BILLINGS
PUBLIC SCHOOLS
Inspire Educate Empower

High School Course Offerings

2023-2024

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SEE SCHOOL WEBSITE FOR MOST UPDATED VERSION

SKYVIEW FALCONS

BILLINGS CAREER CENTER

Billings Public High Schools
Administration and Counselors
Executive Director of High School Curriculum – Dr. Chris Olszewski – 281-5083
Career Outreach Director – Bo Bruinsma – 281-5075

SENIOR HIGH ADMINISTRATION - 281-5400
Principal - Jeff Uhren

Associate Principal - Tyler Blood

Assistant Principals
Brian Kroll
Michele Strouf
Matt Clouser

Counseling Department
Simon Bergen
Mandy Brottem
Jennifer Moore
Hayley Steinberg
Abby Elliott
Logan McKenney
Career Coach - Bailee Vaughn

WEST HIGH ADMINISTRATION - 281-5600
Principal – Kelly Hornby

Associate Principal – Dr. Jeril Hehn

Assistant Principals
Rob Bazant
Rod Gottula
Fred Petak

Counseling Department
Siobhan Flynn
Levi Grosskop
Kim Petersen
Dave Spring
Beth Tocci
Dana Conway
Tami Radakovich
Career Coach – Jenny Randall

SKYVIEW HIGH ADMINISTRATION - 281-5200
Principal - Jay Wahl

Assistant Principals
Scott Lynch
Jeremy Carlson
Peter Hamilton
Jamie Nixdorf

Counseling Department
Marilyn Anderson
Tina Boone
Rick Bermes
Bonnie Hofmann
Jamie McIlvain
Career Coach – Tammi Watson

CAREER CENTER ADMINISTRATION - 281-5344
Director - Scott Anderson

Associate Director - Darwin Schaaf

Counseling Department
Amanda Peitz
Janet Tsiguloff
Career Coach - Vicki Cavanaugh

ADULT ED - 281-5001
Director - Randy Russell

Counseling Department
Jesse Sauskojus
Charlene Hurd

***Update as of January, 2023. Please see school websites for most current contact lists.**

GRADUATION REQUIREMENTS

Montana High School Association Eligibility

1. The rules of the Montana High School Association fully govern the eligibility of any and all students with regard to participation in all forms of extra-curricular activity.
2. MHSA requires that students must have passed 20 hours of instruction per week in credited classes the previous semester for eligibility. Students are allowed to take two (2) classes that are not conducted within the brick and mortar of the school.
3. Only the grades of A, B, C, D, and P are passing grades. "F" and "IN" grades are NOT passing grades.
4. Summer school classes do not count toward eligibility.

Billings Public Schools Graduation Requirements

9th Grade Requirement
In order to ensure high school success, 9th grade students must be proficient in reading and math skills.
Required:
A 9th Grade student who scores below proficiency in reading upon exit from 8th grade will be required to take a reading class.
A 9th Grade student who scores below proficiency in math upon exit from 8th grade will be required to take Pre-Algebra.

To be graduated from a Billings public high school, a student shall have earned a minimum of (21) credits in grades nine through twelve from an accredited high school.

High School Graduation Requirements
4 credits in English
2 credits in Mathematics
1 credit in World History
1 credit in American History
½ credit in American Government
½ credit in a senior Social Studies course
1 credit in Biology
1 credit in Earth Science or Physics or Chemistry
1 credit in Health and Physical Education
1 credit in the Visual or Performing Arts
1 credit in Career Technical Education
7 credits elective

21 credits will be required for graduation

High School Graduation Requirements
Beginning with the graduating class of 2027 students will complete ½ credit of Financial Literacy or Economics within the current requirements of 21 credits. Courses that will apply are:
*Personal Finance (1/2 credit CTE)
*Jobs for Montana Graduates-Career Center
*Economics (1/2 credit Social Studies)

*Pending final approval by the Montana Board of Public Education and School District 2 Board of Trustees. Additional courses may become available in the future to meet this requirement.

To be graduated from a Billings high school, a student shall have been in attendance in grades 9-12 in an accredited high school for no fewer than eight (8) full semesters, unless an exception is granted by the Superintendent or their designee.

A student complying with the above meets the graduation requirements of the Montana State Board of Education.
For complete requirements see School District Policy 2410.

Valedictorian Criteria

1. Honors and AP classes will be weighted. This means that those classes will be awarded an extra point in the GPA system. An A= 5, a B = 4, and a C = 3. D and F grades will remain D's and F's.

2. The student with the highest weighted grade point average after eight semesters of high school course work will be deemed valedictorian. In the case of a tie, multiple valedictorians will be recognized.

3. All students vying for valedictorian must earn at least 24 credits.

4. Of those 24 credits, all required courses for graduation must be completed.

For the purpose of determining valedictorian, High School GPA and Class Rank will be calculated at the end of eight (8) semesters as follows:

1. All weighted grades will be included first.

2. All non-weighted grades up to 24 credits will be included next.

3. If a student has more than 24 credits, any additional non-weighted A's will not be included.

- Grade Point Average (GPA) is based on four years of high school. Grades and credit from eligible classes taken prior to enrollment in high school will be reflected on the transcript, but not calculated in the GPA (i.e.Middle School Algebra 1 and Honors Geometry).

- The credit, if earned at middle school, will still be awarded. The course and grade will be reflected on the high school transcript.

- Class Rank: In the weighted system, GPA will be rounded to the nearest hundredths. Class rank and percent will be calculated on the rounded GPA. This protocol will compensate for variations in GPA beyond the nearest tenth due to students taking full or extended course schedules.

- Please visit with your child's counselor for assistance in completing college scholarships and/or college applications that ask for Class Rank and/or Class Percentile.

Graduation Academic Recognition: Students will be given academic recognition at graduation as follows:

Highest Honor:	3.9 or Higher GPA
High Honors:	3.89 -- 3.75 GPA
Honors :	3.74 -- 3.50 GPA

NCAA Clearinghouse

NCAA Freshmen-Eligibility Standards
Quick Reference Sheet
Know the Rules
Core Courses

For more information regarding the rules, please go to www.ncaa.org. Click on "Academics and Athletes" then "Eligibility and Recruiting." Or visit the Eligibility Center Web site at www.ncaaclearinghouse.net.
***Students are encouraged to visit with their High School Counselor.
***Please call the NCAA Eligibility Center if you have questions: toll-free number: 877-262-1492.

NAIA

Students who wish to attend NAIA Colleges as an athlete should visit the eligibility center at www.playnaia.com.
***Students are also encouraged to visit with their High School Counselor.

Courses for Students with Special Needs
Grades 9, 10, 11, 12

Courses
+English 1
+English 2
+English 3
+English 4
+Math 1
+Math 2
+Math 3
+Math 4
+Reading
+Learning Strategies
+Basic Skills

Life Skills Courses
+Health
+Human Development
+Home Economics
+Practical Arts/Foods

Career and Vocational
+Career/Assessment
+Credit Job
+OJT
+Career Center Construction (11-12)
+Career Vistas 1
+Career Vistas 2
+Vistas Crew
+VOC Training
+Occupation SKL
+Career/Explore
+ Vocational Ed

Other Courses
+Communication Skills
+Social Issues
+English Skills
+BASE

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CAREER CENTER PROGRAMS

ENGLISH LANGUAGE ARTS

COMMUNICATION ARTS-ENGLISH

English Language Arts

The English program in Billings Public Schools concentrates on developing and refining students' skills in the areas of reading; writing; speaking and listening; language; and media and technology. The goal of the district's English program is to prepare students for entry-level, credit-bearing academic and college courses and/or for entry into the workforce. To that end, students complete coursework that helps them progress through increasingly complex literature and informational texts. Writing instruction focuses on developing the student's ability to develop and support logical arguments, to conduct and present research, to compose authentic narratives, and to inform and explain through written communication. In order to develop their reading and writing skills, students will participate in speaking and listening opportunities, grow their vocabularies, and hone their understanding and use of mechanics and conventions. Media and technology play an important role in this instruction, so the students will continue to develop skills related to the use of media and technology.

When it comes to text selection, the study of literature and informational texts provides the springboard for thoughtful analysis, for discussion, and for writing in various modes. Providing students a cross section of texts, including a strong core of literary classics, promotes students' understanding of their literary heritage and culture, which provides for a universal base in the English language. Honors courses at each level give students the opportunity to stretch their learning by choosing more rigorous academic challenges. Similarly, elective courses at the senior level provide opportunities for students to choose courses according to their college and career aspirations and/or their individual reading preferences.

Required readings are a part of our district curriculum. Objections to assigned reading should be brought to the attention of the teacher as alternate assignments may be available.

The Advanced Placement English Literature curriculum is subject to the approval of the College Board and is intended to provide students with a rigorous academic experience that prepares them for college-level reading, writing, and discussions. As stated by the College Board, "Issues that might, from a specific cultural viewpoint, be considered controversial, including references to ethnicities, nationalities, religions, races, dialect, gender, or class, are often represented artistically in works of literature [...] Advanced Placement students should have the maturity, the skill and the will to seek the larger meaning [of texts'."

+English 1	Credits 1	9, 10, 11, 12
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: + English 1 is a remedial English program. It is governed by the student's IEP and focuses on improving skills in reading and writing.

Prerequisite Courses: None

Applies toward graduation requirements of: 4 English credits

English 1	Credits 1	9
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: English 1 is required of every freshman student who is not enrolled in Honors English 1.

Prerequisite Courses: None

Applies toward graduation requirements of: 4 English credits

Honors English 1	Credits 1	9
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: Honors English 1 is a differentiated curriculum designed for students who are prepared to tackle rigorous academic challenges. Placement for Honors English 1 takes into consideration achievement information from standardized reading and language tests given in grades 7 and 8, teachers' recommendations, grade 8 English grades, completion of summer reading assignments, satisfactory performances on writing assessments, and a student's willingness to accept the challenge of this Honors English course.

Prerequisite Courses: Honors placement guidelines recommended

Applies towards graduation requirements of: 4 English credits

Reading Foundations	Credits 1	9, 10
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: This class is a required literacy intervention for students scoring below proficiency in reading on the NWEA tests or on any of two or more other achievement indicators. Minimum national percentile requirements must be met in order to exit. Students not meeting the 9th grade exit requirements will enroll in a reading class as sophomores.

Prerequisite Courses: Placement criteria recommended

Applies toward graduation requirements of: 7 Elective credit

+English 2	Credits 1	10
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: +English 2 is a remedial English program. It is governed by the student's IEP and focuses on improving skills in reading and writing.

Prerequisite Courses: None

Applies toward graduation requirements of: 4 English credits

English 2	Credits 1	10
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: English 2 is required of every sophomore student who is not enrolled in an Honors English 2.

Prerequisite Courses: None

Applies toward graduation requirements of: 4 English credits

Honors English 2	Credits 1	10
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: Honors English 2 is a differentiated curriculum developed for students who are prepared to tackle rigorous academic challenges. In addition to the students' willingness to accept the challenge of this Honors English course, placement for Honors English 2 requires successful completion of Honors English 1, or exemplary completion of previous English classes and completion of summer reading assignments.

Prerequisite Courses: 1 credit in a freshman English course and honors placement criteria recommended

Applies toward graduation requirements of: 4 English credits

+ English 3	Credits 1	11
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: +English 3 is a remedial English program. It is governed by the student's IEP and focuses on improving skills in reading and writing.

Prerequisite Courses: None

Applies toward graduation requirements of: 4 English credit

US Lit/US History Block-Senior High only	Credits 1-English Credit 1 - Social Studies	11
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: The combination of American History and American Literature follows the curriculum and essential requirements currently established and approved by Billings Public Schools for English 3 and United States History. This American Studies approach encourages the students to appreciate and understand the links between the past events and the literature about and by those who experienced these events. As a result, students have the opportunity to examine complementary literary genres and historical periods in this unique course. Those who enroll in this block course are required to take both sections of the literature and history block both semesters.

TWO –HOUR BLOCK

Prerequisite Courses: 1 credit in a sophomore English course.

Applies toward graduation requirements of: 4 English credits, 3 Social Studies credits

English 3	Credits 1	11
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: English 3 is required of every junior student who is not enrolled in AP English Language and Composition or US Lit/US History Block (Senior High only).

Prerequisite Courses: None

Applies toward graduation requirements of: 4 English credits

AP English Language & Composition	Credit 1	11
Course Name	**Semester 1 & 2**	**Grade Level**

The course cultivates reading and writing skills that students need for college success and for intellectually responsible civic engagement. The course guides students in becoming curious, critical, and responsive readers of diverse texts, becoming flexible, reflective writers of texts addressed to diverse audiences for diverse purposes...The reading and writing students do in the course deepen and expand their understanding of various formal and informal genres. Reading and writing activities in the course also deepen students' knowledge and control of formal conventions of written language.

This course focuses on rhetorical analysis and argument and is structured around the global idea of ethics and morality. The texts chosen for the course will be predominantly nonfiction. The reading selections will teach students to think and read critically and will also serve as models of academic and professional writing. This course may require purchase of some paperback materials and does require the completion of a summer reading assignment as per instructor's discretion.

Prerequisite Courses: One credit in a sophomore English course

Applies toward graduation requirements of: 4 English credits

12

+English 4	Credit 1	
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: +English 4 is a remedial English program. It is governed by the student's IEP and focuses on improving skills in reading and writing.

Prerequisite Courses: None

Applies toward graduation requirements of: 4 English credits

AP English Literature & Composition	Credit 1	12
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: In the AP English Literature and Composition course, students devote themselves to the study of literary works written in–or translated into–English. Careful reading and critical analysis of such literary works of fiction, drama, and poetry, selected locally by responsible educators, provide rich opportunities for students to develop an appreciation of ways literature reflects and comments on a range of experiences, institutions, and social structures. Students will examine the choices literary writers make and the techniques they utilize to achieve purposes and generate meanings. The course may require the purchase of some paperback materials, and it does require the completion of a summer reading assignment as per instructor's discretion.

Prerequisite Courses: 1 credit in a junior English course

Applies toward graduation requirements of: 4 English credits

English 4	Credit 1	12
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: English 4 is required of every senior student not enrolled in another equivalent senior year English course. The focus is on college and career readiness skills.

Prerequisite Courses: None

Applies toward graduation requirements of: 4 English credits

Contemporary Literature	Credit 1/2	12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: Students will study a variety of cross-cultural texts from the mid-20th and 21st centuries in order to become familiar with differing world viewpoints and perspectives. Students will study texts and literature in order to gain understanding and be able to make connections to the world in which they live as well as find meaning in the connections they make. Selected novels will be read and analyzed. Short stories, plays, and other fiction and non-fiction works will be explored. Emphasis will be placed on gaining knowledge to connect aspects of the works they read with other texts/pieces with which they are already familiar and those pieces they read during the course of the class. **If scheduled as a full year course, all writing and reading requirements of first semester English 4 (12th Grade) and a Shakespeare play will be included in this course.**

Prerequisite Courses: 1 credit in a junior English course

Applies toward graduation requirements of: 4 English credits

College Writing/English 4	Credits 1 (½ Each Semester) 3 Credits @ City College/MSU-B and MSU-B	12
Course Name	**Semester 1 & 2 (Year Long Class)**	**Grade Level**

Course Description: This course covers the Billings Public Schools English 4 curriculum and integrates and provides instruction in writing competencies expected of college students. It pays special attention to writing as a problem-solving process, patterns of organization in personal and informative writing, and logical thinking and style in argumentative/persuasive writing. Students are immersed in the writer's workshop classroom model through writing and responding to writing (their own and from other authors) on a daily basis. It is the equivalent to Writing 101 which is offered at City College at MSU-Billings and MSU-Billings. This is a concurrent enrollment course and students will be required to test into it in order to receive college credit. Other requirements may apply. Please contact your counselor for additional information.

In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

City College/MSU Billings and MSU Billings: 3 credits in WRIT 101 will be issued to students who pass the College Writing/English 4 class and complete all WRIT 101 competencies.

Prerequisite Course: Successful completion of English 3
Qualifying score on either the Accuplacer Exam or the ACT

Applies toward graduation requirements of: 4 English Credits

Health and Physical Education

HEALTH AND PHYSICAL EDUCATION

All students need to take one credit in Health Enhancement 1 to graduate.
Students may take additional Health & Physical Education classes from the following:

Activities
9, 10, 11, 12

****Fitness Conditioning**
9, 10, 11, 12

****Weight Training**
9, 10, 11, 12

****Advanced Activities**
11, 12

****Community Fitness**
11, 12

Introduction to Officiating and Coaching Youth Sports
11, 12

****Lifetime Skills**
11, 12

Sports Medicine
11, 12

Unified Physical Education
Reg. Ed. 10, 11, 12
****Spec. Ed. 9, 10, 11, 12**

** Indicates a course that can be taken more than once for credit

Health Enhancement 1	Credit 1	9, 10, 11, 12
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: Health Enhancement 1 is a two semester course which meets daily and combines the delivery of health education into one curriculum which emphasizes health, fitness, wellness and social responsibility. This course includes all of the components of a Health Education Curriculum and those of Physical Education.

Prerequisite Courses: None
Applies toward graduation requirements of: 1 Health Enhancement and Physical Education credit

Activities	Credit 1/2	9, 10, 11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: Activities is a one semester elective course offered at the freshman and sophomore year. This course was designed as an *introduction* to individual and team sports emphasizing sportsmanship and enhancing the concepts of working cooperatively as a group. Students will also develop goals related to personal fitness and lifelong health.

Prerequisite Courses: None
Applies toward graduation requirements of: 7 Elective Credits

Fitness Conditioning	Credit 1/2	9, 10, 11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: Through the basic concepts of strength and cardiovascular conditioning, the students learn the importance of lifetime fitness as they assess their own fitness levels, develop personal fitness goals, and monitor their progress. This course is designed for students who want to develop personal weight/fitness goals.

Prerequisite Courses: None
Applies toward graduation requirements of: 7 Elective credits

Weight Training	Credit 1/2	9, 10, 11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: This course offers students the opportunity to develop a higher level of aerobic fitness and strength necessary for competing in high school athletics or post secondary pursuits. The students will learn and develop several techniques used to improve athletic skill, strength and flexibility. With the use of free weights, plyometerics, agility and cardiovascular exercises, students will enhance their basic and skill related fitness components. This course is extremely demanding with mandatory attendance, participation and effort. Proper clothing is a daily requirement.

Prerequisite Courses: None
Applies toward graduation requirements of: 7 Elective credits

Advanced Activities	**Credit 1/2**	**11, 12**
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: Advanced Activities is a one semester elective course offered at the junior and senior year. The curriculum is designed to explore and expand team and dual sports emphasizing sportsmanship and enhancing the concepts of working cooperatively as a group. Students will also develop goals related to personal fitness and lifelong health. This class may meet off campus multiple times per week.

Prerequisite Courses: Health Enhancement 1
Applies toward graduation requirements of: 7 Elective credits. *Students must provide own transportation. Fees are required.*

Community Fitness	**Credit 1/2**	**11, 12**
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: This is a semester long course combines a variety of fitness and exercise components. Students learn the importance of lifetime fitness as they assess their own fitness levels, develop personal fitness goals, and monitor their progress. This class may meet off campus multiple times per week.

