semester

This course provides an introduction to the fundamentals of chemistry. Topics covered include the periodic table, atomic structure, stoichiometry, dimensional analysis, chemical equations, bonding and energy. This course is recommended for students who are interested in pursuing a career outside of science.

SCIENCE

College Prep Chemistry

03101.1CP/03101.2CP

Grade Level	10-12	Credit	1
Length	1 year	Category	Science
Prerequisite	Completed/taking Algebra II and Honors/General Biology	Weight	4.5

Fee: \$10 per semester

The pace and challenge of this course will be advanced.

Strong math and reading comprehension skills are recommended. This course will provide a more in-depth exploration of chemistry topics including the periodic table, atomic structure, stoichiometry, dimensional analysis, chemical equations, bonding and energy. This course is recommended for students who are interested in pursuing a career in science.

Advanced Placement Chemistry

03106.1AP/03106.2AP

Grade Level	11-12	Credit	1
Length	1 year	Category	Science
Prerequisite	Completed CP/ General Chemistry and Algebra II	Weight	5.0

Fee: \$10 per semester

Following the College Board's suggested curriculum designed to parallel college-level Chemistry courses. A strong foundation of chemistry and math are required. AP Chemistry topics covered in this class will include: atomic theory and structure; chemical bonding; nuclear Chemistry; states of matter; and reactions (stoichiometry, equilibrium, kinetics, and thermodynamics).

This course prepares the student to take the AP Chemistry Exam at the conclusion of the school year. College credit may be earned if the student scores high enough on the AP List.

Anatomy and Physiology

03053.1/03053.2

Grade Level	11-12	Credit	1
Length	1 year	Category	Science
Prerequisite	Completed/taking CP/General Chemistry and Algebra II		

Fee: \$10 per semester

Anatomy and Physiology is a 2 semester course that focuses on an integrated study of the human body including the histology, anatomy, and physiology of each system. First semester examines molecular, cellular, and tissue levels of organization plus integuments, skeletal articulations, muscular, nervous, and endocrine systems. Second semester focuses on cardiovascular, hematology, lymphatic and immune, urinary, fluid and electrolyte control, digestive, nutrition, respiratory, reproductive systems and human development.

General Physics

03151.1/03151.2

Grade Level	11-12	Credit	1
Length	1 year	Category	Science
Prerequisite	Completed/taking CP/General Chemistry and Algebra II		

Fee: \$10 per semester

This course provides an introduction to the fundamentals of physics. Topics covered include the mechanics of physics: motion, forces, momentum, and energy. This course is recommended for students who are interested in pursuing a career outside of science.

College Prep Physics

03151.1CP/03151.2CP

Grade Level	11-12	Credit	1
Length	1 year	Category	Science
Prerequisite	Completed/taking CP/General Chemistry and CP Trig/Pre-Calculus/College Algebra		
Weight	4.5		

Fee: \$10 per semester

The pace and challenge of this course will be advanced. Strong math and reading comprehension skills are recommended. This course will provide a more in-depth exploration of physics topics including the study of mechanics, sound, light, and astronomical motions. This course is recommended for students who are interested in pursuing a career in science.

SCIENCE

Astronomy

03004.1/03004.2

Grade Level	11-12	Credit	0.5
Length	1 semester	Category	Science
Prerequisite	Completed Physical Science or Honors Physical Science		

Fee: \$10 per semester

This course provides an intermediate exploration of astronomy. Topics covered include Earth's location in the universe, the solar system and man's understanding thereof.

Note: This course can only be taken once.

Geology

03002.1/03002.2

Grade Level	11-12	Credit	0.5
Length	1 semester	Category	Science
Prerequisite	Completed Physical Science or Honors Physical Science		

Fee: \$10 per semester

This course provides an intermediate exploration of geology. Topics covered include plate tectonics, mineralogy, and man's use of natural resources.

Note: This course can only be taken once.

Environmental Science

03003.1/03003.2

Grade Level	11-12	Credit	1
Length	1 year	Category	Science
Prerequisite	Completed Physical Science or Honors Physical Science and Biology or Honors Biology		

Fee: \$10 per semester

The content to be studied centers on the impact humans have on the Earth. This will include the history of the Earth and conservation, current issues in environmental science, our impact (ecological imprint) on the environment, how assessing the cost of our choices on the environment. Included in the course will be readings from current journals, environmental magazines, various newspapers, and nonfiction writings of historical and contemporary authors. The students will be required to conduct a research based project on an environmental issue of their choice.

Advanced Placement Biology

03056.1AP/03056.2AP

Grade Level	11-12	Credit	1
Length	1 year	Category	Science
Prerequisite	Completed General/Honors Biology and completed General/CP Chemistry		
Weight	5.0		

Fee: \$10 per semester

Following the College Board's suggested curriculum designed to parallel college-level Biology courses. A strong foundation of biology and math are required. AP Biology topics covered in this class will include: evolution, biological systems and their homeostatic mechanisms, life processes, and system interactions.

SOCIAL SCIENCE 3.5 CREDITS

CAREER EXPLORATIONS/
FOUNDATIONS OF SOCIAL SCIENCE

THE WORLD

THE U.S.

ECONOMICS/CIVICS

SOCIAL SCIENCE ELECTIVES AND COLLEGE COURSES
PSYCHOLOGY, SOCIOLOGY
AP U.S. HISTORY

SOCIAL STUDIES

Foundations of Social Sciences

04001.1/04001.2

Grade Level	9	Credit	0.5
Length	1 semester	Category	Social Science
Prerequisite	None		

This course is designed to acquaint students with skills and knowledge vital to their success in the Social Sciences. Students will learn geographic skills such as properly reading maps and creating thematic maps using specific data. Cultures of the world and how those cultures relate to the land and the surrounding peoples will be a major focus. Students will learn the research process and how to be successful in the 21st Century conducting research from a plethora of sources. Identifying an author's bias, writing a thesis, and constructing an argument supporting that thesis are skills necessary for Social Sciences classes and will be taught. Students will be introduced to historical figures and learn why those figures made and impact on the world we live in. Finally, students will begin to learn about the economic world we live in and be taught necessary skills to be successful in their personal finances.

Note: This course can only be taken once.

The World

04051.1/04051.2

Grade Level	10	Credit	1
Length	1 year	Category	Social Science
Prerequisite	Foundations of Social Science		

Students will study the history of the world starting from prehistoric times to industrialization. The use of primary and secondary resources will be prevalent throughout the course. Students will also examine the five major religions in order to better understand diverse cultures found all over the world. Geography will also be emphasized during the course. Students will practice map skills as well as gaining a global perspective with regard to numerous civilizations around the globe.

The U.S.

04103.1/04103.2

Grade Level	11	Credit	1
Length	1 year	Category	Social Science
Prerequisite	The World		

Students will explore the history of the United States from the American Revolution to the present and discern what characteristics, ideas, and events have shaped American identity. Classes will view history through the eyes of economics and citizenship. Students will learn about the American economic system, its foundations, its changes, and its current issues operating in the global market. As part of the economic view, students will learn strategies to help them succeed in today's economy. Students will also learn what it means to be a citizen of this country, including their rights and their duties to the country. Lastly, students will begin to formulate their own beliefs about major topics in government.