Prerequisite Courses: Health Enhancement 1
Applies toward graduation requirements of: 7 Elective credits. *Students must provide own transportation. Fees are required.*

Introduction to Officiating And Coaching Youth Sports	**Credit 1/2**	**11, 12**
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: This course is designed to teach students the basics of officiating and/or coaching sports. Students will learn basic concepts of officiating associated with learning how to become a beginning MOA official. This class will include classroom, lab and hands on sessions with active MOA officials from the community.

Prerequisite Courses: Health Enhancement 1
Applies toward graduation requirements of: 7 Elective credits

Lifetime Skills	**Credit 1/2**	**11, 12**
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: Lifetime Skills is a one semester course for elective credit offered at the junior and senior year. The curriculum is designed to explore and expand leisure activities with a goal of developing overall health and fitness personal goals. This class may meet off campus multiple times per week.

Prerequisite Courses: Health Enhancement 1
Applies toward graduation requirements of: 7 Elective credits. *Students must provide own transportation. Fee are required.*

Sports Medicine	Credit 1/2	11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: This course is designed to teach the student basic human anatomy, physiology and kinesiology as it relates to exercise and athletics. Students will learn basic concepts of injury prevention, recognition and rehabilitation as well as conditioning and athletic nutrition. The course is based on a lecture/discussion format and will include hands-on laboratory sessions with periodic professional speakers from the field of sports medicine. This course helps prepare students to be trainers within the high school athletic programs.

Prerequisite Courses: Health Enhancement 1

Applies toward graduation requirements of: 7 Elective credits

Unified Physical Education (West & Skyview only)	Credit 1/2	Reg. Ed. 10, 11, 12 Spec. Ed. 9, 10, 11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: The Unified PE course brings together students with and without disabilities for physical activities and sports, with the goal of enhancing the physical, intellectual, and social growth of all. The class focuses on increasing physical fitness and sport-specific skills, rules, and strategies. It also reinforces positive habits and reasoning to make better health and lifestyle choices. Students will work to increase competence and confidence in a variety of physical activities. The teacher will facilitate a learning atmosphere in which typically developing peers learn to better understand their classmates' needs and learn to find creative ways to adapt instruction. This class naturally fosters new friendships among the Unified PE classmates and promotes students' leadership and social competencies. In Unified PE, individualism and inclusion naturally coexist. The environment is rich in encouragement, trust, and lasting friendships.

Regular education students can only take one time or are required instructor approvals. Special education students may take the course multiple times.

Prerequisite Courses: None

Applies toward graduation requirements of: 7 Elective Credits

Math

MATH

Recommended Mathematics Course Paths--Refer to specific school for more information

Current Course	Logical Next Course	Other Optional Courses
Pre-Algebra	Algebra 1	General Applied Math *See Prerequisites
Algebra 1	Geometry	
Geometry	Algebra 2 (C's or better in Alg1 & Geometry)	Interm. Alg if less than C's in Alg 1 or Geo
Honors Geometry	Honors Algebra 2	Regular Alg 2 if less than B's in Hon Geo
Intermediate Algebra	Algebra 2	
Algebra 2	Pre-Calculus	College Algebra (ACT 22 or Accuplacer)
		Functions, Statistics, Trig
Honors Algebra 2	AP Pre-Calculus	Regular Pre-Calc if less than B's in Hon Alg 2
Pre-Calculus	AP Calculus or AP Statistics	
AP Pre-Calculus	AP Calculus and/or Statistics	
College Algebra (Semester)	College Trig or College Stats	Graduate
AP Statistics	Graduate	
AP Calculus AB	Graduate or AP Calculus BC	

- In the high school math progression, a full year of Algebra is a prerequisite for Geometry; a full year of Geometry is a prerequisite for Algebra 2, etc.
- Students take only one math class at a time.
- Math placement criteria involves not only NWEA scores, but also successful completion of prerequisite math courses.
- If math placements are to be corrected, this should take place in September - students cannot move up a math level (Pre-Algebra to Algebra 1 or Algebra 1 to Geometry) at the semester as they will have missed the concepts and skills taught during first semester. This gap in skills and knowledge will create problems for students when they move on to Geometry, Algebra 2, and higher levels of math.

+ Math 1 - 4	Credit 1 per Level	9, 10, 11, 12
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: + Math is a remedial program. It is governed by the student's IEP; the program focus is to remediate skills in number concepts and computation. Students will demonstrate competencies in required math skills and related activities and will express themselves through oral and written problem solving.

Prerequisite Courses: None
Applies toward graduation requirements of: 2 Math credits or 7 Elective credits

Pre-Algebra	Credit 1	9
Course Name	**Semester 1 and/or 2**	**Grade Level**

Course Description: Pre-Algebra provides learners with an opportunity to review and study foundational topics for Algebra 1. Students learn about slopes of lines, various applications and representations of linear equations and functions, and informal strategies to solve problems involving systems of linear equations in two variables. Further, they learn how to explore data sets by organizing, modeling, interpreting, describing and making predictions. Finally, they learn how to analyze two-and three-dimensional spaces and figures. The Mathematical Practice Standards apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

Prerequisite Course: Per placement criteria
Applies toward graduation requirements of: 2 Math credits

Algebra 1	Credit 1	9, 10
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: The fundamental purpose of this course is to formalize and extend the mathematics that students learned in the middle grades. Algebra 1 deepens and extends understanding of linear relationships, in part by contrasting them with exponential and quadratic phenomena, and in part by applying linear models to data that exhibit a linear trend. Students engage in methods for analyzing, solving, and using linear, exponential, and quadratic functions. The Mathematical Practice Standards apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

Prerequisite Course: Pre-algebra
Applies toward graduation requirements of: 2 Math credits

Geometry	Credit 1	9, 10, 11
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: Geometry students explore more complex geometric situations and deepen their explanations of geometric relationships, moving towards formal mathematical arguments. Transformations are emphasized. The Mathematical Practice Standards apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.
Prerequisite Course: Algebra 1
Applies toward graduation requirements of: 2 Math credits

Honors Geometry	Credit 1	9, 10, 11
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: Honors Geometry includes all the subject content of the regular geometry course but more emphasis is given to trigonometry. Honors mathematics students need to have strong number sense, a strong algebraic background and be motivated self-learners. Chapter projects take the students into real world applications of the mathematics and may require time outside of class to complete. The Mathematical Practice Standards apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

Prerequisite Course: Algebra 1 and test scores meeting placement criteria

Applies toward graduation requirements of: 2 Math credits

Intermediate Algebra	Credit 1	10, 11, 12
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: Intermediate Algebra is for students who need a bridge course prior to Algebra 2 following the completion of Geometry. This course reviews essential Algebra 1 topics and prepares students for success in Algebra 2. Topics include field properties and theorems, set theory, solving systems of linear equations and inequalities, solving and graphing quadratics and the use of technology.

Prerequisite Courses: Geometry

Applies toward graduation requirements of: 2 Math credits or 7 Elective credits

Algebra 2	Credit 1	10, 11, 12
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: Algebra 2 students extend their repertoire of functions to include polynomial, rational, and radical functions. They expand their study of right triangle trigonometry to model periodic phenomena. Students work closely with expressions that define the functions and continue to expand and home their abilities to model situations and solve equations over the set of complex numbers. The Mathematical Practice standards apply throughout each course and, together with content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

Prerequisite Courses: Geometry or Honors Geometry

Applies toward graduation requirements of: 2 Math credits or 7 Elective credits

College Algebra (Math 121)	Credit 1/2	11, 12
Course Name	**Semester 1**	**Grade Level**

Course Description: College Algebra is a rigorous course that analyzes and interprets the behavior and nature of functions including linear, quadratic, polynomial, rational, exponential, logarithmic, power, absolute value, and piecewise-defined functions. Additional topics include systems of equations, matrices, and making decisions using probability. This course qualifies for Dual Enrollment Credit through Montana State University-Billings. Students must pass entrance requirements and pay course fees for MATH 121.

Prerequisite: Algebra 2 and qualifying test score on the ACT Math Test or the Accuplacer Exam.

Applies toward graduation requirements of: 2 Math credits

College Trigonometry (Math 122)	Credit 1/2	11, 12
Course Name	**Semester 2**	**Grade Level**

Course Description: Trigonometry is often considered a "gateway" course because its content is necessary for further study in upper level mathematics and the sciences. Topics covered in Trigonometry include: the unit circle, trigonometric functions (definitions, graphs, and inverses), right and oblique triangles, trigonometry identities, trigonometric equations the trigonometric form of complex numbers, two-dimensional vectors, polar coordinates, and parametric equations. This course qualifies for Dual Enrollment Credit through Montana State University-Billings. Students must pass entrance requirements and pay course fees for MATH 122.

Prerequisite: Math 121

Applies toward graduation requirements of: 2 Math credits or 7 Elective credits

Honors Algebra 2	Credit 1	10, 11
Course Name	**Semester 2**	**Grade Level**

Course Description: Honors Algebra 2 includes all the subject content of the regular Algebra 2 course but more emphasis is given to algebraic modeling, functions, matrices, trigonometry, sequence and technology to prepare students for other courses in the honors mathematics sequence. Honors mathematics students need to have strong number sense, a strong algebraic background and be motivated self-learners. Chapter projects take the students into real world applications of mathematics and may require time outside of class to complete. Students analyze data and connect mathematics topics. The Mathematical Practice Standards apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

Prerequisite Courses: Geometry (with department head or administrator approval) or Honors Geometry

Applies toward graduation requirements of: 2 Math credits or 7 Elective credits

Functions, Statistics, & Trigonometry

Senior High Only	**Credit 1**	**11, 12**
Course Name	**Semester 1 & 2**	**Grade Level**

Functions, Statistics, & Trigonometry (FST) is a math option for students that have successfully completed courses through Algebra 2, but are still struggling with math standards that are essential for post-secondary classes. This course focuses on engaging the students in a real-world context and is designed to serve as a bridge for high school students who will enroll in postsecondary study.

FST incorporates the Montana Standards for Mathematical Practices as well as the following Montana Standards for Mathematical Content: Expressions and Equations, The Number System, Functions, Algebra, Geometry, Number and Quantity, Statistics and Probability, and the Montana Standards for High School Modeling. It addresses concepts throughout high school and even earlier, including Algebra1, Statistics and concepts throughout high school and even earlier, including Algebra 1, Statistics and Geometry, and the Algebra 2 deemed as essential for college and career readiness.

Prerequisite Courses: Algebra 2

Applies toward graduation requirements of: 2 Math credits or 7 Elective credits

Precalculus	**Credit 1**	**11, 12**
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: Precalculus students focus on standards to prepare students for a more intense study of mathematics. They expand their study of circles and parabolas to other conics. Trigonometric functions are further developed to include inverses, general triangles, and identities. Matrices provide an organizational structure in which to represent and solve complex problems. Students expand the concepts of complex numbers and the coordinate plane to represent and operate upon vectors. Probability rounds out the course using counting methods, including their use in making and evaluating decisions. The Mathematical Practice Standards apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

Prerequisite Courses: Algebra 2 or Honors Algebra 2

Applies toward graduation requirements of: 2 Math credits or 7 Elective credits

AP Pre-Calculus	Credit 1	10, 11, 12
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: AP Precalculus centers on functions modeling dynamic phenomena. This research-based exploration of functions is designed to better prepare students for college-level calculus and provide grounding for all mathematics and science courses. In this course, students study a broad spectrum of function types that are foundational for careers in mathematics, physics, biology, health science, social science, and data science.

During this course, students acquire and apply mathematical tools in real-world modeling situations in preparation for using these tools in college-level calculus. Modeling, a central instructional theme for the course, helps students come to a deeper understanding of each function type.

Throughout this course, students develop and hone symbolic manipulation skills needed for future mathematics courses. They also solve equations and manipulate expressions for the many function types throughout the course.

AP Precalculus fosters the development of a deep conceptual understanding of functions.

Prerequisite Courses: Algebra 2 (with department head or administrator approval) or Honors Algebra 2

Applies toward graduation requirements of: 2 Math Credits or 7 Elective Credits

AP Calculus AB	Credit 1	11, 12
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: AP Calculus is a college-level course that provides students with an understanding of the concepts of calculus and experience with its methods and applications. This course is also designed to prepare students for the AP Calculus exam. Topics include analysis of functions, limit theory, derivatives and integrals.

Prerequisite Courses: AP Precalculus

Applies toward graduation requirements of: 2 Math credits or 7 Elective credits

AP Calculus BC	Credit 1	12
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: AP Calculus is a college-level course that provides students with an understanding of the concepts of calculus and experience with its methods and applications. This course is also designed to prepare students for the AP Calculus BC exam. Topics include analysis of functions, limit theory, derivatives and integrals, infinite series,and parametric equations.

Prerequisite Courses: AP Calculus AB

Applies toward graduation requirements of: 2 Math credits or 7 Elective credits

AP Statistics	Credit 1	12
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: AP Statistics is a college-level course that introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students will learn exploring data, planning a study, anticipating patterns, and statistical inference. This course is also designed to prepare students for the AP Statistics exam.

Prerequisite Courses: Algebra 2 or Precalculus (with department head or administrator approval) or AP Precalculus

Applies toward graduation requirements of: 2 Math credits or 7 Elective credits

College Introduction To Statistics	Credits 1/2 4 Credits @ MSU-Billings	11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: College Introduction to Statistics covers descriptive techniques, probability distributions, and statistical inference of one and two sample tests and associated confidence intervals for means and proportions and linear regression. Introduces statistical analysis using technology. This course qualifies for Dual Enrollment Credit through Montana State University-Billings. Students must pass entrance requirements and pay course fees.

MSU-Billings: 4 credits in STAT 216 will be issued to students who pass the College Introduction to Statistics and complete all STAT 216 competencies.

Prerequisite Course: Algebra 2 and qualifying test score on the ACT Math Test or on the Accuplacer Exam.

Applies toward graduation requirements of: 2 Math credits or 7 Elective credits

General Applied Math	Credit 1	11, 12
Course Name	**Semester 1 and /or 2**	**Grade Level**

Course Description: General Applied Math is a class that provides learners with the opportunity to study the essential skills of Pre-Algebra and Algebra 1 to solve real-world problems. This class is reserved for students who struggled academically in Pre-Algebra and have failed Algebra 1. Topics include number sense, fractions and percentages, expressions, equations and inequalities in one variable, linear equations and inequalities, systems of equations and inequalities and exponential functions. Students learn the following topics: Income, taxes, loans, bank accounts, budgets, and personal finance in order to prepare them for life after graduation.

Prerequisite Course: Mandatory Pre-Algebra, Failed Algebra 1, recommendation from previous math teacher, and Assistant Principal approval. Must be a Junior or Senior.

Recommended: Algebra 1 attempted

Applies toward graduation requirements of: 2 Math credits

Science

SCIENCE

Science courses allow students to gain knowledge and an understanding of the world of nature. Our lives are greatly influenced by those who study and work in science areas.

Coursework can vary from the required two credits to four or more credits for those who wish to explore many disciplines of science. Whether students plan to attend college or pursue a technical career, they are encouraged to explore the sciences each year of high school.

Graduation requirements include one credit in biological science and one credit of physical science. Please see course descriptions for specific prerequisites and/or mathematics requirements.

Course Options in Science by Grade Level

Grade 9	Grade 10	Grades 11, 12
*Earth Science	*Biology 1	* Chemistry or Honors Chemistry
*Honors Earth Science	*Honors Biology 1	*Biology 2
*Biology 1	*Chemistry	*Human Anatomy & Physiology
*Honors Biology 1	*Honors Chemistry	*Environmental Science
	*Physics 1	*Geology
	*AP Physics	*Physics 1
		*AP Biology
		*AP Chemistry (2nd Year Course)
		*AP Physics
		*AP Physics 2

Earth Science	Credit 1	9
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: Earth Science is a one-year laboratory course in which the students will investigate the areas of Geology, Meteorology, Astronomy and Hydrology. Earth Science will strengthen the students basic investigative skills, enhance their ability to process information, and prepare them to make rational decisions concerning humans' interactions on Earth.

Prerequisite Courses: None
Applies toward graduation requirements of: 1 Physical Science credit

Honors Earth Science	Credit 1	9
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: Honors Earth Science can expect a more challenging, rigorous curriculum that focuses on greater depth of topics and concepts, higher level questions, and intrinsic motivation on the part of the student. Students will be expected to do formal laboratory write-ups, reading outside of class, and use math for data analysis.

Prerequisite Courses: Must meet established placement criteria: Must have at least a B average in Physical Science for the first three quarters, Spring Reading RIT of at least 230, Spring Math RIT of at least 244

Applies toward graduation requirements of: 1 Physical Science credit

Biology 1	Credit 1	9, 10, 11, 12
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: This is an introductory survey course into the animal and plant kingdoms. Students will study the chemical basis of life and survey the diversity of living things. The course includes dissection for the study of anatomy.

Prerequisite Courses: None.

Note: There are no math requirements for Biology 1, but 9th Graders in Biology or Honors Biology are recommended to be in or have completed Geometry in order to meet the math requirements the following year in Chemistry and Physics.

Applies toward graduation requirements of: 1 Biology Science credit

Honors Biology 1	Credit 1	9, 10
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: Honors Biology 1 can expect a more challenging, rigorous curriculum that focuses on greater depth of topics and concepts, higher level questions, and intrinsic motivation on the part of the student. Students will be expected to do formal laboratory write-ups, reading outside of class, and use math for data analysis.

Prerequisite Courses: Same prerequisites as Biology 1 and must meet established placement criteria: Spring Reading RIT of at least 232, Spring Math RIT of at least 248. Ninth grade students must have completed or are concurrently enrolled in Geometry.

Applies toward graduation requirements of: 1 Biology Science credit

AP Biology	Credit 1	11,12
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: AP Biology is an introductory college-level biology course. There is a strong emphasis on descriptive writing in this course, as well as further development of lab skills. Students cultivate their understanding of biology through inquiry-based investigations as they explore the following topics: evolution, cellular processes - energy and communication, genetics, information transfer, ecology, and interactions.

Prerequisite Courses - Biology 1 and Chemistry

Applies toward graduation requirements of: 1 Biology Science credit or 7 Elective Credits

Biology 2	Credit 1	11, 12
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: Biology 2 has two major objectives. The first is to provide students with the opportunity to engage in a variety of lab-based activities such as recombinant DNA technology, fruit fly genetics, and ecosystem analysis. The second objective is to provide students with an in-depth and up-to-date coverage of major biological concepts. The motivated student will find Biology 2 to be a great help in making the transition into college level biology courses.

Prerequisite Courses: This course is designed for students who have earned credits in Biology 1 and a physical science.

Applies toward graduation requirements of: 1 Biology Science credit **or** 7 Elective credits

Chemistry	Credit 1	10, 11, 12
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: The chemistry course presents a modern approach to the principles of chemistry at a level suitable for the majority of high school students. The course has been developed within the framework of certain unifying concepts such as the chemical bond, the structure of matter, the matter-energy relationships, the periodicity of elements, the mole concept, chemical notation, the behavior of matter in terms of acidity, oxidation-reduction, chemical reactions, stoichiometry and chemical equations. The student is encouraged to think and reason independently.