Advanced Placement U.S. History

04104.1AP/04104.2AP

Grade Level	11-12	Credit	1
Length	1 year	Category	Social Science
Prerequisite	None		
Weight	5.0		

Following the College Board's suggested curriculum designed to parallel college-level U.S. History courses. AP U.S. History offers an issue-oriented approach in the study of the people of the United States and their history. Major themes and traditions that make America exceptional will be explored in great detail. The course is designed to acquaint students with core characteristics and values found throughout the history of the United States and its people. An analysis of those events and significant individuals will be done on a continuous basis.

Economics

04201.1/04201.2

Grade Level	11-12	Credit	0.5
Length	1 semester	Category	Economics
Prerequisite	The U.S.		

The purpose of this course is to provide students with a basic understanding of the American economic system and an introduction to the basic principles of economics. Students will understand economic decision making, free enterprise, market economy, production, supply and demand, unemployment, inflation, and monetary policy, along with international trade, opportunity cost, economic institutions, public policy, and entrepreneurs.

Note: This course can only be taken once.

SOCIAL STUDIES

Civics

04161.1/04161.2

Grade Level	11-12	Credit	0.5
Length	1 semester	Category	Civics
Prerequisite	The U.S.		

This course examines the foundations of citizenship including American society, its values and the rights, duties, and responsibilities of citizens. It explores America's political heritage; the Constitution, the Bill of Rights, the three branches of federal government, state government, and local government. The American legal systems, including juvenile, criminal, and civil justice are topics of study. Political parties, voting, elections, and foreign policy are further topics of discussion and learning in this course. The course is designed to encourage students to begin to formulate their own beliefs on these topics so that they may be informed and prepared voters.

Note: This course can only be taken once.

Psychology

04254.1/04254.2

Grade Level	11-12	Credit	0.5
Length	1 semester	Category	Elective
Prerequisite	None		

The study of psychology focuses on human interactions and relationships. Students will examine such topics as:

- The life cycle from birth to death
- What is "sanity" or "insanity"?
- What can be considered "normal" or "abnormal"?

The student will leave the course with an increased awareness of what motivates individuals.

Sociology

04258.1/04258.2

Grade Level	11-12	Credit	0.5
Length	1 semester	Category	Elective
Prerequisite	None		

Sociology is the science that studies human and social behavior. In this course, the student will examine the areas of society and culture, social structure, social institutions, socializations, and social problems. The student will recognize and define terminology and concepts in the field of sociology.

Note: This course can be taken only once.

Career Exploration

22151.1/22151.2

Grade Level	9	Credit	0.5
Length	1 semester	Category	Career Ex
Prerequisite	None		

This course teaches students how to engage in comprehensive career and life planning processes. The course focuses primarily on the exploration phase of this process. Students will examine their interests, values, personality traits, skills and experiences. They will investigate budgeting, research occupations, identify and examine career pathways, occupational trends, education and training requirements, earning potential and job search strategies. Students are expected to synthesize what they have learned and develop an online 10-year plan & portfolio throughout the course.

PHYSICAL EDUCATION/HEALTH

Health I

08051.1/08051.2

Grade Level	9-10	Credit	0.5
Length	1 semester	Category	Health
Prerequisite	None		

Fee: \$10

Topics covered within Health I include personal health, healthy choices, basic fitness concepts, basic anatomy and physiology, drug/alcohol abuse prevention, teen violence, relationship issues, and consumer health issues. The course may also include brief studies of teen suicide prevention, sexual harassment/sexual assault prevention, and basic First Aid/CPR.

Note: This course can only be taken once.

Physical Education I

08001.1/08001.2

Grade Level	9-10	Credit	0.5
Length	1 semester	Category	Physical Ed
Prerequisite	None		

Fee: \$10

Physical Education provides students with the knowledge, experience, and an opportunity to develop skills in the following activities: flag football, volleyball, basketball, soccer, lacrosse, hockey, and team building. The class will also focus on various fitness activities that enhance the areas of muscular strength, muscular endurance, flexibility, and cardiorespiratory endurance. Students will be assessed on skills learned through each of the above activities and knowledge learned throughout the semester, as well as completeness and improvement of their current fitness levels.

Note: This course can only be taken once.

Fitness for Life

08004.1/08004.2

Grade Level	10-12	Credit	0.5
Length	1 semester	Category	Physical Ed
Prerequisite	Complete PE I		

Fee: \$10

Lifetime Activities will provide the non-athlete with the opportunity to learn about physical activities that can be carried on throughout their lives. Activities that the student will participate in will help them understand how the benefits of low impact activities, high cardio activities, and strength training activities will keep them in a healthy lifestyle throughout their lives. The course will include activities such as fitness walking, basic strength training, jogging/running and orienteering/hiking.

Note: THIS COURSE IS DESIGNED FOR NONATHLETES!! A student cannot take this course if he/she has participated in a school-sponsored sport prior to taking this course.

Note: This course may be taken twice.

Only one P.E. course may be taken per semester unless approved by an administrator

Foundations of Strength Training

08009.1A/08009.2A

Grade Level	10-12	Credit	0.5
Length	1 semester	Category	Physical Ed
Prerequisite	Complete P.E. I or Lifetime Activities		

Fee: \$10

Strength and Conditioning provides students with the opportunity to develop knowledge and skills in free weight exercises while emphasizing safety and proper body positioning. Students will develop and improve on skills in agility, speed, cardiorespiratory endurance, balance, and flexibility while gaining knowledge in human anatomy and how a properly designed strength and conditioning program affects their current strength and fitness levels.

Only one P.E. course may be taken per semester unless approved by an administrator.

PHYSICAL EDUCATION/HEALTH

Advanced Strength Training

08009.1B/08009.2B

Grade Level	10-12	Credit	0.5
Length	1 semester	Category	Physical Ed
Prerequisite	Complete Foundations of Strength Training		

Fee: \$10

This course will offer advanced skills in strength and conditioning practices. The class is designed to increase sports specific skills, strength, speed, endurance, flexibility, agility, power, and condition the body to perform explosive movements. Injury prevention is a by-product to this course.

Aerobics

08005.1/08005.2

Grade Level	10-12	Credit	0.5
Length	1 semester	Category	Physical Ed
Prerequisite	Complete P.E. I		

Fee: \$10

This course is designed to increase the student's physical fitness level. Activities may include high & low impact aerobics, step aerobics, walking, abdominal workouts, and muscle conditioning. Students will also be introduced to a variety of exercise forms to improve their level and understanding of fitness.

Note: This course may be taken only once.

***Only one P.E. course may be taken per semester unless approved by an administrator.**

Dance

05001.1A/05001.2A

Grade Level	10-12	Credit	0.5
Length	1 semester	Category	Physical Ed
Prerequisite	Complete P.E. I		

Fee: \$10

Dance provides students with experience in several dance forms (i.e. modern, jazz, and ballet). Dance is an introductory class where students will learn and use components in various styles and techniques as well as demonstrate competency in the history of dance, influential dancers, and choreographers.

Note: This course may be taken only once.

***Only one P.E. course may be taken per semester unless approved by an administrator. ***

Advanced Dance

05001.1B/05001.2B

Grade Level	10-12	Credit	0.5
Length	1 semester	Category	Physical Ed
Prerequisite	Complete P.E. I		

Fee: \$10

Students in advanced dance will build upon the skills and techniques learned in Dance. Students will learn more complicated steps and routines. This class is designed for the student who is serious about dance as a physical fitness activity as well as an art form. Students will also have an opportunity to explore a variety of dance styles, their history, and differences in techniques throughout the semester. Dance forms such as modern, hip hop, musical theatre, and lyrical will be some of the different styles addressed.

Note: This class may only be taken for one semester.

First Responder

08055.1/08055.2

Grade Level	10-12	Credit	0.5
Length	1 Semester	Category	Elective
Prerequisite	P.E. I and Health		

The first responder course is designed to provide first responders with the necessary knowledge and skills to manage patient care at the scene of a trauma or medical emergency until ambulance personnel arrive.

Fee: \$30 certification fee (optional)

PHYSICAL EDUCATION/HEALTH

Athletic Training I

08099.1A/08099.2A

Grade Level	10-12	Credit	0.5
Length	1 semester	Category	Elective
Prerequisite	P.E. I and Health		

Fee: \$10

The Athletic Training I course is designed to give students basic knowledge regarding athletic training. Students who are interested in pursuing a career in Sports Medicine will benefit from the following concepts: the roles of sport personnel, administration of a health care program, legal issues regarding athletic training, prevention of injuries through training and nutrition, the use and application of protective devices and equipment, handling of emergency situations, and the understanding of the basics of injury rehabilitation.

ELECTIVE- FOREIGN LANGUAGE

Spanish I

06101.1/06101.2

Grade Level	9-12	Credit	1
Length	1 year	Category	Elective
Prerequisite	None		

Designed to introduce students to Spanish language and culture. The Spanish I course emphasizes basic grammar and syntax, simple vocabulary, and the spoken accent so that students can read, write, speak, and understand the language at a basic level within predictable areas of need, using customary courtesies and conventions. Spanish culture is introduced through the customs and history of Spanish.

Spanish II

06102.1/06102.2

Grade Level	10-12	Credit	1
Length	1 year	Category	Elective
Prerequisite	Spanish I		

Spanish II courses build upon skills developed in Spanish I, extending students' ability to understand and express themselves in Spanish and increasing their vocabulary. Typically, students learn how to engage in discourse for informative or social purposes, write expressions or passages that show understanding of sentence construction and the rules of grammar, and comprehend the language when spoken slowly. Students usually explore the customs and history of Spanish-speaking people to deepen their understanding of the culture.

Spanish III

06103.1/06103.2

Grade Level	10-12	Credit	1
Length	1 year	Category	Elective
Prerequisite	Spanish II		

Spanish III courses focus on having students express increasingly complex concepts both verbally and in writing while showing some spontaneity. Comprehension goals for students may include attaining more facility and faster understanding when listening to the language spoken at normal rates, being able to paraphrase or summarize written passages, and conversing easily within limited situations.

Spanish IV

06104.1/06104.2

Grade Level	11-12	Credit	1
Length	1 year	Category	Elective
Prerequisite	Spanish III or Spanish for Heritage Speakers		

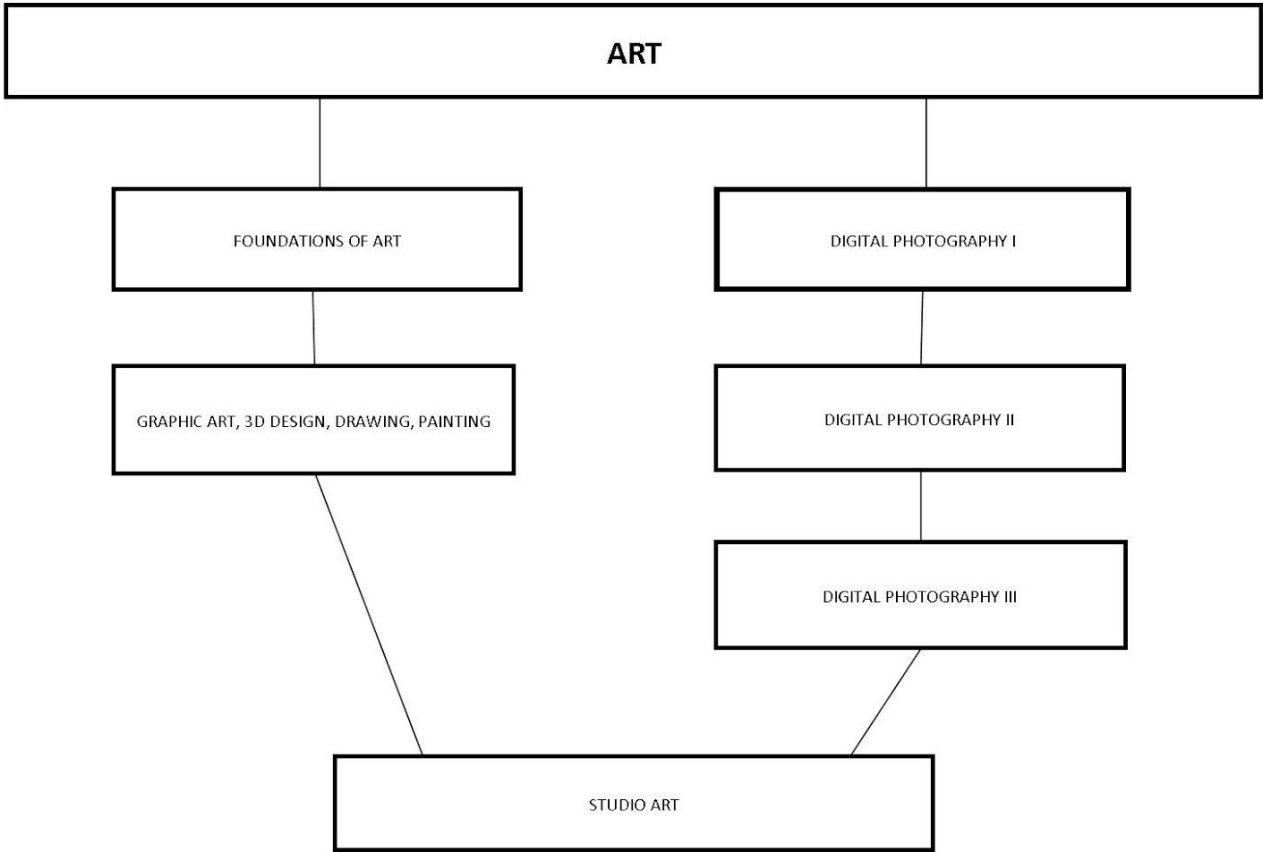
This course focuses on linguistic accuracy through discussion, debate and Spanish conversation. Students will read and analyze Spanish literature and discuss contemporary issues in the target language. The course incorporates the reading and writing component, with a comprehensive review of the first three years of grammar and final introduction of new advanced grammar. Spanish 4 is designed to prepare academically motivated students to continue their study of Spanish at the college level and beyond.