Prerequisite Courses: This course is designed for students who have earned credits in Biology. Students may take this class if they have completed Algebra 1 and Algebra 2 with a "C" grade or better, or have completed Algebra I with a "C" grade or better and are concurrently enrolled in Algebra 2.

Applies toward graduation requirements of: 1 Physical Science credit **or** 7 Elective credits

Honors Chemistry	Credit 1	10, 11, 12
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: Honors Chemistry is a first year course with emphasis on mathematical concepts in Chemistry. It covers the same topics as Chemistry and develops problem solving skills. In addition to an in depth study of the core curriculum, students will explore additional topics and labs.

Prerequisite Courses: This course is designed for students who have earned credits in Biology with a "B" grade or better and completed Algebra 2 with a "B" grade or better. Students may take this class if they are concurrently enrolled in Algebra 2 and have completed Algebra 1 with a "B".

Applies toward graduation requirements of: 1 Physical Science credit or 7 Elective credits

AP Chemistry	Credit 1	11, 12
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: AP Chemistry is a second year course, and provides students with a college-level foundation to support future advanced coursework in chemistry. Students cultivate their understanding of chemistry through inquiry-based investigations, as they explore topics such as: atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics, and equilibrium.

Prerequisite Courses - Chemistry or Honors Chemistry

Applies toward graduation requirements of: 1 Physical Science credit or 7 Elective credits

Geology	Credit ½ each semester	11, 12
Course Name	**Semester 1 and/or 2**	**Grade Level**

Course Description: Geology focuses on mineral and rock development and how natural forces cause these materials to develop the many landforms found on Earth. Topics of study include rocks and minerals, erosion, sedimentation, glaciers, volcanoes, earthquakes, plate tectonics, map reading, and interpreting Earth's history. Local, state, and national sites of geologic significance and current geologic events will be explored.

Prerequisite Courses: Completed Earth Science and Biology with a "C" or better, or instructor approval. Not a replacement course for Earth Science.

Applies toward graduation requirements of: 7 Elective credits

Environmental Science	Credit 1/2 each semester	11, 12
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: Environmental Science is designed to enhance the student's understanding of basic ecological principles and how they relate to the human situation. Students will explore such topics as endangered species, water and air quality, global warming, the greenhouse effect, and population. They will be challenged with field experience, hands-on investigations and research activities. Guest speakers may include professional scientists and local experts. At times the class will meet off campus to do field study. Each semester covers different topics. Students may elect to take one or both semesters.

Prerequisite Courses: This course is designed for students who have earned 2 science credits (Biology and a physical science). **Skyview students**: Semester 1 is a prerequisite to Semester 2.

Applies toward graduation requirements of: 7 Elective credits

Human Anatomy & Physiology	Credit 1	11, 12
Course Name	**Semester 1 and/or 2**	**Grade Level**

Course Description: This course provides a comprehensive introductory level approach to the structure and function of the human body. A lecture/laboratory format is used to study the major systems of the body with an attempt to integrate anatomy and physiology in a way that reinforces the inseparable relationship between structure and function. The course is designed for those students considering careers in allied health fields. Students may elect either or both semesters. Students who are enrolled in Medical Careers or Sports Medicine are encouraged to take this course second semester. Otherwise, it is recommended to take this course both semesters. At times the class will meet off campus to do field study. Dissection labs are an emphasis of second semester.

Prerequisite Courses: Biology 1 and a physical science

Applies toward graduation requirements of: 7 Elective credits

Physics 1	Credit 1	10, 11, 12
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: Physics 1 is a full year laboratory science elective. This course introduces the application of simple mathematics to the concepts of mechanics, thermodynamics, waves, light, sound, and electromagnetism.

Prerequisite Courses: Completed Algebra 2 or currently enrolled in Algebra 2, and must have passed 1 credit of Biology or Physical Science

Applies toward graduation requirements of: 1 Physical Science credit or 7 Elective credits

AP Physics	Credit 1	10, 11, 12
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: AP Physics 1 is an Algebra-based, introductory college-level physics course. Students cultivate their understanding of Physics through inquiry-based investigations as they explore these topics: Kinematics; dynamics; circular motion and gravitation; energy; momentum; simple harmonic motion; torque and rotational motion; electric charge and electric force; DC circuits; and mechanical waves and sounds.

Prerequisite Courses: Geometry and either completion or concurrent enrollment in Algebra 2

Applies toward graduation requirements of: 1 Physical Science credit or 7 Elective Credits

AP Physics 2	Credit 1	11, 12
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: This course is an Algebra-based, introductory college-level physics course. Students cultivate their understanding of physics through inquiry-based investigations as they explore these topics: fluids; thermodynamics; electrical force, field, and potential; electric circuits; magnetism and electromagnetic induction; geometric and physical optics; and quantum, atomic, and nuclear physics. AP Physics 2 is a full-year course that is the equivalent of a second-semester introductory college course in algebra-based physics.

This course requires that twenty-five percent of instructional time will be spent in hands-on laboratory work, with an emphasis on inquiry-based investigations that provide students with opportunities to demonstrate foundational physics principles and apply the science practices.

Prerequisite Courses: AP Physics 1 and should have taken or be concurrently taking pre-calculus.

Applies toward graduation requirements of: 7 Elective credits

Social Studies

SOCIAL STUDIES

Mission

Today's students more than ever before need a comprehensive understanding of the world, and of the many cultures that have developed ideas, institutions, and ways of life. Students can gain an appreciation both of the world's many cultures and their shared humanity and common problems.

Social Studies Course Structure

10th Grade

World History

Advanced Placement World History

11th Grade

United States History

Advanced Placement United States History

United States Lit/United States History Block - Senior only

12th Grade

United States Government

Advanced Placement United States Government

College American Government

Other Social Studies Offerings for 12th Grade

Montana History

Economics

Modern World Issues

Psychology

Sociology/College Sociology

20th Century Genocide (West High Only)

AP Psychology

World History	Credit 1	10
Course Name	Semester 1 & 2	Grade Level

Course Description: Knowledge of major historical events and accomplishments is necessary to understand current national and international affairs. This course stresses the diversity of economic, political, religious, and social systems; it encourages an appreciation for the scientific and artistic contributions of many cultures to the collective wisdom of the human race. The first semester concentrates on ancient civilizations and western medieval history. The second semester emphasizes those events which predominantly shaped the modern world.

Prerequisite Courses: None

Applies toward graduation requirements of: 1 World History credit

Advanced Placement

World History	Credit 1	10
Course Name	Semester 1 & 2	Grade Level

Course Description: Advanced Placement World History is a rigorous study of human interaction from 1200 C.E. to the present. This course will examine the integration of social, political, environmental, cultural and economic factors as we study the development of human societies. The focus of the course is truly global, and will include a balanced approach to Asia, Africa, Oceania, Europe and the Americas. AP World History offers an approach that lets students "do history" by guiding them through the steps a historian would take in analyzing historical events and evidence worldwide. College level reading and writing skills will be developed through critical evaluation of primary and secondary sources. Students will have the opportunity to earn college credit through the Advanced Placement examination process at the end of the school year.

This course will address the following areas of study:

- Development and transformation of social structures
- Development and interaction of cultures
- State-building, expansion and conflict
- Interaction between humans and the environment
- Creation, expansion and interaction of economic systems

Prerequisite Courses: None

Applies toward graduation requirements of: 1 World History credit

United States History	Credit 1	11
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: This course provides students with an overview of the history of the United States by analyzing change and continuity within historical eras. This course includes a historical overview of political, military, scientific, and social developments while students analyze multiple and complex causal factors that have shaped major events in US history. Students will engage within compelling questions to plan inquiries; compare and evaluate sources for relevance, perspective, and accuracy; use sources to gather evidence to develop and refine claims; and communicate their conclusions. Course content will include the unique perspectives of American Indians in US History.

The Historical Eras to be addressed:

- Founding Era to Reconstruction
- Manifest Destiny/Gilded Age
- Progressives and Imperialism
- World War 1/Depression/World War 2
- Early Cold War/Domestic America 1945-60
- Civil Rights/Vietnam War
- Late Cold War/Detente 1960-90
- Watergate to Reagan/Bush Sr. 1973-92
- New Millennium 1990-Current

Prerequisite Courses: None
Applies toward graduation requirements of: 1 United States History credit

Advanced Placement

United States History	Credit 1	11
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: The Advanced Placement program in United States History is designed to provide students with the analytical skills and factual knowledge necessary to deal critically with the problems and materials in United States history. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. Students should learn to assess historical materials-their relevance to a given interpretive problem, their reliability, and their importance- and to weigh the evidence and interpretations presented in historical scholarship. An Advanced Placement United States History course should thus develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in an essay format.

This course will address the following areas of study:

- Indigenous Peoples and Societies of North America
- Colonization and World Settlement in North America
- The Revolution
- The Advent of the United States and the Constitutional Period Era
- Expansion
- The Civil War
- Reconstruction and Industrialization
- The Emergence of Modern America During the World Wars and Interwar Period
- The Rise of America as the Dominant World Power in the Later 20th Century

Prerequisite Courses: None
Applies toward graduation requirements of: 1 United States History credit

United States Literature/ United States History Block-Senior only	Credit 1 English	11
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: The combination of American History and American Literature follows the curriculum and essential requirements currently established and approved in School District Two for 11th Grade English and United States History. This American Studies approach encourages the students to appreciate and understand links between the past and the writers who explored the American experience of writing and discussing, students examine the different genres and periods of the past. Students are required to take both the literature and history portions of the block both semesters.

TWO –HOUR BLOCK

Prerequisite Courses: None
Applies toward graduation requirements of: 1 United States History credit

United States Government	Credit 1/2	12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: The goal of education in government is informed, responsible participation in political life. The study of the United States government will provide students an opportunity to acquire knowledge of government and to practice the skills necessary to become responsible, participatory citizens.
This course will address the following areas of study:

- The U.S. Constitution
- Federalism
- Comparative Government
- Politics and Political Participation
- Political Theory
- The Election Process
- The Courts
- The Executive Branch
- The Legislative Branch
- The Structure of State, Tribal, and Local governments
- Civil Liberties and Rights

Prerequisite Courses: None
Applies toward graduation requirements of: 1/2 United States Government credit & 1/2 Social Studies credit

Advanced Placement United States Government	Credit 1	12
Course Name	**Semester 1 & 2** **Full Year Course**	**Grade Level**

Course Description: Advanced Placement United States Government is an essential study for students desiring success on the A.P. U.S. Government exam. In this college level course, students will enter in an in-depth study of government through readings, writing assignments, and research projects.

This course will address the following areas of study:

- Constitutional underpinnings of the United States Government
- Political Beliefs and Behaviors
- Institutions of National Government: the Congress, the Presidency, the Bureaucracy, and the Federal Courts
- Political Parties, Interest Groups, and Mass Media
- Public Policy
- Civil Rights and Civil Liberties
- The Structure of State, Tribal, and Local Governments

Prerequisite Courses: 1 credit of American History or Advanced Placement American History

Applies toward graduation requirements of: 1/2 United States Government credit **AND** 1/2 Social Studies credit

College American Government	Credits 1/2 3 Credits @ MSU-B	12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: Covers the American Political System relative to central government and institutions. Attention is given to concepts, organizations and functions with emphasis on the political, governmental and democratic processes and problems, including the role of individual and group relationships. Provides a perspective and background for further study in Political Science. Please see individual school's syllabus for additional topics. Students must meet entrance requirements and pay course fees.

City College/MSU-Billings: 3 credits in PSCI 210 Introduction to American Government will be issued to students who pass all competencies.

Prerequisite Course: Qualifying score on the ACT or on the Accuplacer Exam.

Applies toward graduation requirement of: ½ United States Government

Psychology	Credit 1/2	12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: This class will help students understand and describe human thinking, learning, memory, development, personality, and behavior.

This course will address the following areas of study:

- Social and Cultural Dimensions of Behavior
- Sensation and Perception/Motivation and Emotion
- Mental and Emotional Health
- Personality/Memory/State of Consciousness
- Human Growth and Development
- Biological Bases/Research and Methods
- Psychological Disorders and Treatments

Prerequisite Courses: None

Applies toward graduation requirements of: 1/2 Social Studies credit

AP Psychology	Credit 1	12
Course Name	**Semester 1 & 2 (Year Long)**	**Grade Level**

Course Description: Advanced Placement ® Psychology is a one semester collegiate level survey which will introduce students to psychological objectives, content, and methodologies. The goal of this course is to give students a useful understanding of that content, along with evidentiary understandings of treatment, neuropsychological contributions to the field, and psychology as a science. This course will include extensive readings from an AP® recognized college level text along with an assortment of other scholarly readings, most of which are noted in the course syllabus. Students will have the opportunity to earn college credit through the Advanced Placement examination process.

This course will address the following areas of study:

- History and Approaches/Research Methods
- Sensation and Perception
- Biological Basis of Behavior/State of Consciousness
- Cognition and Memory
- Motivation/Emotion/Personality
- Developmental Psychology
- Testing and Individual Differences
- Abnormal Psychology and Treatment
- Social Psychology

Prerequisite Courses: There are no specific prerequisite courses that are required for enrollment in AP® Psychology. Nonetheless, students enrolling in this course should be prepared for challenging readings, assignments, and exams.

Applies toward graduation requirements of: 1/2 Social Studies credit or 7 Elective credits

Montana History	Credit 1/2	12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: The purpose of Montana History is to understand the interplay of cultures; Native American, Asian, Hispanic, and European; in the development of the unique culture in Montana.

This course will address the following areas of study:

- Pre-contact and Montana's Indigenous People
- Exploration and Fur Trade
- Cattle
- Montana in the Late 19th Century
- Homesteading
- Depression and World War II
- Post-World War II and Montana

Prerequisite Courses: None

Applies toward graduation requirements of: 1/2 Social Studies credit

20th Century Genocide -West Only	Credit 1/2	12
Course Name	**Semester 1**	**Grade Level**

Course Description: This class will include 20th century genocide. The Holocaust is a reminder of how a modern nation, with educated citizens, advanced technology, and a sophisticated culture can implement a program that its citizens will follow for racial hatred and mass murder. The events of the American Indians in Montana, the genocide in Turkey, Cambodia, the Balkans, Rwanda, and today in Darfur will be studied also.

Prerequisite Courses: None

Applies toward graduation requirements of: 1/2 Social Studies credit

Economics	Credit 1/2	12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: This course will introduce students to the fundamentals of macro and micro economic principles, the tangible workings of our economic system, and the general functions of the financial sector.

This course will address the following areas of study:

- The Prominent Economic Systems and Comparative Analysis
- Economic Decision Making
- Aggregate Supply and Demand
- Money Multipliers and Consumption
- Business Cycles
- Currency and Trade
- Price Utility and Elasticity
- Industrial Hierarchies
- Marginal Thinking
- Financial Markets and Institutions
- The Federal Reserve System

Prerequisite Courses: None

Applies toward graduation requirements of: 1/2 Social Studies credit

***This course applies to the Financial Literacy Credit for graduation starting with Class of 2027.**

Modern World Issues	Credit 1/2	12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: The study of world issues is essential for students desiring an understanding of relationships among various cultural and ethnic groups throughout the world. Students will study current controversial world issues by investigation history and the current status of various world conflicts and tensions.

This course will address the following areas of study:

- The Middle East
- World Starvation/Poverty
- Terrorism
- International Revolution/Civil and Mixed Conflict
- International Economic Struggles
- Weapons of Mass Destruction/Weapons Proliferation
- Current Political, Social, Economic World Events
- The Role of the United Nations
- Religious Tensions

Prerequisite Courses: None

Applies toward graduation requirements of: 1/2 Social Studies credit

Sociology	Credit 1/2	12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: This class will help students examine human relationships and behaviors. The course will study the causes and consequences of human interaction from the group perspective.

This course will address the following areas of study:

- Sociology as a Social Science
- The Sociological Perspective and Scientific Method
- Society and the Individual
- Group Interactions
- Social Institutions
- Social Problems

Prerequisite Courses: None

Applies toward graduation requirements of: 1/2 Social Studies credit

World Languages

WORLD LANGUAGES

The goals of foreign language study are linguistic and cultural. The overall linguistic objectives for modern foreign languages are:

- **To comprehend the spoken and written language without translation into English**
- **To communicate with others in the language**
- **To write the language in the accepted and current form and style**
- **To listen, read, write, and speak in the target language**

The cultural objectives are:

- **To understand foreign social, political, religious, and economic life**
- **To appreciate and respect foreign traditions, customs, art, and achievements**
- **To comprehend the relationship between two cultures and, by comparison, to learn and to become aware of American values, traditions, social, and political institutions**

Language study can involve adventure and the fun of exploring the unfamiliar. Successful language students tend to have the following characteristics:

- **Ability to stay on task**
- **Ability to pay attention to language structure and reconstruct concepts**
- **Ability to analyze and transfer material**
- **Willingness to memorize, utilize, and recycle assigned vocabulary on an ongoing basis**
- **Willingness to participate orally in class activities**
- **Willingness to accept responsibility for their learning and have a growth mindset**

French 1	Credit 1	9, 10, 11, 12
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: Students in French 1 will begin to communicate in the target language. Students will be learning a variety of everyday terms and the basic elements of communication. In addition to communication, students will develop an understanding of culture, will learn to connect the target language to English, and discover the influence of the language in our community. Students will be required to read, write, speak and listen in the target language on a daily basis. At the end of French 1, students should be able to sustain simple conversations utilizing the new vocabulary they have learned.
Prerequisite Courses: None
Applies toward graduation requirements of: 7 Elective credits

French 2	Credit 1	10, 11, 12
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: Students in French 2 will begin building on the skills they acquired in French 1. Reading, writing, speaking and listening will continue to be emphasized but at a slightly more advanced level. Students will continue to make connections between the target language and culture with our own language and culture. Students will begin working with authentic materials in the target language. They may also learn about current events impacting the countries they are studying.
Prerequisite Courses: French 1
Applies toward graduation requirements of: 7 Elective credits

French 3	Credit 1	11, 12
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: The emphasis will shift from learning the language to learning in the language. The student will demonstrate increased proficiency in communication, understanding of culture, connections, comparisons, and community. Students may work from a variety of sources, texts, novels, newspapers, magazines, poetry, music, short stories and legends. Video will begin to be incorporated more frequently to enhance students' ability to understand a native speaker. More emphasis will be placed on advanced grammatical skills and essay writing. Students will also be encouraged to create original presentations in the target language.
Prerequisite Courses: French 2
Applies toward graduation requirements of: 7 Elective credits

Advanced Placement

French Language & Culture	Credit 1	12
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: Advanced Placement French compares to an advanced-level college French Course. Emphasizing the use of French for active communication, essential requirements include comprehension of formal and informal spoken French, acquisition of vocabulary and sentence structure to facilitate the reading of French literature, composition of expository passages and complex expression of ideas orally. This course is a nationally approved curriculum.