Spanish for Heritage Speakers

06106.1/06106.2

Grade Level	9-12	Credit	1
Length	1 year	Category	Elective
Prerequisite	Placement Test		

Spanish for Native Speakers is designed specifically for native/heritage speakers of Spanish who already have some oral language proficiency. This course is to enable students whose heritage language is Spanish to develop, maintain, and enhance proficiency in Spanish by providing them the opportunity to listen, read, speak and write in a variety of contexts. SHS will allow students to explore the culture of the Hispanic world including their own and it will enable students to gain a better understanding of the nature of their own language as well as other languages to be acquired.



ELECTIVE-ART

Foundations of Art

05154.1/05154.2

Grade Level	9-12	Credit	1
Length	1 year	Category	Elective
Prerequisite	None		

Fee: \$20

Foundations of Art will explore different mediums like drawing, painting, sculpture, ceramic, fibers, and other forms of art. The student will work with a wide variety of techniques, materials, and tools to create and further their skills in 2-Dimensional and 3-Dimensional art over the course of a school year (two semesters). They will learn about the elements and principles of Art & Design, movements in art throughout history, cultural influences, demonstrate the 8 Studio Habits of Mind, and current art trends and materials to start using art as a means of communication and expression.

Graphic Art

05162.1/05162.2

Grade Level	10-12	Credit	0.5
Length	1 semester	Category	Elective
Prerequisite	Foundations of Art		

Fee: \$20

This course is an exploration of the formal elements of design including composition, line, color, texture, and shape as they apply to Graphic Design. Emphasis will be placed on the manipulation of graphic form to convey meaning, employing strategies for idea generation, and the developing of unique concepts. Students will learn through the process of creating designs involving both typography and concept with the ultimate goal of visual communication. A fundamental knowledge of the history and cultural significance of Graphic Design will also be gained.

This course may be taken twice.

3D Design

05158.1/05158.2

Grade Level	10-12	Credit	0.5
Length	1 semester	Category	Elective
Prerequisite	Foundations of Art		

Fee: \$20

3-D Design will expand on the skills of sculpture, ceramic, fibers, and other 3-Dimensional artworks that were demonstrated in Foundations of Art. The student will work with a wide variety of techniques, materials, tools to create and further their skills in 3-Dimensional art. They will use their knowledge of the elements and principles of Art & Design, movements in art throughout history, cultural influences, and current art trends and materials to start using art as a means of communication and expression.

This course may be taken twice.

Drawing

05156.1/05156.2

Grade Level	10-12	Credit	0.5
Length	1 semester	Category	Elective
Prerequisite	Foundations of Art		

Fee: \$20

Drawing will expand on the skills of drawing that were demonstrated in Foundations of Art. The student will work with a wide variety of techniques and materials to create, further their drawing skills and develop their personal style. They will apply their knowledge of the elements and principles of Art & Design, movements in art throughout history, cultural influences, and current art trends and materials to start using art as a means of communication and expression.

This course may be taken twice.

Painting

05157.1/05157.2

Grade Level	10-12	Credit	0.5
Length	1 semester	Category	Elective
Prerequisite	Foundations of Art		

Fee: \$20

Painting will expand on the skills of painting that were demonstrated in Foundations of Art. The student will work with a wide variety of techniques and materials to create and further their skills in painting. They will use their knowledge of the elements and principles of Art & Design, movements in art throughout history, cultural influences, and current art trends and materials to start using art as a means of communication and expression.

ELECTIVE- ART

Studio Art

05197.1/05197.2

Grade Level	12	Credit	0.5
Length	1 semester	Category	Elective
Prerequisite	Complete Foundations of Art and three other art classes.		

Fee: \$20

This class is designed for students who have completed and have passed at least three of the following art courses: Foundations of Art, Drawing, Painting, Graphic Design, or Photo (I, II, or III). The student will complete a portfolio of exemplary work at the end of the course. The student will explore various design problems and demonstrate a mastery of several different types of medium. The student, in consultation with the instructor, will assume responsibility for planning and assessing the direction of his or her portfolio of work that reflects his/her personal style and talent. This course will also require in class participation and desired projects, and as well as out of class projects and homework. This course is the foundation for students who are considering higher education and/or careers in photography, graphic design, fashion design, fine arts, animation, and other fields related to the arts. The young artist may take this course more than a semester.

This course may be taken twice.

Digital Photography I

05167.1A/05167.2A

Grade Level	9-12	Credit	0.5
Length	1 semester	Category	Elective
Prerequisite	None		

Fee: \$20

This introductory course in Digital Photography will provide fundamental knowledge of the medium. Students will develop a basic understanding of composition, exposure controls, and photo adjustment and manipulation. The critique process will be introduced and utilized to gain a deeper understanding of the photographic process and established photographers' work. Students will gain an essential understanding of the history of the photographic medium.

Note: Students are encouraged to provide their own digital camera.

Note: This course can only be taken once.

Digital Photography II

05167.1B/05167.2B

Grade Level	9-12	Credit	0.5
Length	1 semester	Category	Elective
Prerequisite	Complete Digital Photography I		

Fee: \$20

Intermediate Digital Photography provides the opportunity to explore the concepts and techniques from the introductory class more fully. Students will build upon a fundamental knowledge of composition, exposure control and photo manipulation, applying advanced concepts to create HDR, Infrared and Collage images. The critique process will be reviewed and used to evaluate photographs produced by both students and professional photographers. Students will gain a more complete understanding of the history of the photographic medium.

Note: Students are encouraged to provide their own digital camera.

Note: This course can only be taken once.

Digital Photography III

05167.1C/05167.2C

Grade Level	10-12	Credit	0.5
Length	1 semester	Category	Elective
Prerequisite	Complete Digital Photography II		

Fee: \$20

This advanced course in Digital Photography will build upon the fundamental knowledge of the medium gained at the introductory and intermediate levels. Students will develop a deeper knowledge of exposure controls, photo adjustment and manipulation. The use of photographic images as a communication device will be explored in depth. Students will be asked to create bodies of work of Weld Central Career Pathway Course Guide 2013–14 Page 32 their own design. Photographs produced by the student and his/her peers will be evaluated, as well as the work of established photographers.

Note: Students are encouraged to provide their own digital camera.

Note: This course can only be taken once.

ELECTIVE- THEATER/MUSIC

Theater I

05051.1/05051.2

Grade Level	9-12	Credit	0.5
Length	1 semester	Category	Elective
Prerequisite	None		

This hands-on course is meant as an introduction to the art of theatre and focuses on exploration of theatre performance through basic acting, speech, and movement skills. Topics of study will include theatre terminology, body control and movement, facial and voice acting, character study, script preparation and memorization, technical theater, and theater criticism.

Theater II

05052.1/05052.2

Grade Level	9-12	Credit	0.5
Length	1 semester	Category	Elective
Prerequisite	Theater I or instructor permission		

This course is for advanced and individualized work in theater. Areas of study include acting, design, and technical theater culminating in final performance as part of the school's May drama production. Emphasis will be placed on students' designing, directing, and performing skills. This class is intended to build upon already-existing theatre skills and to provide the opportunity for students to experience the cooperation and dedication necessary to put on a formal theatrical production.

Concert Band

05102.1/05102.2

Grade Level	9-12	Credit	1
Length	1 year	Category	Elective
Prerequisite	Previous instrumental music experience		

Fee: \$20 per year

Students will develop proficiency on a woodwind or brass instrument by performing at least one concert per quarter in a large ensemble. Students will study and refine their skills as a performer by preparing a variety of music while developing skills in sight-reading, music theory, listening, and criticism. Concerts will be held during the evening and outside of the school day. Concert band members are also expected to perform with the school pep band at varsity football, volleyball, basketball games.

Jazz Band

05105.1/05105.2

Grade Level	9-12	Credit	1
Length	1 year	Category	Elective
Prerequisite	Instructor Approval		

Students will perform in a small jazz ensemble comprised of saxophones, trumpets, trombones, piano, guitar, bass, and drums/percussion. Students will learn about the history, artists, and various styles of jazz music through performance and listening exercises. Improvisation and jazz theory will be strongly emphasized. One required concert will be given per quarter in the evening and outside the school day. Various other performances will be arranged in the school and in the community. Concurrent enrollment in band is strongly recommended, but not required.

Impressions

05111.1/05111.2

Grade Level	9-12	Credit	1
Length	1 year	Category	Elective
Prerequisite	Instructor Approval		

Students taking Impressions will develop vocal techniques and the ability to sing parts in small ensemble or madrigal groups. Course goals may include the development of solo singing ability and may emphasize one or several ensemble literature styles.

ELECTIVE- THEATER/MUSIC

Bel Canto

05110.1/05110.2

Grade Level	9-12	Credit	1
Length	1 year	Category	Elective
Prerequisite	None		

This course is a non audition, mixed choir open to men and women performing music in 3–6 parts. Students will enhance their skills in ensemble singing, vocal technique, sight-reading, and music literacy by performing a wide variety of music in English and other languages. Music theory and listening skills will also be emphasized. This choir will perform one required concert per quarter which will be held in the evening and outside the school day.

Music Theory

05113.1/05113.2

Grade Level	10-12	Credit	1
Length	1 year	Category	Elective
Prerequisite	2 years enrollment in performing ensembles and instructor permission		

Fee: \$20 per year

Music Theory is a course that presents students with an opportunity to broaden their knowledge of the fundamental elements of music. Included in the study are rhythm, melodic line, harmonic structure, ear training, sight-singing, and composition. Some musical training is preferred but not required This course can be taken as preparation for the AP Music Theory.

Guitar I

05108.1A/05108.1A

Grade Level	9-12	Credit	0.5
Length	I Semester	Category	Elective
Prerequisite	None		

Students will learn and build upon the fundamentals of playing stringed instruments from a variety of different styles and genres, emphasizing correct posture, strumming, picking, and chords in this semester class. They will learn basic notation and tablature, as well as the foundations of music, including melody, harmony, rhythm, time signatures, key signatures, dynamics, and other music terminology. Ensemble playing skills will also be emphasized. Instruction will be highly individualized and hands-on.

Note: This class can only be taken twice.

Guitar II

05108.2B/05108.2B

Grade Level	9-12	Credit	0.5
Length	I Semester	Category	Elective
Prerequisite	Guitar I or by Instructor approval through a pre-assessment.		

Guitar II features progressively more demanding literature that encourages continued technical development and performance skills. Full bar chords and improvisation will be taught in this class. Musicianship and performance skills are stressed within a guitar ensemble atmosphere. Public performance and practice at home outside of school hours is an integral part of the course and is required.

AGRICULTURAL SCIENCE

AGRICULTURAL SCIENCE I

ANIMAL SCIENCE, VET SCIENCE, PLANT SCIENCE,
HORTICULTURAL SCIENCE, AGRICULTURAL
MECHANICS

AGRICULTURAL MECHANICS II

AGRICULTURAL FABRICATION
AGRICULTURAL SCIENCE WORK STUDY

ELECTIVE- AGRICULTURAL SCIENCE

Agricultural Science I

18001.1A/18001.2A

Grade Level	9-11	Credit	1
Length	1 year	Category	Elective
Prerequisite	None		

Fee: \$30

Students who successfully complete Agricultural Science I will develop general skills in carpentry, agricultural safety, arc welding, oxyacetylene welding, crop science, plant science, animal science, and tractor maintenance and operation. Each student enrolled in Agricultural Science I will be required to establish plans for a Supervised Agricultural Experience Program (SAEP) by the end of the second quarter. The SAEP may consist of a crop, livestock, or placement project carried out at home or a part-time agriculturally related job.

Note: Active membership in the Weld Central FFA Chapter is required.

Animal Science

18001.1B/18001.2B

Grade Level	10-12	Credit	1
Length	1 year	Category	Elective
Prerequisite	Complete Ag I		

Fee: \$20

Students will develop knowledge and skills in a wide range of scientific principles, including genetics, anatomy, physiology, nutrition, disease, pests, and management practices. The scientific processes of observation, measurement, hypothesizing, data gathering, interpretation, analysis, and application are included. Career opportunities and educational preparation are examined. Learning activities are varied, with classroom, laboratory, and field experiences emphasized. Students will be working independently and in groups to accomplish the labs and classroom activities.

Note: Active membership in Weld Central FFA Chapter and an ongoing SAE program is required.

Vet Science

18105.1/18105.2

Grade Level	10-12	Credit	1
Length	1 year	Category	Elective
Prerequisite	Complete Ag I		

Fee: \$20

This course provides the opportunity for students to explore different avenues of the veterinary profession. Students will be exposed to veterinary science and principles which include anatomy, physiology, chemistry, animal health and disease, dentistry and laboratory procedures. Students will provide hands-on care as they develop skills in the areas of surgical assisting, bandaging, wound care, oral care, and general nursing care.

Note: Active membership in Weld Central FFA Chapter and an ongoing SAE program is required.

Plant Science

18051.1/18051.2

Grade Level	10-12	Credit	1
Length	1 year	Category	Elective
Prerequisite	Complete Ag I		

Fee: \$20

Students who successfully complete Plant Sciences will get a practical knowledge of the biology of plants. Areas covered will include soil sciences, grain crops production, reproduction, growth, genetics, and the crop industry. Students will obtain hands on experience working with crops and soils in lab settings.

Note: Active membership in Weld Central FFA Chapter and an ongoing SAE program is required.

ELECTIVE- AGRICULTURAL SCIENCE

Horticultural Science

18052.1/18052.2

Grade Level	10-12	Credit	1
Length	1 year	Category	Elective
Prerequisite	Complete Ag I		

Fee: \$20

Students who successfully complete the Horticultural Sciences will get practical knowledge of the biology of plants. Areas covered will include plant and soil science, plant cells, physiology, growth, reproduction, genetics, environmental factors, soils, soil management, and horticulture science technology. Students will also obtain hands on experience working in the school greenhouse and will manage plants in a greenhouse setting.

Note: Active membership in Weld Central FFA Chapter and an ongoing SAE program is required.