Prerequisite Courses: French III and teacher recommendation
Applies toward graduation requirements of: 7 Elective Credits

German 1	Credit 1	9, 10, 11, 12
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: Students in German 1 will begin to communicate in the target language. Students will be learning a variety of everyday terms and the basic elements of communication. In addition to communication, students will develop an understanding of culture, will learn to connect the target language to English, and discover the influence of the language in our community. Students will be required to read, write, speak and listen in the target language on a daily basis. At the end of German 1, students should be able to sustain simple conversations utilizing the new vocabulary they have learned.

Prerequisite Courses: None
Applies toward graduation requirements of: 7 Elective credits

German 2	Credit 1	10, 11, 12
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: Students in German 2 will begin building on the skills they acquired in German 1. Reading, writing, speaking and listening will continue to be emphasized but at a slightly more advanced level. Students will continue to make connections between the target language and culture with our own language and culture. Students will begin working with authentic materials in the target language. They will also learn about current events impacting the countries they are studying.

Prerequisite Courses: German 1
Applies toward graduation requirements of: 7 Elective credits

German 3	Credit 1	11, 12
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: The emphasis will shift from learning the language to learning in the language. The student will demonstrate increased proficiency in communication, understanding of culture, connections, comparisons, and community. Students will work from a variety of sources, texts, novels, newspapers, magazines, poetry, music, short stories and legends. Video will begin to be incorporated more frequently to enhance students' ability to understand a native speaker. More emphasis will be placed on advanced grammatical skills and essay writing. Students will also be encouraged to create original presentations in the target language.

Prerequisite Courses: German 2
Applies toward graduation requirements of: 7 Elective credits

Advanced Placement

German Language & Culture	Credit 1	12
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: Advanced Placement German compares to an advanced-level college German Course. Emphasizing the use of German for active communication, essential requirements include comprehension of formal and informal spoken German, acquisition of vocabulary and sentence structure to facilitate the reading of German literature, composition of expository passages and complex expression of ideas orally. This course is a nationally approved curriculum.

Prerequisite Courses: German III and teacher recommendation
Applies toward graduation requirements of: 7 Elective Credits

Spanish 1	Credit 1	9, 10, 11, 12
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: Students in Spanish 1 will begin to communicate in the target language. Students will be learning a variety of everyday terms and the basic elements of communication. In addition to communication, students will develop an understanding of culture, will learn to connect the target language to English, and discover the influence of the language in our community. Students will be required to read, write, speak and listen in the target language on a daily basis. At the end of Spanish 1, students should be able to sustain simple conversations utilizing the new vocabulary they have learned.

Prerequisite Courses: None
Applies toward graduation requirements of: 7 Elective credits

Spanish 2	Credit 1	10, 11, 12
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: Students in Spanish 2 will begin building on the skills they acquired in Spanish 1. Reading, writing, speaking and listening will continue to be emphasized but at a slightly more advanced level. Students will continue to make connections between the target language and culture with our own language and culture. Students will begin working with authentic materials in the target language. They may also learn about current events impacting the countries they are studying.

Prerequisite Courses: Spanish 1
Applies toward graduation requirements of: 7 Elective credits

Spanish 3	Credit 1	11, 12
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: The emphasis will shift from learning the language to learning in the language. The student will demonstrate increased proficiency in communication, understanding of culture, connections, comparisons, and community. Students will work from a variety of sources, texts, novels, newspapers, magazines, poetry, music, short stories and/or legends. Video will begin to be incorporated more frequently to enhance students' ability to understand a native speaker. More emphasis will be placed on advanced grammatical skills and essay writing. Students will also be encouraged to create original presentations in the target language.

Prerequisite Courses: Spanish 2
Applies toward graduation requirements of: 7 Elective credits

Advanced Placement

Spanish Language & Culture	Credit 1	12
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: Advanced Placement Spanish compares to an advanced-level college Spanish Course. Emphasizing the use of Spanish for active communication, essential requirements include comprehension of formal and informal spoken Spanish, acquisition of vocabulary and sentence structure to facilitate the reading of Spanish literature, composition of expository passages and complex expression of ideas orally. This course is a nationally approved curriculum.

Prerequisite Courses: Spanish III and teacher recommendation
Applies toward graduation requirements of: 7 Elective Credits

Montana Indigenous Languages Program (Online via MTDA)
½ Credit per Semester Course
Grades, 9, 10, 11, 12
Semester 1 or 2

The Montana Indigenous Languages Program offered through the Montana Digital Academy (MTDA) will provide all Montana Public School students an opportunity to learn the Indigenous Languages of our Montana First Nations. The course offerings through MTDA supports the fulfillment of MT 20-7-1404 Indian Language Immersion Programs, which was the result of the 2021 Montana Legislature. The course offerings and continued research can also be attributed to the federal MOA to use, practice, and develop Native American Languages.

Students can take each language offered once at one per semester. As more languages or additional levels of current languages are offered, students will have the opportunity to enroll pending the final MTDA schedule.

For more information, visit:

http://montanadigitalacademy.org/programs/indigenous-language/

Montana Indigenous Languages Program

Neyio (Cree)	**Credit 1/2**	**9,10, 11, 12**
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: This course focuses on building Neyio (Cree) language skills and related cultural knowledge. Students will also learn basic greetings, introductions, and simple conversational sentences. The successful student in this course has an intrinsic interest in language and culture. They keep an open mind while learning about cultures that may not be their own. Successful language students also have the courage to record themselves pronouncing the language and receiving feedback to improve their skills.

This course is offered through the Montana Digital Academy (MTDA).

Prerequisite Courses: None

Applies toward graduation requirements of: 7 Elective Credits

Montana Indigenous Languages Program

Biiluuke (Crow)	**Credit 1/2**	**9,10, 11, 12**
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: This course focuses on building Bíiluuke (Crow) language skills and related cultural knowledge. Students will learn vocabulary, basic greetings, introductions, and simple conversational sentences. Successful students in this course have an intrinsic interest in language and culture. They keep an open mind while learning about cultures that may not be their own. Successful language students also have the courage to record themselves pronouncing the language and receiving feedback to improve their skills.

This course is offered through the Montana Digital Academy (MTDA).

Prerequisite Courses: None

Applies toward graduation requirements of: 7 Elective Credits

Montana Indigenous Languages Program

Nakoda (Assiniboine)	**Credit 1/2**	**9,10, 11, 12**
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: This course focuses on building Nakoda (Assiniboine) language skills and related cultural knowledge. Students will learn vocabulary, basic greetings, introductions, and simple conversational sentences. Successful students in this course have an intrinsic interest in language and culture. They keep an open mind while learning about cultures that may not be their own. Successful language students also have the courage to record themselves pronouncing the language and receiving feedback to improve their skills.

This course is offered through the Montana Digital Academy (MTDA).

Prerequisite Courses: None

Applies toward graduation requirements of: 7 Elective Credits

Montana Indigenous Languages Program

Dakota (Sioux)	**Credit 1/2**	**9,10, 11, 12**
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: This course focuses on building Dakota (Sioux) language skills and related cultural knowledge. Students will learn vocabulary, basic greetings, introductions, and simple conversational sentences. Successful students in this course have an intrinsic interest in language and culture. They keep an open mind while learning about cultures that may not be their own. Successful language students also have the courage to record themselves pronouncing the language and receiving feedback to improve their skills.

This course is offered through the Montana Digital Academy (MTDA).

Prerequisite Courses: None

Applies toward graduation requirements of: 7 Elective Credits

Visual & Performance Arts

ART EDUCATION

Art Education courses provide the student with an opportunity for creative expression and for understanding and appreciation of the world. In addition, art courses offer the students an introduction to self-evaluation and higher level problem solving skills. The basic art elements (line, shape, and color, etc.) and the basic art principles (balance, emphasis, etc.) will be the structural framework for each of the classes. These classes, if taken for two semesters, will fulfill the visual arts graduation requirement.
Students are expected to buy basic art tools for each course. In addition, those students who undertake projects requiring relatively expensive materials will be expected to pay some of the cost. A list of courses with class prerequisites and lab fees will be provided at each of the three high schools for registration purposes.

Art Course Offerings at Individual Schools

Core Curriculum offered at all High Schools

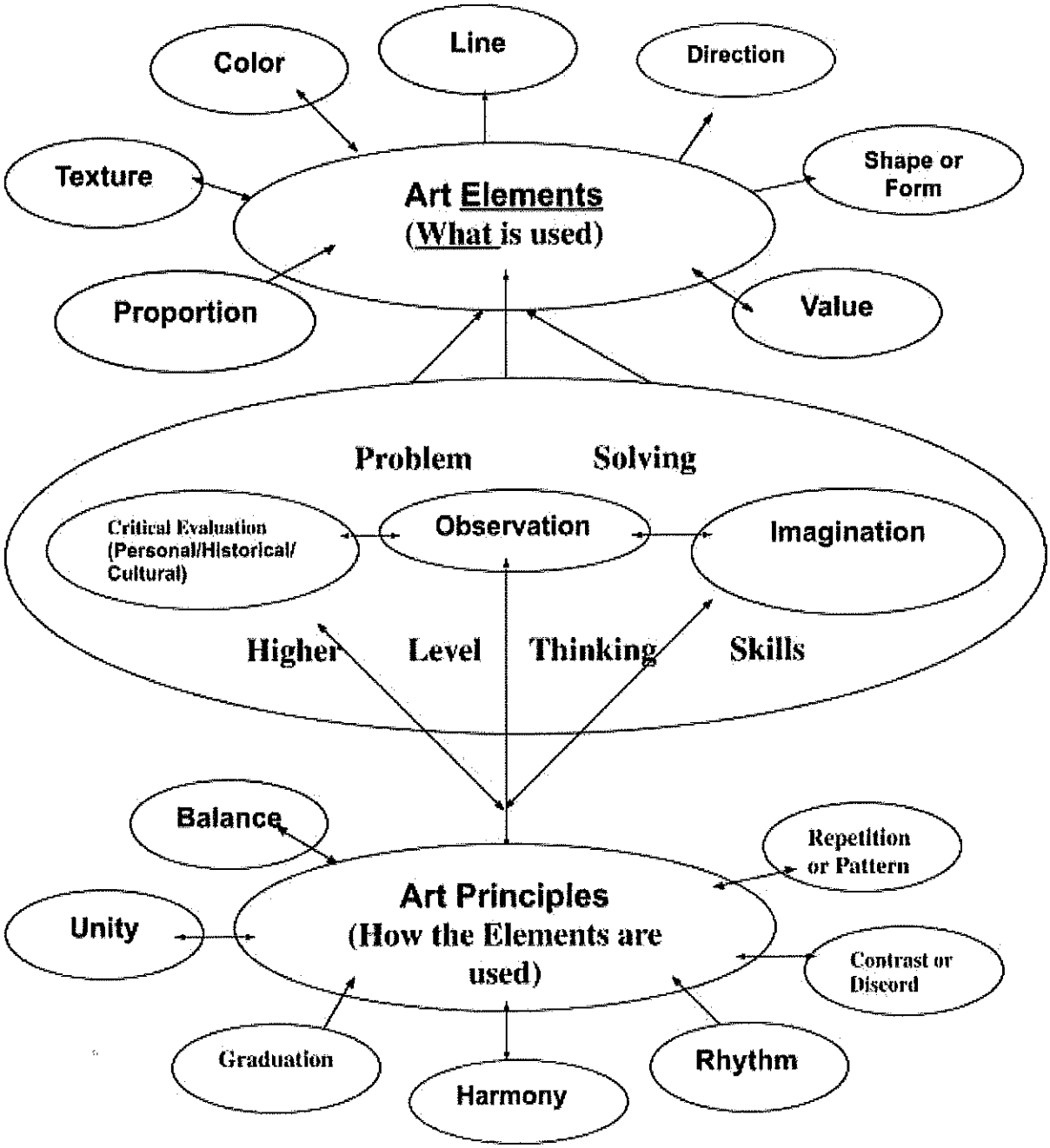
Art 1
Art 2
Ceramics 1
Ceramics 2
Drawing & Design
Sculpture
Advanced Art
Jewelry 1
Painting 1
Painting 2
AP Art and Design
AP Art History

Offerings unique to each school

CAREER CENTER	SENIOR	SKYVIEW	WEST
Graphics Print/ Photography	Photography		Jewelry 2
Design Advertising/Design Layout			
Digital Photo			
Digital Illustration			
Animation Lab 1 & 2			
Exploring Visual Media			
AP 2D Art & Design (Photography)			

Art Department Curriculum Web

Lessons and units relate directly to some aspect of the curriculum web shown below:



The art elements are the components of art, or what an artist uses to create a work. The art principles are how an artist uses the elements to create. While the terminology applying to art elements and principles vary somewhat from artist to artist and book to book, the basic concepts are the same. For example, form is a 3-dimensional variation of shape, discord is a form of contrast, and rhythm is achieved by repeating a pattern of elements.

Art 1	Credit 1/2	9, 10, 11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: Art 1 is a basic exploratory course covering a variety of art activities. Projects are structured to accommodate students with little or no background in art, while also being open-ended to meet the enrichment needs of students with a more extensive background.

This course requires a lab fee for supplies and materials.

Prerequisite Courses: None
Applies toward graduation requirements of: 1 Visual or Performing Arts credit

Art 2	Credit 1/2	9, 10, 11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: Art 2 emphasizes a more advanced utilization of the concepts, media, and techniques learned in Art 1. New 2-D and 3-D media and techniques are also introduced.

This course requires a lab fee for supplies and materials.

Prerequisite Courses: Art 1
Applies toward graduation requirements of: 1 Visual or Performing Arts credit

Ceramics 1	Credit 1/2	10, 11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: Ceramics 1 presents a brief history of ceramics. Students are exposed to hand-built and wheel thrown techniques. They also study decorating, glazing, stacking, and firing of ceramics. In order to understand the complete process, emphasis will be on pottery as a functional as well as sculptural art form using basic elements and principles of design.

This course requires a lab fee for supplies and materials.

Prerequisite Courses: Art 1 (Waived at Senior High for Juniors/Seniors)
Applies toward graduation requirements of: 1 Visual or Performing Arts credit

Ceramics 2	Credit 1/2	10, 11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: Ceramics 2 is a continuation of Ceramics 1. Students will work with hand building and wheel-throwing techniques. Students will actively participate in kiln loading and firing.

This course requires a lab fee for supplies and materials.

Prerequisite Courses: Ceramics 1
Applies toward graduation requirements of: 7 Elective Credits

Jewelry 1	Credit 1/2	10, 11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: Jewelry 1 is an exploration of the fabrication of jewelry through the use of traditional and contemporary materials, tools, and equipment involved in the creation of jewelry. This is accomplished through completing a series of projects that provide a survey of basic jewelry processes, design, and history.

This course requires a lab fee for supplies and materials.

Prerequisite Courses: Art 1 and Art 2 required at Senior & Skyview, Art 1 required at West
Applies toward graduation requirements of: 7 Elective Credits

Jewelry 2 – West only	Credit 1/2	10, 11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: Second semester (advanced) students will be expected to have a working knowledge of the skills and techniques taught at the beginning (Jewelry 1) level. They will be exposed to more advanced metals techniques and design, requiring a higher degree of physical and mental abilities. They will be expected to act as positive role models and to produce projects beyond the capabilities of beginning students.

This course requires a lab fee for supplies and materials.

Prerequisite Courses: Jewelry 1
Applies toward graduation requirements of: 7 Elective Credits

Drawing and Design	Credit 1/2	10, 11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: This course develops advanced techniques in a variety of drawing media. Projects involve problem solving using the elements and principles of design as they relate to nature, real life and the imagination.

This course requires a lab fee for supplies and materials.

Prerequisite Courses: Art 1 and Art 2
Applies toward graduation requirements of: 7 Elective Credits

Sculpture (3-D Design) Senior & Skyview only	Credit 1/2	10, 11, 12
Course Name	**Semester 1**	**Grade Level**

Course Description: Sculpture focuses on the development and production of the 3-dimensional art form. The student will study and explore the history of sculptural art and design strategy using traditional and nontraditional materials.

This course requires a lab fee for supplies and materials.

Prerequisite Courses: Art 1 & 2, or Art 1 and Ceramics
Applies toward graduation requirements of: 7 Elective Credits

Painting 1	Credit 1/2	10, 11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: This course deals primarily with techniques in oils and/or acrylics. Projects include themes related to realism, abstraction, and working with one's imagination.

This course requires a lab fee for supplies and materials.

Prerequisite Courses: Drawing and Design
Applies toward graduation requirements of: 7 Elective Credits

Painting 2	Credit 1/2	10, 11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: This course will expand the beginning painter's understanding of the basic concepts, techniques, and practice of the painting mediums of acrylic, watercolor and oil, students will explore both traditional and non-traditional painting themes and styles through specific projects. The history of painting will be emphasized through critical analysis of paintings, past and present.

This course requires a lab fee for supplies and materials.

Prerequisite Courses: Painting 1
Applies toward graduation requirements of: 7 Elective Credits

Photography - Senior Only	Credit 1/2	11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: The student will study cameras, film, developing and printing film, lighting, composition, special effects, developing and printing.

This course requires a lab fee for supplies and materials.

Prerequisite Courses: Teacher recommendation and administrator's approval.
Applies toward graduation requirements of: 7 Elective Credits

Advanced Art	Credit 1 or 1/2	12
Course Name	**Semester 1 and/or 2**	**Grade Level**

Course Description: This course is designed for the serious 12th grade art student. The emphasis will be on the development of a portfolio which could be used for college acceptance, college scholarships, and job applications. The student will have the choice of working in one or more media such as painting, drawing, ceramics, sculpture etc. and must be able to work independently. This course requires a lab fee for supplies and materials.

This course requires specific supplies and materials.

- **Advanced Art - Ceramic (West & Skyview)**
- **Advanced Art - Jewelry (West & Skyview)**
- **Advanced Art - Photography (Senior)**

Prerequisite Courses: Four semesters of Art (including Drawing & Design), or instructor approval.

Applies toward graduation requirements of: 7 Elective Credits

AP Art & Design	Credit 1	11, 12
Course Name	**Semester 1 & 2 (Year Long)**	**Grade Level**

Course Description: The AP Art and Design program consists of three different AP Portfolio Exams--AP 2-D Art and Design, AP 3-D Art and Design, and AP Drawing--corresponding to college and university foundations courses. Students may choose to submit any or all of the AP Portfolio Exams. Students create a portfolio of work to demonstrate inquiry through art and design and development of materials, processes, and ideas over the course of a year. Portfolios include works of art and design, process documentation, and written information about the work presented. In May, students submit portfolios for evaluation based on specific criteria, which include skillful synthesis of materials, processes, and ideas and sustained investigation through practice, experimentation, and revision, guided by questions. Students may choose to submit any or all of the AP Portfolio Exams.

Prerequisite Course: Prior coursework in Art 1 & 2 and upper-level art electives are highly recommended. Interested students should seek instructor recommendations and/or portfolio evaluation prior to enrollment.