Agricultural Mechanics

18401.1/18402.2

Grade Level	10-12	Credit	1
Length	1 year	Category	Elective
Prerequisite	Complete Ag I		

Fee: \$30

Students will learn in the classroom and laboratory to develop skills in areas of hot and cold metal work, AutoCAD design, bill of materials preparation, small gas engines, plumbing, soldering, and intermediate welding and cutting skills. Students will also learn and practice knowledge, attitude, skills, and habits required for performing tasks autonomously, including the selection and use of appropriate techniques and equipment with minimum supervision. Safety and proper use of tools and equipment will be emphasized.

Note: Active membership in Weld Central FFA Chapter and an ongoing SAE program is required.

Agricultural Mechanics II

18404.1/18404.2

Grade Level	11-12	Credit	1
Length	1 year	Category	Elective
Prerequisite	Complete Ag Mechanics I		

Fee: \$30

Students will learn in the classroom and laboratory to develop skills related to advanced welding and fabrication, electrical wiring and electrical motors, surveying and construction, and hydraulics. Problem solving and the ability to work independently or in small groups is emphasized. Students will also learn and practice knowledge, attitudes, skills, and habits required in the agriculture power and structure workforce. Safety and proper use of the tools and equipment is required.

Note: Active membership in Weld Central FFA Chapter and an ongoing SAE program is required.

Agricultural Fabrication

18449.1/18449.2

Grade Level	12	Credit	1
Length	1 year	Category	Elective
Prerequisite	Complete Ag Mechanics II		

Fee: \$30

Agricultural Fabrication is a capstone course for senior level students with extensive knowledge and skill in welding, fabrication, construction and project design. Students will be required to design, fabricate, finish and market projects of their own design with the input of the instructor. Students will also develop skills related to obtaining gainful employment in an agricultural mechanics related career. Students without three prior years of agricultural coursework can enter the class only with the instructor's permission.

Note: Active membership in Weld Central FFA Chapter and an ongoing SAE program is required.

ELECTIVE- AGRICULTURAL SCIENCE

Agricultural Science Work Study

18248.1/18248.2

Grade Level	12	Credit	1
Length	1 year	Category	Elective
Prerequisite	Concurrent with any Ag		

Fee: \$30

The student will use skills learned in the agricultural area to find and obtain a job. The student will develop good work habits along with enhancing skills already acquired. All work study students must sign out in the attendance office and leave the building during their designated work study periods. Students must work a minimum of **10 hours weekly**. If a student has work study, they **CANNOT** sign up for Student Assistantship.

Note: If a student fails a class first semester, they may not be enrolled in Work Study second semester.

ELECTIVE- BUSINESS

Intro to Business

12051.1/12051.2

Grade Level	9-12	Credit	0.5
Length	1 Semester	Category	Elective
Prerequisite	None		

This course develops student understanding and skills in the areas of communication skills and emotional intelligence using business concepts. Through this course, students acquire an appreciation for the need for self-awareness, teamwork, and leadership skills while being acquainted with business concepts such as general business, entrepreneurship, communication, finances, and marketing. In developing these skills and habits, students are likely to experience greater success in subsequent academic and career courses, perform better in their chosen student organizations/clubs, and increase their postsecondary workforce readiness skills for their professional lives.

Personal Finance

12103.1/12103.2

Grade Level	10-12	Credit	0.5
Length	1 Semester	Category	Elective
Prerequisite	None		

The goal of the Personal Finance course is to help students to become fiscally responsible, conscientious members of society. This course develops student understanding and skills in personal finance areas such as money management, budgeting, financial goal attainment, the wise use of credit, insurance, investments, and consumer rights and responsibilities. Please see attached document for the specific Colorado Academic Standards that are met in this class.

Microsoft Office and Google Applications

10004.1/10004.2

Grade Level	9-12	Credit	0.5
Length	1 semester	Category	Elective
Prerequisite	None		

Students will develop basic skills using word processing, spreadsheets, desktop publishing, presentation, and database software in integrated applications using Microsoft Office. The student will learn to share data between different software applications and use the information to create documents that would be used in many office settings.

Note: This course can only be taken once.

Entrepreneurship I, II, III

12053.1A or B/12053.2A or B

Grade Level	10-12	Credit	1
Length	1 year	Category	Elective
Prerequisite	Intro to Business		

Fee: \$20

Students will manage and run a school business. They will gain skills in small business management including sales, marketing, design advertising, product design and creation, inventory, and finances. This is a hands on course in which students will be fully operating a business. Students must be willing to work in teams and are expected to demonstrate leadership, responsibility, and initiative.

Attendance to some extra-curricular activities for the sales purposes and professional learning experiences will be expected. Students will be required to meet deadlines, sales goals, and produce high quality products.

Note: Membership in the Weld Central FBLA Chapter is required.

Accounting I

12104.1A/12104.2B

Grade Level	10-12	Credit	1
Length	1 year	Category	Elective
Prerequisite	None		

The purpose of the course is to familiarize students with accounting concepts, principles, and practices as they relate to business and personal financial situations. In addition to journalizing, preparing financial statements, and analyzing business information, students will also learn to use checking accounts, payroll processing, and computerized accounting systems. Opportunities for accounting careers will also be explored.

ELECTIVE- BUSINESS

Business Math

02154.1/02154.2

Grade Level	11-12	Credit	1
Length	1 year	Category	Math
Prerequisite	Completed Algebra 1 with a D or better		

Business math reinforces general math skills, emphasizes speed and accuracy in computations, and uses these skills in a variety of business applications. General math topics (e.g. arithmetic, measurement, statistics, ratio and proportions, exponents, formulas, and simple equations) are reinforced by applying these skills to business problems and situations. Applications include wages, hourly rates, payroll deductions, sales, receipts, accounts payable and receivable, financial reports, discounts, and interest.

Digital Business Technology I, II

11151.1A or B/11151.2A or B

Grade Level	10-12	Credit	1
Length	1 year	Category	Elective
Prerequisite	Intro to Business		

This course merges the technology of digital print, video, and web design into a single course designed to challenge students to explore the integration of technology within a business environment. Students will be encouraged to learn how to incorporate digital media into different projects ranging from creation of business logos and web pages to challenging commercial video and animated programs using Adobe software. Students will create a portfolio of their work for future career reference.

Business Office Education

12001.1/12001.2

Grade Level	11-12	Credit	1
Length	1 year	Category	Elective
Prerequisite	Any CTE Class		

Upon completion of Business Office Education the student will possess the skills necessary to seek employment in the business world. The student will study career choices in a realistic manner through the use of practical materials related to the student's area of interest. The student will obtain skills in business filing, getting a job, business English, word processing, office machines, record keeping, and office procedures.

Business Work Study

12998.1/12998.2

Grade Level	12	Credit	1 year
Length	1 year	Category	Elective
Prerequisite	Any Business Class		

The student will use skills learned in Business Office Education to find and obtain a job. The student will develop good work habits along with enhancing skills already acquired. All work study students must sign out in the attendance office and leave the building during their designated work study periods. Students must work a minimum of 10 hours weekly. If a student has Work Study, they **CANNOT** sign up for Student Assistantship.