Applies towards graduation requirements of: 7 Elective Credits

AP Art History	Credit 1	11, 12
Course Name	**Semester 1 & 2 (Year Long)**	**Grade Level**

Course Description: The AP Art History course welcomes students into the global art world to engage with its forms and content as they research, discuss, read, and write about art, artists, art making, and responses to and interpretations of art. By investigating specific course content of 250 works of art characterized by diverse artistic traditions from prehistory to the present, the students develop in-depth, holistic understanding of the history of art from a global perspective. Students learn and apply skills of visual, contextual, and comparative analysis to engage with a variety of art forms, developing understanding of individual works, and interconnections across history.

The AP Art History Exam assesses student understanding of the skills and learning objectives outlined in the course framework. The exam is made up of multiple choice questions and six free response questions that are answered through both long essay and short essay formats.

Prerequisite Course: Prior coursework in Art 1 and 2 and upper-level art electives are highly recommended. Interested students should seek instructor recommendations and evaluation prior to enrollment.

Applies towards graduation requirements of: 7 Elective Credits

Note: This course does not count as a social studies elective.

AP 2-D Art and Design (Photography) (Career Center Only)	Credits 1	11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description:
AP 2-D Art and Design in Photography. This course introduces and develops skills that will be used in developing a 2D Art portfolio. It will also provide students with an introduction to visual concepts, basic image capture, and camera functions using digital cameras and studio lighting. Students will learn to shoot, develop, crop and mount their photographs as well as specific professional camera and editing techniques. Students will also have the opportunity to begin exploring the cutting edge field of digital photography, using the latest Adobe software available in the industry. This course consists of lecture, textbook assignments as well as darkroom and studio projects. Field trips to local businesses and location shots enhance the hands-on learning experience.

Essential Requirements:
Students will demonstrate and document the following:

- Pinhole camera construction and usage
- Basic understanding and use of software basics for photographic imaging and digital printing
- Dry mounting and presentation techniques
- Basic camera functions in DSLR
- Students will develop a 2D art portfolio to submit for the AP Portfolio Exams

TWO HOUR BLOCK/SEMESTER CLASS

Preferred: Art 1 or an Art Portfolio

Applies toward graduation requirements of: 1 Visual/Performing Arts

Graphics

Print Photo (Photography)(Career Center Only) Credits 1 **11, 12**

Course Name **Semester 1 or 2** **Grade Level**

Course Description: This course introduces and explores the Graphic Art of Photography. It will also provide students with an introduction to visual concepts, basic image capture, and camera functions using digital cameras. Students will learn to shoot, develop, crop, and mount their photographs as well as specific professional camera and editing techniques. Students will also have the opportunity to begin exploring the cutting edge field of digital photography, using the latest Adobe software available in the industry. This course consists of lecture, textbook assignments as well as darkroom and studio projects. Field trips to local businesses and location shots enhance the hands on learning experience.

Essential Requirements:
Students will demonstrate the following:

- Pinhole camera construction and usage
- Basic understanding and use of software basics for photographic imaging and digital printing
- Dry mounting and presentation techniques
- Basic camera functions in DSLR

In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

Students are assessed a lab fee for materials which must be paid before the third week of class.

TWO – HOUR BLOCK:
Offered a.m. and p.m.

Prerequisite: Preferred Art 1 or an Art Portfolio

Applies toward graduation requirements of: 1 Career Technical Education credit or 1 Visual/Performing Arts

Design Advertising
Design Layout (Career Center Only) | **Credits 1** | **11, 12**

Course Name | **Semester 1 or 2** | **Grade Level**

Course Description: This challenging, hands-on course explores the art-related field of Graphic Design, and includes illustration, advertising design & layout; computer assisted design, and design theory. During the semester, students are exposed both to traditional and cutting edge techniques and procedures, and have the opportunity to learn and create in a productive, supportive environment. Additionally, Design students will hear from a variety of professionals working in all aspects of the industry, and will spend time exploring the wide array of graphics related careers available today. Students successfully completing class will be able to step into and perform capably in a number of entry-level jobs in the graphic design industry.

Essential Requirements:

Students successfully completing this class will:

- Demonstrate a solid understanding of both the theory and application of the principles and elements of design.
- Demonstrate basic knowledge of typography and composition.
- Demonstrate basic art techniques.
- Demonstrate basic knowledge regarding the history of Graphic Design, including knowledge of a variety of well-known designers and artists.
- Demonstrate introductory knowledge of Adobe Illustrator, the industry's leading design software.

In the event of over **enrollment** **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

Students must have a "C" or better to move into Digital Illustration or Graphics/Print Photo from Design Advertising/Design Layout or Instructor/Administrator approval. Students are assessed a lab fee for materials which must be paid before the third week of class.

TWO – HOUR BLOCK:
Offered a.m. and p.m.

Prerequisite: 1 credit of Art (2 art classes) preferred

Applies toward graduation requirements of: 1 Career Technical Education credit or 1 Visual/Performing Arts

Digital Photo (Career Center Only)	Credits 1/2	11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: This course encourages students to further develop the graphic communication and design skills learned in previous classes, and involves practical lessons dealing with image manipulation. Students will enhance their skills in photography, composition, layout & design, and through the use of Adobe Software's industry standard Creative Suite. In this class, there is a major emphasis on not only learning how to use Adobe Photoshop, but also on how to apply that knowledge in building a professional quality portfolio. Occasionally, community design/graphics projects are brought in and completed in-house by the class members.

Students successfully completing this class will be able to step into and perform capably in a number of above entry-level jobs in the Graphic Arts industry.

Essential Requirements:

Students successfully completing this class will:

- Demonstrate knowledge and application of all aspects of Adobe Photoshop/Lightroom through class lessons and self-directed work.
- Demonstrate Photoshop skills through a variety of relevant assignments, including business card and cd cover design, photo retouching, and photo manipulation.

In the event of over enrollment, **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

- ➢ **It is recommended students who successfully complete this class continue in Design and Layout.**
- ➢ **Students are assessed a lab fee for materials, which must be paid before the third week of class.**

ONE – HOUR CLASS
Offered a.m. fall semester and p.m. spring semester

Prerequisite: Recommended first-year Graphics or several art classes

Applies toward graduation requirements of: 1 Career Technical Education credit or 1 Visual/Performing Arts

Digital Illustration (Career Center Only)	Credits 1/2	11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: This course encourages students to further develop the graphic communication and design skills learned in previous classes. Students will enhance their skills in composition, layout and design through the use of Adobe Software's industry standard Creative Suite. In this class, there is major emphasis on not only learning *how* to use Adobe Illustrator, but also how to apply that knowledge in building a professional quality portfolio. Occasionally, community design/graphics projects are brought in and completed in-house by class members. Students successfully completing class will be able to step into and perform capably in a number of entry-level jobs in the graphic design industry.

Essential Requirements:

Students successfully completing this class will:

- Demonstrate a solid understanding of both the theory and application of the principles and elements of design.
- Demonstrate basic knowledge of typography and composition.
- Demonstrate basic art techniques.
- Demonstrate basic knowledge regarding the history of Digital Design, including knowledge of a variety of well-known designers and artists.
- Demonstrate knowledge of Adobe Illustrator, the industry's leading design software, including: tool usage, and intermediate skill.

In the event of over enrollment, **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

- ➢ **It is recommended that students who successfully complete this class and have also completed Graphics/Print Photo continue with Digital Photo.**
- ➢ **Students are assessed a lab fee for materials, which must be paid before the third week of class.**

ONE – HOUR CLASS
Offered p.m. Fall Semester, and a.m. Spring Semester

Prerequisite: Students must earn a "C" or better in Design Advertising/Design Layout

Applies toward graduation requirements of: 1 Career Technical Education credit or 1 Visual/Performing Arts

Animation Lab 1 (Career Center Only)	Credits 1/2	10, 11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: This exciting course introduces students to the world of animation, moving from traditional methods and terminology (including anatomy, basic perspective and flipbooks) to cutting edge techniques using Abode Animate software to create and animate 2 dimensional computer based graphics. There is a strong emphasis placed on drawing, both character and environment.

Other Key Elements:

- Flash animation designed and developed specifically for the web
- Use of emerging technology
- Creation of storyboards and outlines
- Creative thinking with technology

In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

ONE – HOUR CLASS

✓ **Students are assessed a lab fee for materials which must be paid before the third week of class.**

Prerequisite Courses: Recommend: 10th grade must have successful completion of Exploring Visual Media. No prerequisite courses required for 11th and 12th grade students. Art 1 and basic drawing skills (which should include knowledge of anatomy and perspective)

Applies toward graduation requirements of: 1 Career Technical Education credit or 1 Visual/Performing Arts

Animation Lab II (Career Center Only)	Credits 1/2	11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: This course builds on previously learned animation techniques and allows students to take their creativity to the next level in multiple animations. Additionally, students will continue to work on their ability to draw convincing poses, expressions, character designs, thumbnails, and storyboards.

Other Key Elements:

- Advanced techniques in Flash, After Effects, and 3D programs
- Use of emerging technology

In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

✓ **Students are assessed a lab fee for materials which must be paid before the third week of class.**

ONE-HOUR CLASS

Prerequisite Courses: Requires a grade of "C" or higher in Animation Lab 1
Applies toward graduation requirements of: 1 Career Technical Education credit or 1 Visual/Performing Arts

Exploring Visual Media (Career Center Only)	Credit 1/2	10, 11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: Exploring Visual Media opens the pathway to an exciting world of graphics-related technology and career options.

Interested students will engage in an intensive, semester long tour through the fields of visually-related media.

Additionally, students taking **Exploring Visual Media** will have the opportunity to learn about visually related career options in a variety of ways, including field trips, guest speakers, video presentations, and traditional, pen/paper based research.

Students leaving the class will be well-equipped to continue their exploration in any of the Career Center's other graphics based offerings.

Essential Requirements:

- Students will explore the following graphics-linked disciplines:
    - Graphic Design: Students will learn the basics of graphic design, including composition, color theory, typography and the principles of design. Students will create a variety of work based upon the information they learn.
    - Photography: Students will learn the principles of photography and will learn how to build their very own working pinhole cameras. They will develop their own film and print their own pictures before moving on to cutting-edge, digitally based photography.
    - Animation: Students will explore the history of animation, as well as the principles behind it. They will create their own paper-based animations and be briefly introduced to the Adobe's "Animate" software.
    - Web Design: During this brief introduction to the world of web design, students will learn about the principles necessary to designing an effective webpage, and will take a look at "coding" the most effective way of creating web-based content.

In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

ONE - HOUR CLASS

Students are assessed a lab fee for materials which must be paid before the third week of class.

Prerequisite Courses: None

Applies toward graduation requirements of: 1 Career Technical Education credit or 1 Visual/Performing Art

THEATRE

Theatre 1	Credit 1/2	9, 10, 11, 12
Course Name	**Semester 1 and/or 2**	**Grade Level**

Course Description: Theatre 1 is designed to introduce, review, and improve acting techniques. This course encompasses not only acting but theatre history, play writing, stage makeup, costuming, and business management. Several scenes as well as one-act plays are rehearsed and performed.

Prerequisite Courses: None

Applies toward graduation requirements of: 7 Elective Credits

Theatre 2	Credit 1/2	9, 10, 11, 12
Course Name	**Semester 1 and/or 2**	**Grade Level**

Course Description: Theatre 2 is designed for the returning theatre student. In this course the student will learn body and voice communication; mental discipline and creativity; dramatic tradition (such as the study of dramatic form, playwrights and major plays); the performance aspects of theatre including personal growth and awareness of aesthetics; and the exploration of career and leisure possibilities. Theatre production involves several disciplines such as acting, play producing, (business management), and technical theatre (staging, lighting, designing, costuming, etc.). The course includes discrimination of artistic quality, and knowledge of other cultures and dramatic heritage.

Prerequisite Courses: Theatre 1 or instructor approval

Applies toward graduation requirements of: 7 Elective Credits

Acting 1 & 2 (West Only)	Credit 1/2	9, 10, 11, 12
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: A variety of mime, movement, and vocal exercises along with scene work and other theatre exercises will be used to develop the skills needed for character portrayal. Reading, viewing, and analyzing plays will be used to develop the understanding of the discipline required for theatre and to develop an appreciation for theatre as an art. Objectives include demonstrating knowledge and competent performance of theatrical arts concepts and skills.

Prerequisite Courses: None for Acting 1
Completion of Acting 1 to register for Acting 2

Applies toward graduation requirements of: 7 Elective Credits

Technical Theatre (Skyview & West Only)	Credit 1/2	10, 11, 12
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: This course focuses on technical theatre to develop an overall understanding and appreciation of theatre. Emphasis will be placed on costume, scenic, and lighting design in addition to the business side of theatre, studying concepts and skills including: color theory, construction, painting, sewing basics, stage management, marketing, and hanging lights. Members of the class will assist with the technical aspects of BWHS theatre productions presented during the semester during the class in a "work lab" based environment.

Prerequisite Courses: Theatre 1 & 2

Applies toward graduation requirements of: 7 Elective Credits

Musical Theatre (West Only)	Credit 1/2	10, 11, 12
Course Name	**Semester 1 or as offered**	**Grade Level**

Course Description: This course focuses on the art of musical theatre to develop a well-rounded performer. There will be basic dance theory, music theory, literary analysis techniques and health, musical theatre history, and acting. Students may take this course more than one semester.

Prerequisite Courses: Acting 1 & 2 or Theatre 1 & 2

Applies toward graduation requirements of: 7 Elective Credits

MUSIC

Simply stated, music students as a whole enjoy greater college success. One recent study of 7,500 university students revealed that music majors scored the highest reading scores among all majors including English, biology, chemistry, and math. And according to an article in the *Phi Delta Kappan Journal*, 1994, Physician and biologist Lewis Thomas studied the undergraduate majors of medical school applicants, indicating that music majors were most successful in being admitted to medical school. He found that 66% of music majors who applied to medical school were admitted, the highest percentage of any group. By comparison, 44% of biochemistry majors were admitted.

Music is one of the arts which so sharpened our sense of participation in the world that it gave a much greater meaning to life. Anthony Storr says, "Although music is not a belief system, I think that its importance and its appeal also depend upon its being a way of ordering human experience. Music exalts life, enhances life, and gives it meaning. Great music outlives the individual who created it. It is both personal and beyond the personal. For those who love it, it remains as a fixed point of reference in an unpredictable world. Music is a source of reconciliation, exhilaration, and hope which never fails." -----from the University of North Carolina, Wilmington

Music benefits the student because it cultivates the whole person, gradually building many kinds of literacy while developing intuition, reasoning, imagination, and dexterity into unique forms of expression and communication. This process requires not merely an active mind but a trained one. It introduces students to a variety of ways of perceiving and thinking.

The High School Music Department provides opportunities for all students to participate because the variety of classes offered is structured to accommodate individual interests and ability levels. Although auditions are required for participation in the more advanced ensembles, each discipline makes allowances for open enrollment in other classes. Participation in the "curricular" music classes also affords the student with opportunity to take advantage of a variety of extra-curricular musical activities.

Music courses, if taken for two semesters will fulfill the visual and performing arts graduation requirement.

Chamber Band	Credit 1	9
Course Name	**Semester 1 and 2**	**Grade Level**

Course Description: This class is intended for freshman students who have successfully participated in 7th and 8th grade band class, playing woodwind and brass instruments. Percussion students should enroll in PERCUSSION ENSEMBLE. Emphasis is placed on the fundamentals of music and instrumental technique. A wide variety of musical literature will be explored. A part of the course content includes required public performances of prepared literature.

Prerequisite Courses: At least 2 years (or equivalent) of successful band experience AND/OR Instructor approval.
Applies toward graduation requirements of: 1 Visual or Performing Arts credit

Concert Band	Credit 1	10, 11, 12
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: This is a mid-level ensemble. The students receive more advanced instruction in music fundamentals, instrumental technique and the interpretation of various styles of band literature. A part of the course content includes required public performances.

Prerequisite Courses: At least 2 years (or equivalent) of successful band experience AND/OR Instructor approval.
Applies toward graduation requirements of: 1 Visual or Performing Arts credit

Symphonic Band	Credit 1	9, 10, 11, 12
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: This group is a balanced ensemble designed to facilitate student achievement to the highest possible standards of excellence. The course explores band literature of many eras. Various musical idioms are studied through analysis and rehearsal. A part of the course content includes required public performances.

Prerequisite Courses: By AUDITION ONLY---Auditions to be held in the spring for the following school year.
Applies toward graduation requirements of: 1 Visual or Performing Arts credit

Percussion Ensemble	Credit 1/2	9, 10, 11, 12
Course Name	**Semester 1**	**Grade Level**

Course Description: All percussionists (grades 9-12) are placed in percussion ensemble for the first semester of the school year. The course will focus on percussion techniques on both melodic and non-melodic instruments in the band and orchestra ensembles. The class will perform as a group on concerts during the fall semester. At the end of the first semester, students will be assigned to a band class for the second semester through an audition process. **Equipment needed for this class** includes snare sticks, bell mallets, yarn mallets, and timpani mallets. Students should have a basic understanding of snare drum rudiments and be able to demonstrate basic music reading skills.

Prerequisite Courses: At least 2 years (or equivalent) of successful band experience AND/OR Instructor approval.
Applies toward graduation requirements of: 1 Visual or Performing Arts credit

Music Theory – Skyview & West	Credit 1/2	10, 11, 12
Course Name	**Semester 2**	**Grade Level**

Course Description: This course is recommended for students planning on taking Music Theory in college. Music Theory is a second semester course open to all students (grades 10-12).
The fundamentals of musicianship are examined through visual and aural analysis. Principles of music notation, harmony and composition are explored, as well as harmonic and melodic dictation. Previous experience in music classes is preferred, but not required. ***Only offered on odd-numbered years at West.**

Prerequisite: None
Applies toward graduation requirements of: 1 Visual or Performing Arts credit

String Orchestra - Senior	Credit 1	9, 10, 11, 12
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: This class is an entry-level orchestra course. The course is oriented toward the less experienced player. Emphasis is placed on the fundamentals of music and instrumental technique. This class would be an excellent opportunity for an established musician to switch to a different instrument, or to pick up an instrument that has not been played recently. A wide variety of musical literature will be explored. A part of the course content includes public performances.

Prerequisite Courses: At least 2 years (or equivalent) of successful orchestra experience AND/OR Instructor approval.
Applies toward graduation requirements of: 1 Visual or Performing Arts credit

Chamber Orchestra	Credit 1	9, 10, 11, 12
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: This class is an intermediate-level orchestra course. The course is oriented toward the average experienced player. Emphasis is placed on the fundamentals of music and instrumental technique. A wide variety of musical literature will be explored. A part of the course content includes public performances.

Prerequisite Courses: Audition and Instructor Approval
Applies toward graduation requirements of: 1 Visual or Performing Arts credit

Philharmonic Orchestra	Credit 1	9, 10, 11, 12
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: This group is a balanced ensemble designed to facilitate student achievement to the highest possible standards of excellence. The course explores orchestra literature of many eras. Various musical idioms are studied through analysis and rehearsal. Full orchestra (including wind players) necessitates some rehearsals outside of the regularly scheduled class times. A part of the course content includes required public performances.

Prerequisite Courses: Audition and instructor approval
Applies toward graduation requirements of: 1 Visual or Performing Arts credit

Cantus (Tenor/Bass)	**Credit 1**	**9, 10, 11, 12**
Chanterelles (Alto/Soprano)	**Credit 1**	**9, 10, 11, 12**
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: This is an ensemble for beginning or developing singers. Emphasis is placed on the fundamentals of music and vocal technique. A wide variety of musical literature will be explored. A part of the course content includes required public performances.

Prerequisite Courses: None
Applies toward graduation requirements of: 1 Visual or Performing Arts credit

Concert Choir (Mixed Choir)	**Credit 1**	**9, 10, 11, 12**
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: This group is a balanced choir of intermediate to advanced singers. The students receive instruction in music fundamentals, vocal technique and the interpretation of various styles of choral literature. A part of the course content includes required public performances.

Prerequisite Courses: BY AUDITION ONLY---Auditions to be held in the spring for the following school year.
Applies toward graduation requirements of: 1 Visual or Performing Arts credit

Chamber Choir (Treble Choir)	**Credit 1**	**9, 10, 11, 12**
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: This group is a balanced choir of intermediate to advanced female singers. The group explores great literature for women's voices of all styles and periods in history. A part of the course content includes required public performances.

Prerequisite Courses: BY AUDITION ONLY---Auditions to be held in the spring for the following school year.
Applies toward graduation requirements of: 1 Visual or Performing Arts credit

Varsity Choir - Senior	**Credit 1**	**9, 10, 11, 12**
Chorale - Skyview	**Credit 1**	**9,10, 11, 12**
Meistersingers Choir - West	**Credit 1**	**9, 10, 11, 12**
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: This group is a balanced (SATB) ensemble designed to facilitate student achievement to the highest possible standards of excellence. The course explores choral literature of many eras. Various musical idioms are studied through analysis and rehearsal. A part of the course content includes required public performances.

Prerequisite Courses: BY AUDITION ONLY---Auditions to be held in the spring for the following school year.
Applies toward graduation requirements of: 1 Visual or Performing Arts credit

Music Improvisation – Senior & West	Credit 1/2	10, 11, 12
Course Name	**Semester 2**	**Grade Level**

Course Description: Music Improvisation is a second semester course. This class will explore many musical styles, with emphasis on musical improvisation. Class work will include fundamentals of improvisation, music theory, ear training, and practice methods. Creativity and experimentation within your musical genre will be encouraged. Final projects may include public performances, solo transcriptions, and student compositions. **This class is offered every year at Senior; it is only offered on even-numbered years at West.**

Prerequisite Courses: Students are enrolled in band, choir or orchestra, or by Instructor approval. Students should know all 12 major scales.

Students should be proficient readers of music.
Applies toward graduation requirements of: 1/2 Visual or Performing Arts credit

Career & Technical Education

BUSINESS EDUCATION

Whether you decide to start your own business, work for a small, family-run company, or sign on with a large international corporation, your future will depend on your marketable skills. Business education offers you a better insight to what real business operations entail. Coursework is relevant to real life as you enter the workforce and/or continue post-secondary education beyond high school.

Business students also have the opportunity to put these skills to the test in Business Professionals of America. Participate in competitive events, develop leadership skills, and open doors to your future. Skills learned in business classes help you earn awards in BPA that can be highlighted on college applications and resumes.

Computer Applications	Credit 1/2	9, 10, 11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: "I am so glad I took this class." "I am now prepared to type an MLA report in my English class and design a spreadsheet and chart for my science teacher." Computer Applications will help you build a marketable skill for the business world. Students will be introduced to spreadsheets and charts using Excel, desktop publishing using Publisher, and document formatting and word processing using Word. You will be better prepared for your high school courses, college, and life. ***Don't wait to take this course!*** You will use these skills and many more throughout your high school years and beyond.

Prerequisite Course: none

Applies toward Graduation Requirements of: 1 Career Technical Education Credit

Advanced Computer Applications-Senior & Skyview only	Credit 1/2	12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: Do you want to be even more prepared for college and the workforce? Learn the tricks and tools in the Microsoft Office Suite. Advanced Computer Applications emphasizes further competency in word processing, spreadsheet, and presentation activities using Word, Excel, and PowerPoint. Access database and web design activities are also introduced in this class. Learn how to automatically generate bibliographies in an MLA report, design flyers, manage and query a database and create amazing spreadsheets and charts. By using the complete Microsoft Office integrated software package students have the opportunity for more project-based applications. Course work is relevant to real life as students enter the workforce and/or continue education beyond high school.

Prerequisite Course: Computer Applications

Applies toward Graduation Requirements of: 1 Career Technical Education Credit

Personal Finance	Credit 1/2	9, 10, 11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: Where does all the money go? How can you achieve your financial goals? Do you know how to manage a bank account? Will you run out of money before your bills are paid? Why does car insurance cost so much? Why do some pay less when they buy a car exactly like yours? How does the stock market work? Why is good credit so important? Should you sign a lease when you rent? Learn the answers to these questions and more! Through a fun and active curriculum students can begin to make sound financial decisions that will last for a lifetime!

Prerequisite Course: none (Computer Applications recommended.)

Applies toward Graduation Requirements of: 1 Career Technical Education Credit

***This course applies to the Financial Literacy Credit for graduation starting with Class of 2027.**

Accounting 1	Credit 1/2	10, 11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: Do you want to own your business? (i.e. salon, dental practice, art studio, construction company, automotive shop, etc.) Do you want to major in business in college? Do you want to help maximize profits for a professional sports team or run a Fortune 500 company? Do you want to run the show for movie studios and track down criminals for the FBI? Banish the notion that CPAs are just here to count the money. Today's Certified Public Accountants have responsibilities that encompass far more than payroll and taxes. CPAs are taking care of business in every industry and there's no sign of a slowdown.

Prerequisite Course: none

Applies toward Graduation Requirements of: 1 Career Technical Education Credit

Accounting 2	Credit 1/2	10, 11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: Automated accounting skills will continue to be developed through the use of the computer. Students will complete end-of-year activities and a business simulation for a corporation and develop an overall picture of the total process of business systems.

Prerequisite Course: Accounting 1

Applies toward Graduation Requirements of: 1 Career Technical Education Credit

Accounting 3 - Senior & Skyview only	Credit 1/2	11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: Computerized accounting (QuickBooks) is the main focus. Students will use the computer for payroll, general ledger, accounts receivable and accounts payable. Students will develop a better understanding of the accounting career ladder and how it relates to their individual goals.

Prerequisite Course: Accounting 2

Applies toward Graduation Requirements of: 1 Career Technical Education Credit

Accounting 4 - Senior & Skyview only	Credit 1/2	11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: Departmentalized accounting including financial and cost accounting methods are emphasized.

Prerequisite Course: Accounting 3

Applies toward Graduation Requirements of: 1 Career Technical Education Credit

College Accounting - West only	Credit 1 3 Credits @ MSU-B	11, 12
Course Name	**Semester 1 & 2 (Full Year Course)**	**Grade Level**

Course Description: College Accounting uses an integrated approach to teach accounting. Students first learn how businesses plan for and evaluate their operating, financing, and investing decisions and then how accounting systems gather and provide data to internal and external decision makers. This yearlong course covers all the learning objectives of a traditional college level financial accounting course, plus those from a managerial accounting course. Topics include an introduction to accounting, accounting information systems, time value of money, and accounting for merchandising firms, sales, and receivables, fixed assets, debt and equity. Other topics include statement of cash flows, financial ratios, cost-volume profit analysis and variance analysis.

Prerequisite Course: Successful completion of Account I and II, or instructor approval.

Applies toward graduation requirements of: 1 Career Technical Education Credit
Dual Credit through MSU-Billings
ACTG201 Financial Accounting - 3 Credits

Marketing	Credit 1/2	10, 11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: You're about to begin an exciting journey toward learning about marketing. Marketing is all around you. You see the results of marketing in the abundance of products in your nearby shopping mall. You see marketing in the advertisements that fill your television screen, magazines, and mailbox. At home, at school, where you work, where you play—you are exposed to marketing. Yet, there is more to marketing than meets the consumer's casual eye. Next stop? A more complete and formal introduction to the basic concepts and practices of marketing.

Prerequisite Course: Computer Applications. (Advanced Computer Applications, Desktop Publishing, or Accounting 1 is ***strongly*** recommended.)

Applies toward Graduation Requirements of: 1 Career Technical Education Credit

Managerial Science	Credit 1/2	11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: Managers assist teachers and students in the business labs with presentations, organizing, and peer tutoring. Entry-level management, supervision, and performance reviews are also emphasized. Interested students must have taken other business courses, apply to the instructors, and be accepted for this position.

Prerequisite Courses: Teacher approval

Applies toward Graduation Requirements of: 1 Career Technical Education Credit

College Intro to Business – West & Senior Only	Credit 1/2 3 College Credits at MSU-B	11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: Interested in pursuing a career in business? Introduction to Business is a basic business course designed to acquaint students with the activities associated with a business. Students will gather a basic understanding of general business, economics, entrepreneurship, human resources, business ethics, the government's role in business, marketing, and business finance. Overall, the course gives students a broad exposure to business operations and a solid background for additional business courses.

Prerequisite Course: none

Applies toward Graduation Requirements of: 1 Career Technical Education Credit
Dual Credit through MSU-B/City College
BGEN105 Introduction to Business (3 credits)

College Advanced Computer Applications	Credit 1/2	9, 10, 11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: College Advanced Computer Applications emphasizes further competency and industry standards using Microsoft Office. Access database and web design activities are also introduced in this class. Learn how to create useful spreadsheet formulas and charts, automatically generate bibliographies in an MLA report, manage and query a database, and design publications. By using the complete Microsoft Office integrated software package students have the opportunity for more project-based applications. Course work is relevant to real life as students enter the workforce and/or continue education beyond high school.

Prerequisite Course: Computer Applications

Applies toward Graduation Requirements of: 1 Career Technical Education credit

Dual Credit through ***Montana State University Billings/City College:***
CAPP 120 Introduction to Computers and Applications (3 credits)

Business in The 406-Skyview & Senior only	Credit 1/2	10, 11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: Learn how to develop and run a real enterprise with a fun, project-based approach. This course celebrates the spirit of enterprise and helps turn today's youth into tomorrow's future leaders. Students will begin to believe in themselves and what they can accomplish by experiencing entrepreneurial and economic principles.

This course explores the basics of being a successful business owner. Topics addressed will include: defining entrepreneurship and identifying various forms of business ownership; exploring the legal environment of business and concepts of management and human resources; determining financial needs and sources of funding for your business; and preparing a business plan that helps to analyze risk and financial responsibilities.

Prerequisite Course: Computer Applications recommended

Applies toward Graduation Requirements of: 1 Career Technical Education Credit

Business Law-West and Senior only	Credit 1/2	11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: Interested in the legal environment and how it relates to business? Business Law will study true situations that show you how business and personal law impacts not only business but your life as well. This introductory learning course will help you achieve an understanding of legal principles that you will use throughout your life and how business law impacts your life on a daily basis. The projects for this class will focus on extended coverage of how to analyze legal situations, how to read case citations, how to analyze ethical situations, and legal advice. Additional focus will be on the ever emerging global economy with regards to business law and the impact it has on the 21st Century. This is a fast paced course which will challenge students by combining business law and ethics.

Prerequisite Course: Computer Applications recommended

Applies toward Graduation Requirements of: 1 Career Technical Education Credit

FAMILY and CONSUMER SCIENCES

Be prepared for your future by taking advantage of the many courses offered through the Family and Consumer Sciences Department (FCS). These programs enable students to acquire broad, transferable skills for employment and personal life as well as job-specific skills in careers related to early childhood development, education, social and human services, culinary arts, foods and nutrition, food production and management, hospitality and tourism, apparel and interior design, and entrepreneurship. Students can take multiple courses along the various Career Pathways that lead to Industry Recognized Certificates (IRCs) and advanced opportunities for Dual Credits and/or Workplace Credits (Internships/Apprenticeships).

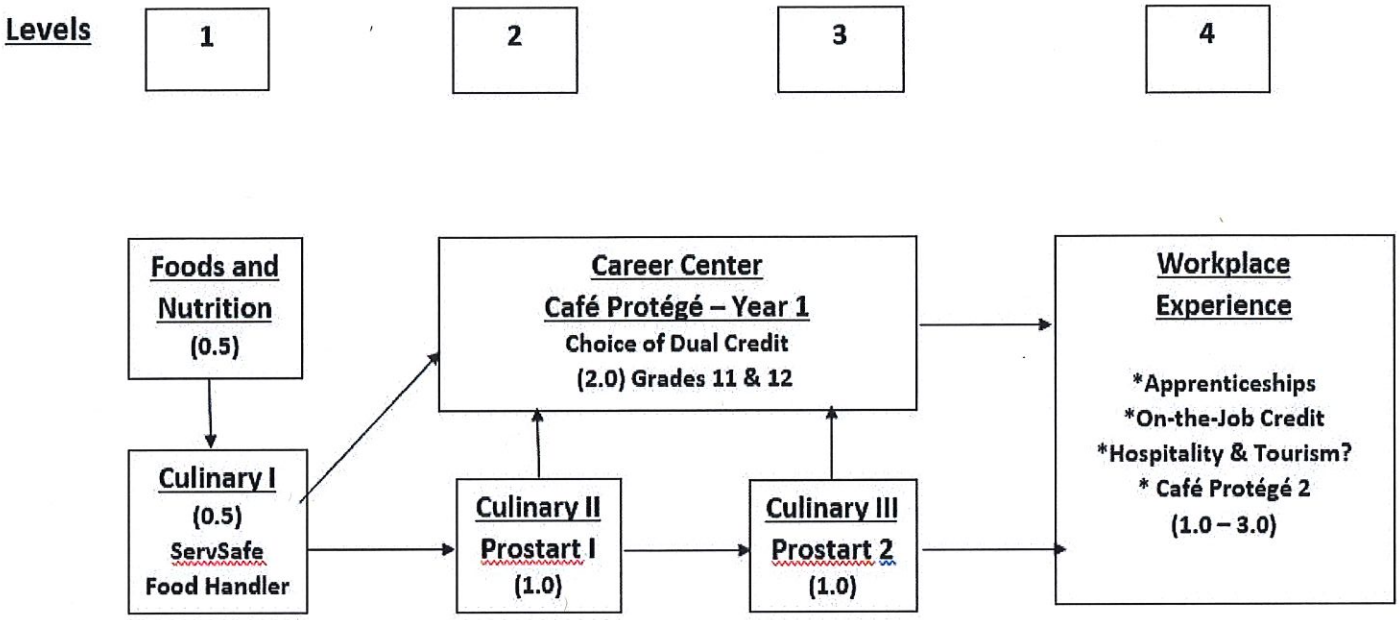
Aligned to the Billings Public School's vision that Career and Technical Education is for EVERY student, the FCS Curriculum aims to provide opportunities for both exploratory experiences and clearly identified pathways to career readiness. To that goal, the FCS curriculum offers three career clusters that articulate to the workplace and/or secondary programs.

- **Culinary Arts**
- **Interior Design**
- **Education/Human Services**

These pathways include opportunities for students to earn Industry Recognized Credentials (IRCs), complete Dual Credit coursework, and to engage in Workplace Experiences within the community.

The following pathways and the included courses align to state and national standards. For a complete list of the knowledge, skills, and learner outcomes from each course, please visit the Billings Public Schools Curriculum Website.

FAMILY AND CONSUMER SCIENCES: CULINARY PATHWAY



Foods and Nutrition	Credit ½	9, 10, 11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: This course is designed to teach students how to build a lifetime of good nutrition and wellness practices while utilizing food preparation and cooking skills. Students are given the essential tools to understand why and how people need to make more practical and healthy choices in their diet and daily routines. They will work cooperatively in lab groups applying what they have learned in each focus topic. While this course provides personal enrichment, it also serves as a foundation for further training in health and culinary related fields.

Fees Charged – Lab fee will be assigned by school

Prerequisite Courses: None. Prerequisite for all other Culinary Classes except Adulting 101.

Applies toward graduation requirements of: 1 Career Technical Education credit

Culinary Arts 1	Credit 1/2	9, 10, 11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: This course is designed to teach students basic food preparation skills utilizing various types of culinary equipment and a range of preparation and cooking techniques. The following areas of study are covered in this course: measuring, knife skills, cooking methods, nutrition, fruits, vegetables, breads, pastas, vegetarian and vegan dishes, desserts, pastries, and meats. While this course provides personal enrichment, it also serves as a foundation for Culinary Arts II.

Fees Charged – Lab fee will be assigned by school

Potential Industry Recognized Credential - ServSafe Food Handler

Prerequisite Courses: Foods & Nutrition

Applies toward graduation requirements of: 1 Career Technical Education credit

Culinary Arts 2	Credit 1	10, 11, 12
Course Name	**Semester 1 & 2 (Full Year Course)**	**Grade Level**

Course Description: This course is designed to teach students about the restaurant industry through the Culinary Arts 2 program. From culinary techniques to management skills, Culinary Arts 2 industry-driven curriculum provides real-life experience opportunities and builds practical skills and a foundation that will last a lifetime. By bringing together the industry and the classroom, Culinary Arts 2 gives students a platform to discover new interests and talents to open doors for fulfilling careers. It happens through a curriculum that includes all facets of the industry and sets a high standard of excellence for students and the industry.

Fees Charged – Lab fee will be assigned by school.

Potential Industry Recognized Credential - Prostart 1

Prerequisite Courses: Foods & Nutrition and Culinary Arts 1.

Applies toward graduation requirement of: 1 Career Technical Education credit

Culinary Arts 3	Credit 1	11, 12
Course Name	**Semester 1 & 2 (Full Year Course)**	**Grade Level**

Course Description: This course is an extension for students who have completed prior Culinary Arts programs. Advanced application towards real-life experience opportunities and building practical skills by bringing together the industry and the classroom, Culinary Arts 3 gives students a platform to discover new interests and talents for fulfilling careers in Hospitality and Tourism.

Fees Charged -- Lab fee will be assigned by school.

Potential Industry Recognized Credential - Prostart 2

Prerequisite Courses: Culinary Arts 2.

Applies toward graduation requirement of: 1 Career Technical Education credit

Cafe Protege/
(Culinary Arts For Industry)(Career Center) **Credits 2 (1 credit per semester)** **11, 12**

Course Name **Semester 1 & 2 (Full Year Course)** **Grade Level**

Course Description: The course introduces students to commercial foodservice concepts not found in more traditional F.A.C.S programs. Classes are held off campus at City College-Montana State University Billings in a full commercial kitchen setting.

This course is an introduction to the restaurant and foodservice industry. Students will be exposed to a variety of cooking skills and techniques, language, equipment, and basic operations critical for success in the culinary arts and foodservice industry. In addition to the fun and excitement of Culinary Arts the following topics are covered as essential requirements.

Fees Charged: Each semester a lab fee is required. Chef coats and headgear will be provided.

Essential Requirements:

- Food and Workplace Safety
- Knife Skills: Beginner through Advanced
- Stocks, Sauces, and Soups
- Cooking Methods and Techniques
- Baking Principles and Fundamentals of Bakeshop Production including: Breads, Pies, Cakes, Pastries, and Cookies
- Food Cultures and Styles from Around the U.S. and the World
- Customer Service, Work Place Communication, Food Costing and Controls, Menu Planning and Marketing
- Catering Fundamentals and Buffet Service Basics

Students are urged and assisted to seek employment in local food service establishments in such roles as paid internships, job shadow and work study programs.

Students can receive dual credit (both high school graduation credit and college credit) at most major culinary schools.

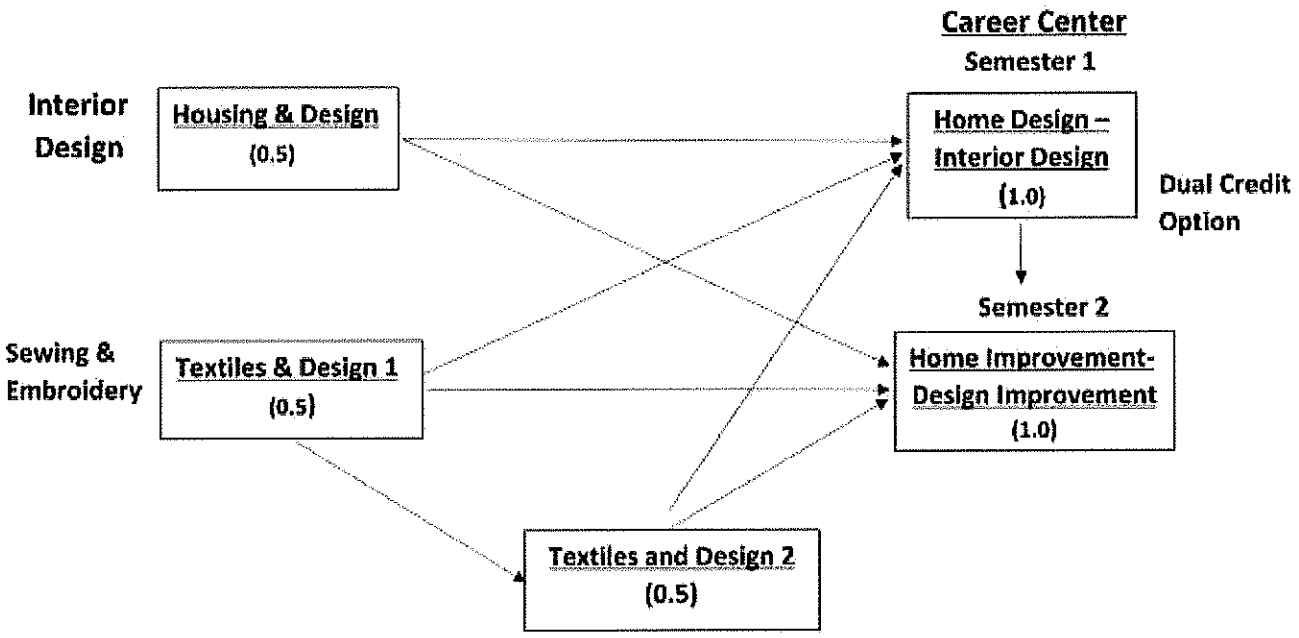
In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

TWO – HOUR BLOCK / YEAR LONG CLASS

Prerequisite Courses: Priority is given to students with prior culinary coursework.

Applies toward graduation requirements of: 1 Career Technical Education credit

FAMILY AND CONSUMER SCIENCES: INTERIOR DESIGN PATHWAY



Textiles & Design 1	Credit ½	9, 10, 11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: This course is for students interested in sewing for practical purposes, personal enjoyment, and/or to develop skills to be used in careers related to clothing construction, fashion merchandising, design, and retail. Students will complete three or more individual projects in creative sewing. Garment construction projects will increase in difficulty as students attain skills. Technical abilities will be enhanced through the use of sewing and embroidery machines, sergers, and other technologies. Sequencing of the course includes basic sewing machine techniques, fabric and pattern selection, interpreting pattern instructions, construction techniques (darts, zippers, hems, buttons, applying interfacing, etc.) and embroidery.

Fees Charged – Lab fee will be assigned by school

Prerequisite Courses: None

Applies toward graduation requirements of: 1 Career Technical Education credit

Textiles & Design 2	Credit 1/2	9, 10, 11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: This course focuses on advanced construction techniques on individually selected projects approved by the instructor. Students master the use of computerized embroidery machine and serger. Areas of study may include textile arts, formal wear, pattern redesigning, fashion design, or other related areas of student interest.

Fees Charged – Lab fee will be assigned by school

Prerequisite Courses: Textiles and Design 1

Applies toward graduation requirements of: 1 Career Technical Education credit

Housing & Design	Credit 1/2	9,10, 11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: This course focuses on practical introduction to space planning, room design, and presentation. This class teaches students how to apply the elements and principles of design to personal interior design problems. Critical thinking and problem solving are integral part of the projects completed in this course. Students will complete a notebook/portfolio of designated projects. Projects may include, but are not limited to, design elements and principles, notebooks, color boards, room floor plans, and design.

Fees Charged – Lab fee will be assigned by school

Prerequisite Courses: None.

Applies toward graduation requirements of: 1 Career Technical Education credit

Home Design

Interior Design - Career Center	**Credit 1**	**11, 12**
Course Name	**Semester 1**	**Grade Level**

Course Description: This course provides skills with both a computer and hands-on approach to learning. Students complete comprehensive assignments where they apply all of the skills and knowledge obtained throughout the course. They work with community vendors to select: paint, flooring, lighting, tile, appliances, fixtures, and wallpaper for a student built house. They also learn the basics in AutoCad and Sketchup. This course is designed to teach the skills needed to be a professional in the design industry and meets the needs of students who desire to receive dual credit for a post secondary education.

Essential Requirements:

- Identify factors and characteristics that impact the interiors of a space by applying the elements and principles of design.
- Interpret written and verbal directions for drawing/modeling an interior design project.
- Demonstrate communication skills that promote positive relationships in the workplace by working in cooperative groups to implement a design plan for the Career Center student built house.
- Communicate design ideas through visual and oral presentations.
- Describe careers in the interior design industry by classifying careers that range from entry level to professional.

In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

TWO - HOUR BLOCK
1st SEMESTER ONLY

Prerequisite Courses: Priority will be given to students with prior related coursework.

Applies toward graduation requirements of: 1 Career Technical Education credit

Home Improvement

Design Improvement - Career Center	**Credit 1**	**11, 12**
Course Name	**Semester 2**	**Grade Level**

Course Description: This course provides students with the essential skills and knowledge needed to make basic home improvements through a hands on approach to learning. Students will learn spatial layout and the staging process of the student built home. They will learn how to select product/material, provide an explanation of why selected, and model how to implement their selection in the work room or on site. Highlights include: tape/texture of walls, painting, wallpaper installation, tile installation, mural design, etc. Students will learn from: professional presenters, field trips to industry related companies, and working/practicing on site at the Career Center house. This class will teach basic skills necessary to maintain and enhance a home.

Essential Requirements:

- Calculate quantities, measure, order and install product.
- Student will develop skills needed to complete interior projects on site or in the workroom.
- Will learn how to understand and stay within a budget.
- Student will communicate design ideas through visual and oral presentations to professionals and peers.
- This class will analyze career options available in the home improvement industry.

In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

TWO - HOUR BLOCK
2nd SECOND SEMESTER ONLY

Prerequisite Courses: Priority will be given to students with prior related coursework.

Applies toward graduation requirements of: 1 Career Technical Education credit

College Introduction to Interior Design - Career Center	Credit 1 3 Credits at Gallatin College	11, 12
Course Name	**Semester 1 & 2 (Full Year Course)**	**Grade Level**

Course Description: This class is designed to provide dual credit with Gallatin College. Students successfully completing Interior/Home Design and Home/Design Improvement will receive college credit for IDSN101 Intro to Interior Design at Gallatin College in Bozeman. The objective of this course is to provide a successful transition from high school to post-secondary education.

Essential Requirements:

- Demonstrate an understanding of the development of architecture and interior design as professions including technical and regulatory elements, historical, current and future directions by successfully completing exams and/or projects
- Demonstrate the ability to distinguish and apply the terminology utilized in the fields of architecture and interior design
- Demonstrate an understanding and appreciation of the basic principles of architecture and interior design including space planning through the study of the design process, design principles and elements, human perception, building materials, furniture selection, textiles, lighting, color, accessories, human factors and business considerations
- Demonstrate an understanding of the elements and principles of design by successfully creating an elements and principles project
- Demonstrate an understanding of a design concept. An example of this is to create a successful concept board.
- Demonstrate an understanding of the diversity of needs and human factors in planning space with a presentation of their project. Their project and presentation will be done with proficiency.
- Demonstrate an understanding of the fundamentals of environmental design by showing a proficient understanding through project/question based evaluation.

In the event of over enrollment, first criteria for consideration shall be current daily attendance. Attendance is required and documented.

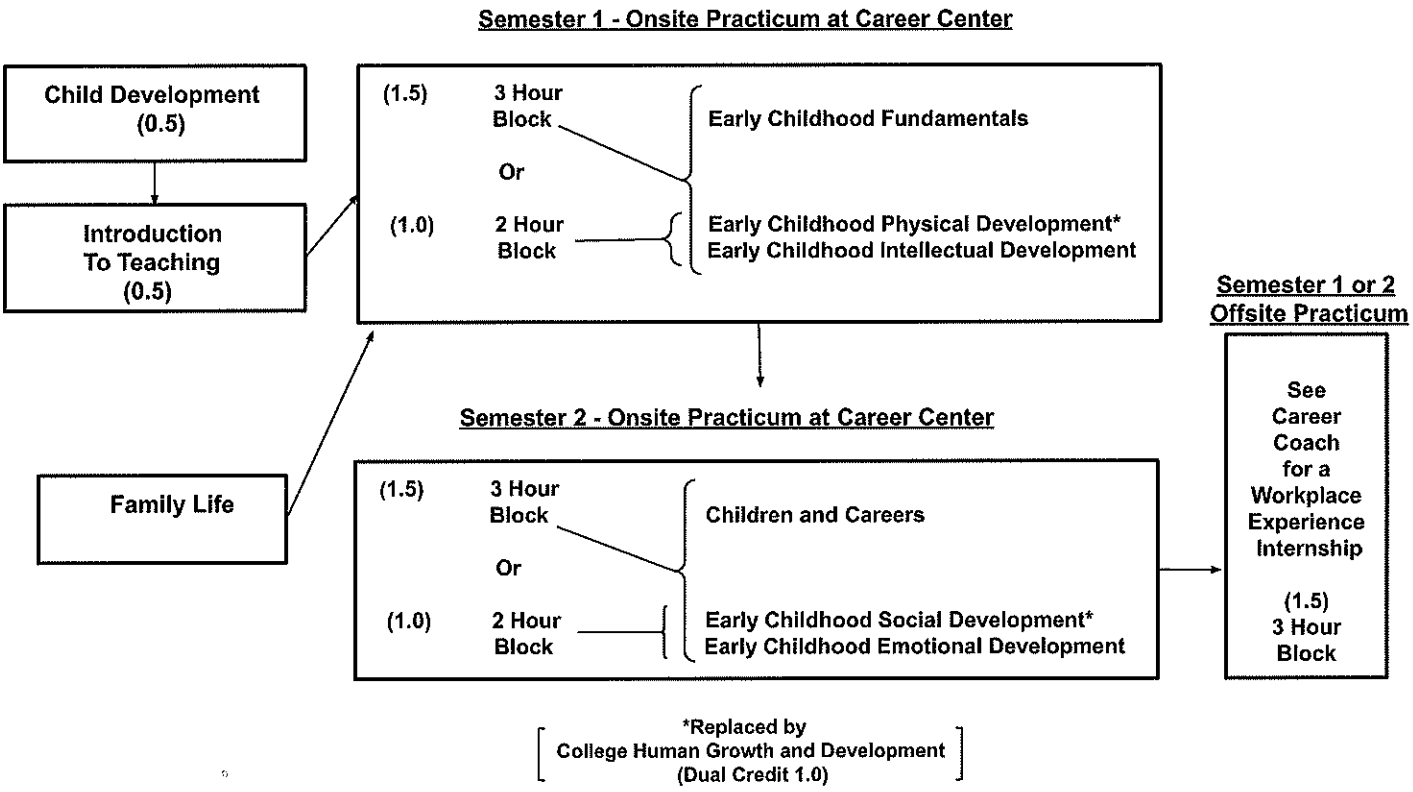
PART OF A TWO-HOUR BLOCK

- **to be taken with Home Design - Semester 1 AND**
- **to be taken with Home Improvement - Semester 2**

Prerequisite Courses: Priority will be given to students with prior related coursework.

Applies toward graduation requirements of: 1 Career Technical Education credit

FACS: Education/Human Services Pathways



*Replaced by
College Human Growth and Development
(Dual Credit 1.0)

Family Life	Credit 1/2	10, 11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: Do you ever wonder who you really are and how you will make all the decisions necessary to get the life you dream of? Family Life is the course for you! This course will give you insight into relevant topics such as goal setting, relationships, marriage, teen pregnancy, and financial planning. Other topics such as divorce and how to handle various crises will also be explored. Discussion will be a major learning tool as well as videos, internet searches, the textbook, and guest speakers.

Fees Charged - Lab fee will be assigned by school.

Prerequisite Courses: None

Applies toward graduation requirements of: 1 Career Technical Education credit

Child Development	Credit 1/2	10, 11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: Do you want to be prepared for one of the most important jobs you will ever undertake? Child Development is a course designed to prepare you not only for parenting but also for employment skills in any field that relates to working with children. This class focuses on the readiness for parenting, exploration of pregnancy, and caring for, nurturing, and guiding the child from birth to age three. You will also evaluate childcare facilities and plan a day care for the child from birth to three. In this course you will also be exploring the world of children through videos, guest speakers, field trips and the "Real Care Simulator" (Baby Think It Over) and hands-on activities with children.

Prerequisite Courses: None

Applies toward graduation requirements of: 1 Career Technical Education credit

Intro to Teaching	Credit 1/2	10, 11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: This course is an introduction to exploring and experiencing the career of teaching or training. Participants must prepare a portfolio of the teaching/training career, prepare and execute a complete lesson plan and an oral presentation. All students will also complete shadowing experiences of a "best practices" educator.

Prerequisites: Child Development is recommended.

Applies toward graduation requirements of: 1 Career Technical Education credit

Early Child Physical Development
Early Child Intellectual Development

-Career Center-	Credit 1	11, 12
Course Name	**Semester 1**	**Grade Level**

Course Description: You will gain practical teaching experience in one of the two Career Center Preschools, after learning teaching techniques in the high school classroom pertaining to children's physical, social, emotional and cognitive development. Emphasis is placed on education through physical and intellectual development. Opportunities are provided to learn what is entailed in various specialized fields such as special education, speech, physical and occupational therapies and pediatric nursing. Whatever path in life you choose children will likely be a part of it; don't miss this opportunity to brighten your life and the lives of many children.

Essential Requirements:

- Early childhood education training
- Teaching in the preschool
- Lesson planning for preschool
- Observation of preschool children
- Study of areas of child development
- Written evaluations

In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

TWO – HOUR BLOCK

Prerequisite Courses: None

Applies toward graduation requirements of: 1 Career Technical Education credit.

Early Child Fundamentals
Early Child Physical Development
Early Child Intellectual Development

-Career Center-	Credit 1.5	11, 12
Course Name	**Semester 1**	**Grade Level**

Course Description: Along with gaining practical teaching experience in the Career Center Preschools and learning techniques pertaining to children's development, this class stresses thematic lesson planning and teaching through centers. Opportunities are provided detailing specialized fields such as special education, speech, physical and occupational therapies and pediatric nursing. This class provides in depth instruction for those considering early childhood education.

Essential Requirements:

- Same as listed above.

In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

THREE - HOUR BLOCK

Prerequisite Courses: None
Applies toward graduation requirements of: 1 Career Technical Education credit.

Early Child Social Development
Early Child Emotional Development

-Career Center-	Credit 1	11, 12
Course Name	**Semester 2**	**Grade Level**

Course Description: You will gain practical teaching experience in one of the two Career Center Preschools, after learning teaching techniques in the high school classroom pertaining to children's physical, social, emotional and cognitive development. Emphasis is placed on education through social and emotional development. Opportunities are provided to learn what is entailed in various specialized fields such as special education, speech, physical and occupational therapies and pediatric nursing. Whatever path in life you choose children will likely be a part of it; don't miss this opportunity to brighten your life and the lives of many children.

Essential Requirements:

- Early childhood education training
- Teaching in the preschool
- Lesson planning for preschool
- Observation of preschool children
- Study of areas of child development
- Written evaluations

In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

TWO – HOUR BLOCK

Prerequisite Courses: None

Applies toward graduation requirements of: 1 Career Technical Education credit

Children & Careers
Early Child Social Development
Early Child Emotional Development

-Career Center-	Credit 1.5	11, 12
Course Name	**Semester 2**	**Grade Level**

Course Description: Along with gaining practical teaching experience in the Career Center Preschools and learning techniques pertaining to children's development, this class stresses thematic lesson planning and teaching through centers. Opportunities are provided to learn what is entailed in various specialized fields such as special education, speech, physical and occupational therapies and pediatric nursing. This class provides in depth instruction for those considering early childhood education.

Essential Requirements:

- Same as listed above.

In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

THREE – HOUR BLOCK

Prerequisite Courses: None

Applies toward graduation requirements of: 1 Career Technical Education credit

College EDU Human Growth & Development -Career Center-	Credit 1 3 Credits @ MSU-B	11, 12
Course Name	**Semester 1 & 2 (Full Year Course)**	**Grade Level**

Course Description: This class presents a comprehensive introduction to the study of human development including the developmental capabilities and needs of humans at different ages with respect to the physical, psychomotor, cognitive, social, emotional, and psychological domains that affect all education. The course includes 4.5 - 5 hrs per week lab at the Career Center Preschool.

Essential Requirements:

- Early childhood education training
- Teaching in the preschool
- Lesson planning for preschool
- Observation of preschool children
- Study of areas of child development
- Written evaluations
- Research Paper
- Case Study Paper
- Final Project

In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

One Hour Class that is taken as part of a Two Hour Block (with Early Child Intellectual Development-1st Semester or part of a Three Hour Block (with Early Child Fundamentals and Early Child Intellectual Development 1st Semester). 2nd Semester – This class is taken with Early Child Emotional Development in a Two Hour Block or part of a Three Hour Block – with Child and Careers and Early Child Emotional Development.

Prerequisite Courses: None

Applies toward graduation requirements of: 1 Career Technical Education credit

Stand Alone FACS Course

Adulting 101	Credit 1/2	11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: This course is designed to provide skills to live independently after high school whether away at college or on their own. This course covers nutrition and basic meal preparation, basic clothing repair, and money management.

Fees Charged – Lab fee will be assigned by school.