Note: If a student fails a class first semester, they may not be enrolled in Work Study second semester.

ELECTIVE- CONSUMER & FAMILY STUDIES

Culinary Nutrition

16054.1/16054.2

Grade Level	9-12	Credit	0.5
Length	1 semester	Category	Elective
Prerequisite	None		

Fee: \$20

This course was designed to assist students in acquiring basic nutrition skills, safety and sanitation awareness, meal planning and acquisition of food selection, purchasing, and preparation skills. Students will prepare basic quick breads, nutritious breakfasts, various egg recipes, dairy and cheese recipes, poultry, and learn how to select and prepare fruits and vegetables. The culminating unit is beef; students will learn how to make wise consumer choices in beef selection and plan a ground beef lab and non-tender cut of beef meal.

Note: This course can only be taken once.

Catering

16053.1/16053.2

Grade Level	10-12	Credit	1
Length	1 year	Category	Elective
Prerequisite	Complete Culinary Nutrition, Instructor approval and parent permission		

Fee: \$30

This course was designed for students with career interest in the food industry as well as in owning their own catering business. The course will expose students to cooking for large groups through various catering experiences, cost-analysis of food and meals to assess profits gained or lost, in-depth training in safety and sanitation, research in various food-related occupations, and entrepreneurship. In-depth food preparations skills will be acquired in meat cookery, yeast breads, baking, sauces, sandwiches, breakfasts, and high-quality nutritious meals. Because of the requirements listed above, prior approval in writing from the Family and Consumer Sciences teacher permission will be required before being admitted into the class.

Child Development/Parenting

19052.1/19052.2

Grade Level	9-12	Credit	0.5
Length	1 semester	Category	Elective
Prerequisite	None		

The purpose of this course is to acquire an academic knowledge and understanding of child development necessary for strengthening the well-being of children and families. Topics covered are readiness for parenting including roles and responsibilities, the impact of core values and human development theories on child development, teen pregnancy, prenatal development and birth, emotional, physical, intellectual and social development of children, discipline, time management, financial planning, and child care assessments.

Note: This course can only be taken once.

Fashion Design & Clothing Construction

19201.1/19201.2

Grade Level	9-12	Credit	1
Length	1 year	Category	Elective
Prerequisite	None		

Fee: \$20

This year-long course was designed to expose students to various aspects of the fashion design and merchandising industry. Students will integrate knowledge, skills, and practices to evaluate career paths in the fashion and textile industry. Emphasis is placed on an introduction to fashion; fibers; fabrics and textiles; fashion apparel and textile design skills; clothing construction techniques and alteration skills; and fashion merchandising.

ELECTIVE- CONSUMER & FAMILY STUDIES

Independent Living

22207.1/22207.2

Grade Level	11-12	Credit	0.5
Length	1 semester	Category	Elective
Prerequisite	None		

This course is designed to prepare students with skills to live independently on their own. Skills are developed to analyze career opportunities for employment, develop a career portfolio, have the opportunity to participate in a one-day career shadowing experience and develop skills for life in financial planning, investing, and savings with training videos from financial planner Dave Ramsey. They also will develop consumer skills in selecting housing, creating a monthly cash flow plan (budget) through a checking account simulation experience. Consumer skills in making wise food choices, meal planning, and clothing maintenance will also be integrated.

Note: This course can only be taken twice.

ELECTIVE- DIGITAL COMMUNICATION & MULTIMEDIA TECHNOLOGY

Adobe Photoshop I: (Multimedia Graphic Design)

11155.1A/11155.2A

Grade Level	9-12	Credit	0.5
Length	1 semester	Category	Elective
Prerequisite	None		

This course introduces the student to the basic operations of the Adobe Photoshop program such as acquiring images from a variety of sources, making color corrections, applying filters and effects and sharing images. This course concentrates on the high-end capabilities of raster photo-editing software 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.

Note: This course can only be taken once.

Adobe Photoshop II: (Multimedia Graphic Design)

11155.1B/11155.2B

Grade Level	9-12	Credit	0.5
Length	1 semester	Category	Elective
Prerequisite	Complete Adobe Photoshop I		

This course develops and reinforces image composition techniques learned in Adobe Photoshop I. Fundamentals are continuously reinforced as new design techniques are introduced.

Note: This course can only be taken once.

Yearbook Production I, II, III

11104.1A, B, C/11104.2A, B, C

Grade Level	10-12	Credit	1
Length	1 year	Category	Elective
Prerequisite	Parent and Teacher approval		

Students will produce a yearbook while developing journalistic standards in copywriting, picture cropping, photography, layout design, writing headlines, writing copy, and writing captions. Participants must be willing and able to work well in small groups. Attendance at extracurricular activities for yearbook inclusion is necessary. Students will be required to meet deadlines, sell business advertisements, participate in fundraisers, show leadership, produce high quality work, follow correct processes in completing work, and demonstrate dependability, responsibility, and maturity.

Note: Because of the requirements listed above, students wanting to be in this class need to have parent permission and teacher approval before being admitted into this class.

Computer Programming

10152.1/10152.2

Grade Level	10-12	Credit	1
Length	1 year	Category	Elective
Prerequisite	Algebra I		

This course is designed to provide students with the knowledge and skills necessary to construct computer programs in the BASIC language. Computer coding and structure will be an important part of the course. Students will learn to structure, create, document, and debug computer programs. Students will be expected to create projects with an emphasis on design style, clarity, and efficiency. Students will apply their thinking skills and knowledge to many real world tasks such as modeling, data management, graphics, text-processing, and even game creations. These skills will prepare students for more modern computer programming languages such as C++ and Java. Literacy and Math standards will be an important emphasis and will be taught throughout the course.

ELECTIVE- ENGINEERING TECHNOLOGY

Fundamentals of Drafting and Technical Drawing

21102.1/21102.2

Grade Level	9-12	Credit	1
Length	1 year	Category	Elective
Prerequisite	None		

Fee: \$10 per semester

In this course the student will first learn the basics of drafting and understand its major segments such as orthographic projection, section views, dimensioning techniques, auxiliary views, developments, intersections, and pictorial drawing. Students will complete at least one hands-on design, draft, and build-it project using their knowledge of drafting. They will also be introduced to and begin to use the AutoCAD program on the computer. Students are taught the theory and practice of drafting and are introduced to a wide variety of industrial applications. Students will learn the symbols and standards that are currently being used in the engineering technology industry. This course provides a working knowledge of drafting standards, techniques and procedures necessary to progress into Computer- aided Drafting I.

Computer Aided Drafting I

21107.1A

Grade Level	10-12	Credit	0.5
Length	1 semester	Category	Elective
Prerequisite	Technical Drawing		

This course introduces computer-aided drafting and examines the hardware that makes up a CAD workstation. It also covers the operation system (Windows) that enables the equipment to function as a unit. CAD basics covered include: drawing setup, drawing lines, circles, arc, general geometric construction, shapes and text. Students will use editing techniques, plotting and basic drafting development.

Note: This course can only be taken once.