Prerequisite Courses: None

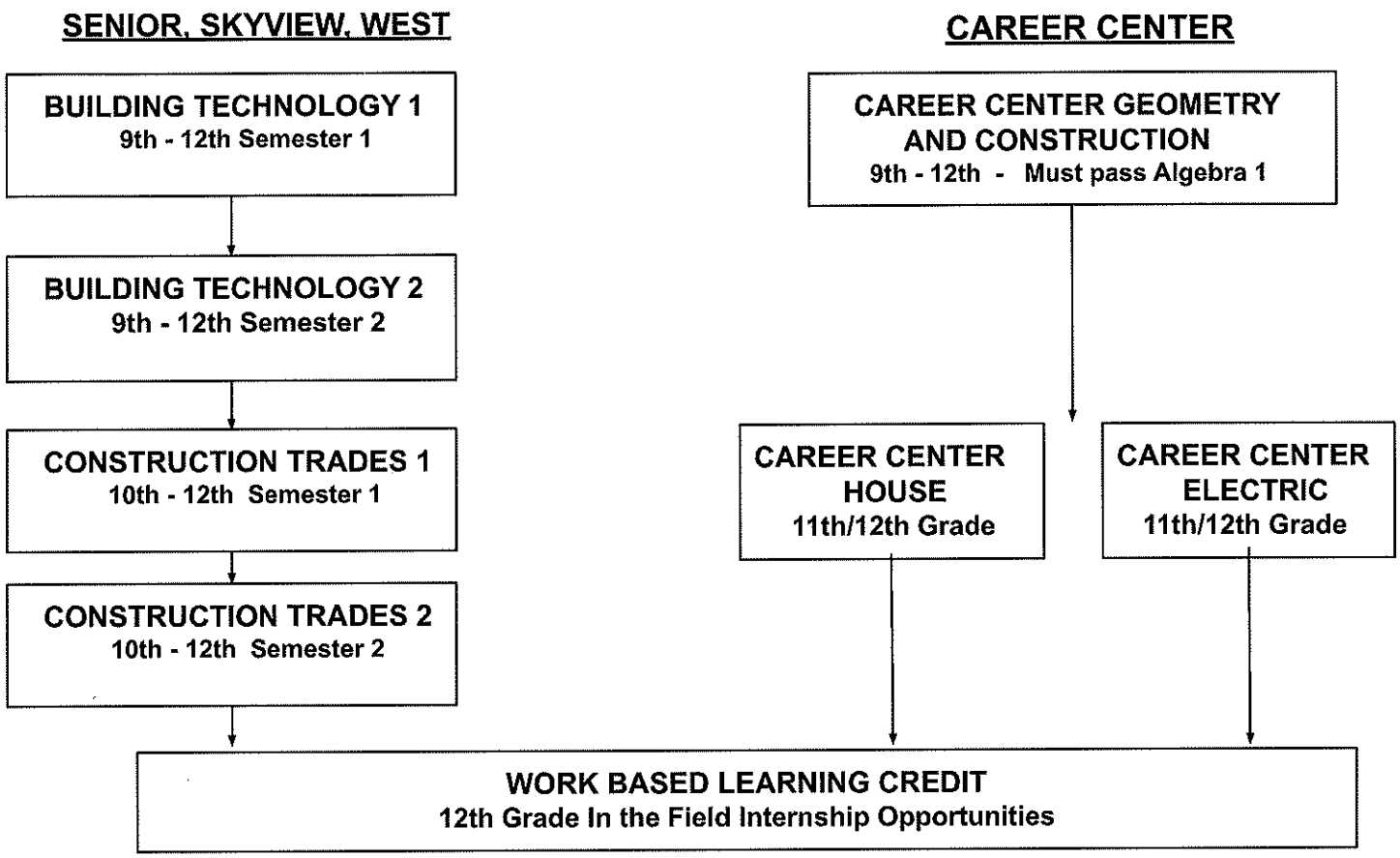
Applies toward graduation requirements of: 1 Career Technical Education credit

TECHNOLOGY EDUCATION

Students today need to be prepared for the future. They will need to have basic skills in areas such as: computers, design, building and testing different products, brainstorming, communication, computer controlled systems, robotics, lasers, and many other technologies in order to be prepared for the future. Most of these can be accomplished in the classes offered in the Technology Education area.

All of the classes offered in the Technology Education area are hands on activities.
If these classes sound like they are something you would like to do to prepare for your future, sign up today.

BPS CONSTRUCTION PATHWAYS



*Construction
*Electrical
*Plumbing

*HVAC
*Concrete/Masonry
*Design & Drafting

Building Tech 1 (Pre-Construction)	Credit 1/2	9, 10, 11, 12
Course Name	**Semester 1**	**Grade Level**

Course Description: Students who want to build houses, learn basic woodworking skills, or be in the carpentry trade will enjoy learning the skills it takes to successfully design and build from scratch. This is an entry level program oriented around the basic building blocks necessary to pursue a career in construction. Students will discover basic wiring, simple framing, and product production. Building Tech 1 is about sequential project planning, trade math, tool identification and safety use, and small project completion. Time honored building concepts and procedures will be taught and measured in pursuit of a work based learning environment leading to industry employment.

Prerequisite Courses: None

Applies toward graduation requirements of: 1 Career Technical Education credit

Building Tech 2 (Pre-Construction 2)	Credit 1/2	9, 10, 11, 12
Course Name	**Semester 2**	**Grade Level**

Course Description: Building Tech 2 takes the building blocks of Building Tech 1 to a more advanced level. This class will incorporate design basics of both construction and fabrication. Students will continue to challenge themselves to gain a better understanding of the skills and jobs in the construction industry. Students will explore manufacturing processes, small project designs, and entrepreneurial concepts.

Prerequisite Courses: Building Tech 1

Applies toward graduation requirements of: 1 Career Technical Education credit

Construction/Trades 1 & 2	Credit 1/2	10, 11, 12
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: Construction is a program that provides employment preparation and technical training to high school students for a wide range of opportunities within the construction industry. This course will focus on employment preparation skills for entering the workforce in a number of trades. Some areas of focus will be safety certifications, measuring, and plan reading. Residential and commercial construction experience will include fabrication, installation, service or maintenance and warehouse opportunities. Hands on training will be emphasized throughout the course with training related to carpentry, cabinetry, framing, roofing, flooring, windows and doors, molding and millwork. Some electrical, plumbing and HVAC will also be constructed throughout this course.

This course will work directly with industry partners helping to provide career opportunities as well as using the High School Career Coaches as job preparation specialists.

Prerequisite Courses: Building Tech 2 for Construction/Trades 1
Construction/Trades 1 for Construction/Trades 2

Applies toward graduation requirements of: 1 Career Technical Education credit

Technical Geometry Geometry in Construction-Career Center	Credits 1 (½ Math-½ Career Technical Education each semester	9, 10, 11
Course Name	**Semester 1 & 2 (Full Year Course)**	**Grade Level**

Course Description: This course is designed to show the relevance of Geometry through a variety of practical applications related to but not limited to the construction industries. Students will be: participating in hand-on activities, working in a classroom & shop setting, participating in the construction of a house, and investigating business components in construction and related industries. Students who are interested in architecture, interior design, engineering, construction management, drafting, building trades (electrical, plumbing, etc.) as well as all aspects of manufacturing would benefit from this course. The objectives of this course are to promote academic rigor and real world relevance by having students solve multi-step problems, engage in math concepts that appear in different phases of construction and work in a team setting.

Essential Requirements:

- Students will participate in all aspects of safety, related to construction and manufacturing industries.
- Students will work in shop and construction site environments.
- Students will successfully complete the Geometry requirements as indicated in the All Billings Curriculum.

In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

TWO – HOUR BLOCK / YEAR LONG CLASS
FALL ENROLLMENT ONLY

Prerequisite Courses: Algebra 1 with a "C" grade or better

Applies toward graduation requirements of: 2 Math credits and 1 Career Technical Education credit

Construction Fundamentals 1
Carpentry 1
Construction Technique 1- Career Center **Credits 1 1/2**
First Year - Semester 1 **11, 12**

Course Name	**Semester 1**	**Grade Level**

Course Description: First year house construction students will work hands-on in the construction of this year's student built house. Students will develop skills and valuable construction knowledge in the first phases of the building construction trades. Students will learn the dynamics of a real residential house construction site. Students will receive on the job training as they learn the trades and experience the work ethics of residential construction.

Essential Requirements:

- Students will complete: framing, stairs, roofing, exterior window and door installation, soffit and fascia, heating and cooling (with professionals), plumbing (with professionals), insulation, drywall hanging, drywall perfataping.
- Ability to work safely, independently and as part of a team, and without constant supervision are critical to this class.

*Students will be working indoors and outdoors in temperatures ranging from 20 to 100 degrees.

In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

THREE – HOUR BLOCK - NO EXCEPTIONS!

Prerequisite Courses: None

Recommended courses: Building Tech 1 pathway (Building Tech 1, 2, Construction Trades 1, 2, and/or Geometry in Construction)

Applies toward graduation requirements of: 1 Career Technical Education credit

Construction Fundamentals 2
Carpentry 2 **Credits 1 1/2**
Construction Technique 2- Career Center **First Year - Semester 2** **11, 12**

Course Name **Semester 2** **Grade Level**

Course Description: First year house construction students will continue to work hands-on in the construction of this year's student built house. Students will develop skills and valuable construction knowledge in the remaining phases of the building construction trades. Students will learn the dynamics of a real residential house construction site. Students will receive on the job training as they learn the trades and experience the work ethics of residential construction.

Essential Requirements:

- Students will complete: drywall hanging, drywall perfataping, interior door installation, trim out and carpentry, cabinet installation, floor coverings, siding and stone applications, deck building, and all aspects of detailing out a house.
- Ability to work safely, independently and as part of a team, and without constant supervision are critical to this class.

*Students will be working indoors and outdoors in temperatures ranging from 20 to 100 degrees.

In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

THREE – HOUR BLOCK - NO EXCEPTIONS!

Prerequisite Courses: Construction Fundamentals 1, Carpentry 1, Construction Technique 1 with a grade of "C" or better, or consent of instructor with recommendation of administrator/counselor.

Applies toward graduation requirements of: 1 Career Technical Education credit

Building Trades 1	**Credits 1 1/2**	
House Building 1	**Second Year - Semester 1**	**12**
Construction Technique 3-Career Center		
Course Name	**Semester 1**	**Grade Level**

Course Description: Second year house construction students will work with first year students to complete this year's student built house. The second year student will serve as a leader to demonstrate good work ethics and help guide first year students through the building construction trades. Second year students will expand their knowledge and refine their skills as they work to complete a second house. The second year student should achieve greater proficiency in their work and the development of their skills.

Essential Requirements:

- Students will complete: framing, stairs, roofing, exterior window and door installation, soffit and fascia, heating and cooling (with professionals), plumbing (with professionals), insulation, drywall hanging, drywall perfataping.
- Ability to work safely, independently and as part of a team, and without constant supervision are critical to this class

*Students will be working indoors and outdoors in temperatures ranging from 20 to 100 degrees.

In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

THREE – HOUR BLOCK FOR 2ND YEAR STUDENTS – NO EXCEPTIONS!

Prerequisite Courses: Successful completion of one semester of Construction Fundamentals 1, Carpentry 1, Construction Technique 1, or Construction Fundamentals 2, Carpentry 2, Construction Technique 2 with a "C" grade or better or consent of instructor with recommendation of counselor/administrator.

Applies toward graduation requirements of: 1 Career Technical Education credit

Building Trades 2
House Building 2 **Credits 1 1/2**
Construction Technique 4-Career Center **Second Year - Semester 2** **12**

Course Name **Semester 2** **Grade Level**

Course Description: Second year house construction students will receive the hands-on training that comes with working through the last phases of house construction. Second year students will experience the challenges of house construction with a greater level of understanding. Students will benefit from the development of skills with a higher proficiency and the diverse knowledge that comes with two years of training. Students will enter the job market with confidence and success.

Essential Requirements:

- Students will complete: drywall hanging, drywall perfataping, interior door installation, trim out and carpentry, cabinet installation, floor coverings, siding and stone applications, deck building, and all aspects of detailing out a house.
- Ability to work safely, independently and as part of a team, and without constant supervision are critical to this class.

*Students will be working indoors and outdoors in temperatures ranging from 20 to 100 degrees.

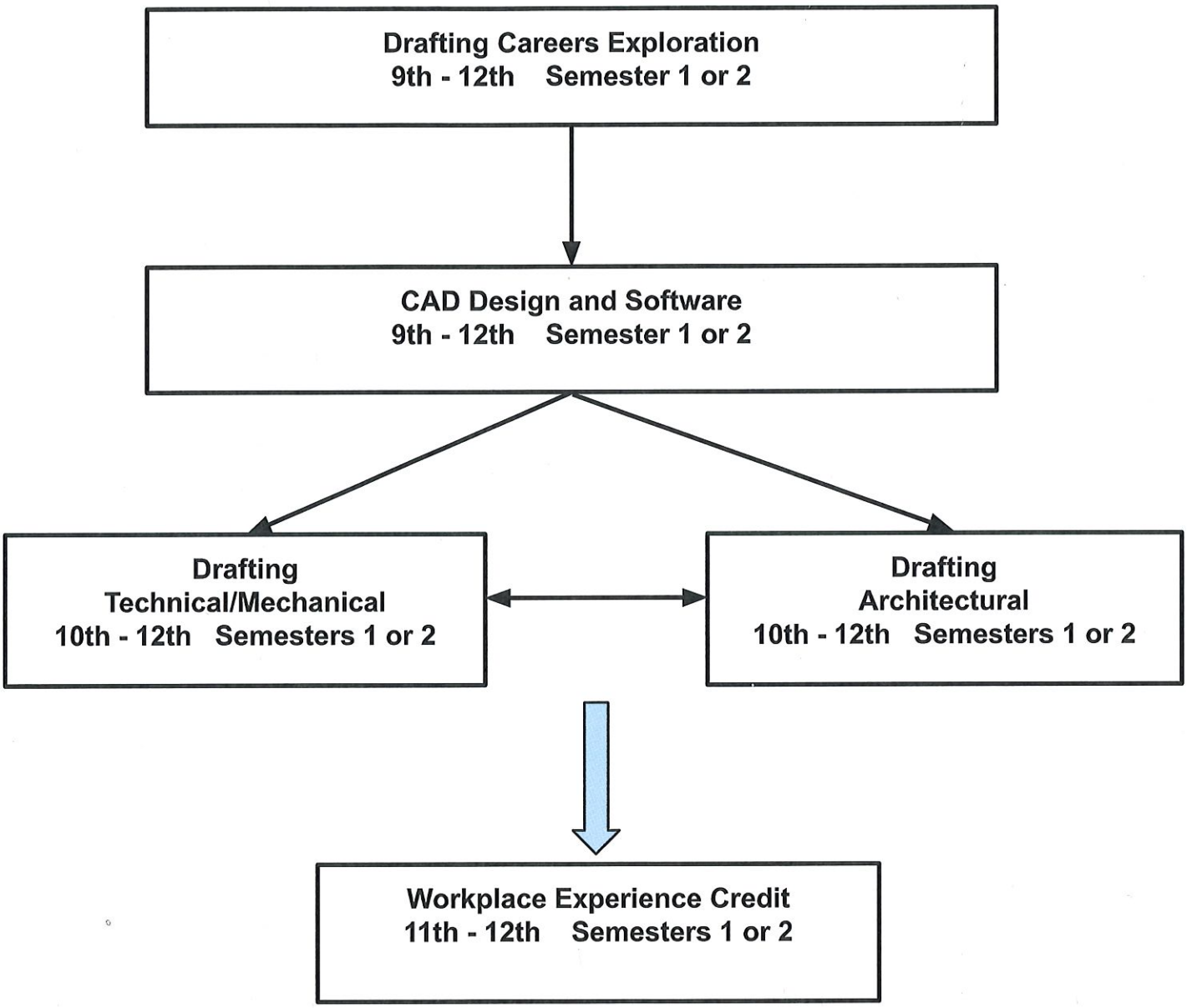
In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

THREE – HOUR BLOCK FOR 2ND YEAR STUDENTS - NO EXCEPTIONS!

Prerequisite Courses: Successful completion of Building Trades 1, House Building 1, Construction Technique 3 with a grade of "C" or better or consent of instructor with recommendation of counselor/administrator.

Applies toward graduation requirements of: 1 Career Technical Education credit

BPS DRAFTING PATHWAY



Drafting Careers Exploration	Credit 1/2	9, 10, 11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: Geared for students with an interest in careers that use drafting skills and applications. Drafting Careers Exploration courses expose students to the opportunities available for drafts people (engineering, architectural, industrial, and so on). These courses serve to introduce basic skills and the field in general, providing students with the opportunity to identify a focus for continued study or to determine that their interests lie elsewhere.

Prerequisite Courses: None

Applies toward graduation requirements of: 1 Career Technical Education credit

CAD Design and Software	Credit 1/2	9, 10, 11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: This course is offered as an intermediary step to more advanced drafting courses. Though introduced in the Drafting Careers Exploration course, CAD Design and Software courses provide students with a more in-depth application to Computer-Aided Drafting (CAD) systems available in the industry. Students will be provided a more focused attention on particular area of expertise.

Prerequisite Courses: Successful completion of Drafting Careers Exploration

Applies toward graduation requirements of: 1 Career Technical Education credit

Drafting-Architectural	Credit 1/2	10, 11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: This course introduces students to and helps them refine the technical craft of drawing illustrations to represent and/or analyze design specifications using examples drawn from architectural applications. This course is intended to help students develop general drafting skills but places a particular emphasis on interior and exterior (residential and/or light commercial) design, site orientation, floor plans, electrical plans, design sketches, scale models and presentation drawings.

Prerequisite Courses: Successful completion of CAD Design and Software

Applies toward graduation requirements of: 7 Elective Credits

Drafting-Technical/Mechanical	Credit 1/2	10, 11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: This course introduces students to and helps them refine the technical craft of drawing illustrations to represent and/or analyze design specification using examples drawn from industrial applications. This course is intended to help students develop general drafting skills but places a particular emphasis on sectioning, auxiliary views, revolutions, and surface development. Students typically learn to draw schematic diagrams.

Prerequisite Courses: Successful completion of CAD Design and Software

Applies toward graduation requirements of: 7 Elective Credits

RESERVED FOR COMPUTER PROGRAMMING

NEW PATHWAY COMING FOR 2024-2025!!!

Technology Lab	Credit 1/2	9, 10, 11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: Technology Lab provides the student with exposure to a variety of technical areas. Each activity ties to one or more classes. This allows students to try out a topic before committing to a semester course. A variety of software programs and simulations are utilized as well as computer hardware and programmable robots.

Major Topics Include:
Robotics, web page design, animation, design and problem solving, introductory programming, computer hardware, graphic design, drafting and pre-engineering.
No prior experience is necessary and each activity lasts approximately 2 weeks.

Prerequisite Courses: None. Completion of Algebra 1 or higher is recommended.

Applies toward graduation requirements of: 1 Career Technical