Computer Aided Drafting II

21107.2B

Grade Level	10-12	Credit	0.5
Length	1 semester	Category	Elective
Prerequisite	CAD I		

Designed to build on the skills acquired in CAD I, this course introduces the student to basic and advanced dimensioning practices. Topics to be covered include: notes and specifications, text editing, hatching, sketching, line types, plotting and printing, polylines, multilines, splines, layers, multiple view ports, and calculation strategies.

Note: This course can only be taken once.

Computer Aided Drafting III

21107.2C

Grade Level	11-12	Credit	0.5
Length	1 semester	Category	Elective
Prerequisite	CAD II		

This course builds upon skills acquired in CAD I and II. Groups, blocks, symbol libraries, attributes, and bills of materials will be developed to streamline CAD drawing capabilities. This course goes on to explore the three-dimensional viewing and construction capabilities of AutoCAD. Topics covered include a review of point coordinate entry, X, Y, and Z filters, Isometric drawing and the User Coordinate System (UCS). Spherically and cylindrically coordinated entry, 3D viewing options, and 3D geometry construction are introduced.

Note: This course can only be taken once

ELECTIVE- ENGINEERING TECHNOLOGY

Computer Aided Drafting IV

21107.2D

Grade Level	11-12	Credit	0.5
Length	1 semester	Category	Elective
Prerequisite	CAD III		

This course continues with the 3D modeling techniques introduced in CAD III. Topics include 3D revolutions, 3D primitives, surface modeling, advanced surfaces, shading and rendering, and solid regions, solid primitives, basic solid modeling, Boolean Operations, documenting solid models, and the physical benefits of solid modeling. The student will have the ability to understand the techniques of customizing the AutoCAD environment, the AutoCAD menu system, and the AutoCAD drawing environment.

Advanced Computer Aided Drafting 3-D Architectural

CAD203.1/CAD203.2

Grade Level	12	Credit	0.5
Length	1 semester	Category	Elective
Prerequisite	CAD IV		

This course Provides students with the software application training in the latest version of SoftPlan necessary to produce 3D Architectural models utilizing 2D drawings.

Note: This course can only be taken once.

Advanced Computer Aided Drafting 3-D Mechanical

CAD204.1/CAD204.2

Grade Level	12	Credit	0.5
Length	1 semester	Category	Elective
Prerequisite	CAD IV		

This course introduces basic non-parametric 3D concepts to build confidence in 3D thinking and moves onto three-dimensional parameters. The student learns to construct, modify, and manage complex parts in 3D space as well as how to produce 2D drawings from 3D models.

Note: This course can only be taken once.

ELECTIVE-INDUSTRIAL ARTS

Woodworking I

17006.1A/17006.2A

Grade Level	9-12	Credit	1
Length	1 year	Category	Elective
Prerequisite	None		

Fee: \$45 + cost of wood project per year

Students will be introduced to the art of Woodworking which will include terminology, safety practices, correct tool and machine use, procedure introductions, and general information. The first 6 weeks of the course are primarily academic and include instruction in the safety practices, tool identification, measurement and math applications in Woodworking. Students will construct 5 projects which will give them an introductory level experience with all of the machinery and tools in our shop.

Woodworking II

17006.1B/17006.2B

Grade Level	10-12	Credit	1
Length	1 year	Category	Elective
Prerequisite	Complete Woodworking I with a D or better		

Fee: \$30 + the cost of wood per year

Woodworking II students will expand on the skills and knowledge developed at the Woodworking I level by constructing four mandatory intermediate level projects. Students will have the opportunity to learn intermediate to advanced joinery techniques. As students gain more skill with the tools and machinery in the woods lab, they will learn to begin making complex machine setups and perform more complex procedures.

Advanced Woodworking III

17006.1C/17006.2C

Grade Level	11-12	Credit	1
Length	1 year	Category	Elective
Prerequisite	Complete Woodworking II with a D or better		

Fee: \$30 + the cost of wood per year

Advanced Woodworking is intended to give the student the opportunity to learn fundamentals of Cabinetmaking and Furniture Construction. Students will be expected to build at least one furniture- or cabinet-sized project, and should be prepared to spend between \$50-\$350, depending on the project(s) and type(s) of wood selected. In the process of constructing their projects, students will experience the most complex procedures and types of joinery used in woodworking, requiring critical thinking and problem solving abilities.

Furniture and Cabinet Construction

17007.1/17007.2

Grade Level	12	Credit	1
Length	1 year	Category	Elective
Prerequisite	Complete Advanced Woodworking III with a D or better		

Fee: \$30 + the cost of wood per year

Students will further develop their skills in the woodworking lab to include intermediate to advanced level woodworking techniques and procedures more commonly associated with cabinetmaking and furniture building. Students will be expected to have a high level of familiarity with the woods lab and an advanced knowledge of machine setup and procedural knowledge. Students should expect to spend between \$75.00 and \$350.00, depending on project selection and wood type(s) used. There are no mandatory projects selected by the instructor at this level. Students are to choose a project or multiple projects suitable for the class level they wish to complete over the course of the year.

SPECIAL EDUCATION

High School Study Skills

22003.1/22003.2

Grade Level	9-12	Credit	1
Length	1 year	Category	Elective
Prerequisite	Advisor Placement		

The content of this class is designed to provide each student with skills and strategies designed to facilitate academic success and strengthen those identified skills. Course topics include but are not limited to organizational effectiveness, time management, note taking, test preparation, research skills, effective listening, and goal setting. Students will also work independently on course assignments, while receiving support and instruction in targeted skills. Standards will be based on each student's IEP.

High School Affective Education

22253.1/22253.2

Grade Level	9-12	Credit	1
Length	1 year	Category	Elective
Prerequisite	Advisor Placement		

The content of this class is designed to provide each student with skills and strategies designed to facilitate academic success and strengthen those identified skills. Course topics include but are not limited to organizational effectiveness, time management, note taking, test preparation, research skills, effective listening, and goal setting. Students will also work independently on course assignments, while receiving support and instruction in targeted skills. Standards will be based on each student's IEP.

High School Transition

22209.1/22209.2

Grade Level	9-12	Credit	1
Length	1 year	Category	Elective
Prerequisite	Advisor Placement		

The content of this course is to provide educational, career and life skill instruction for students with identified needs. The course topics include but are not limited to money management, consumer awareness, housing and apartment living, food management, personal appearance and hygiene, clothing purchases and care, educational planning, health maintenance, safety and legal issues associated with career and postsecondary education. Standards will be based according to each student's IEP.

ASSISTANTSHIPS

Student Assistantship

22051.1/22051.2

Grade Level	11-12	Credit	0.5
Length	1 semester	Category	Elective
Prerequisite	GPA of 2.0 or higher		

Student Assistantship is a privilege. Through a Student Assistantship the student will experience real life applications they may encounter in the workplace which include social and cross cultural skills, flexibility, adaptability, media literacy, communication skills, and responsibility. The student works under the supervision of a teacher, librarian, or office staff member and is evaluated on a pass/fail basis. If a student has Work Release, they may **NOT** participate in this program. Students **MUST** have excellent attendance to become a student assistant.

Note: Students may only have 2 semesters of Student Assistantships per year! Preference will be given to the seniors.

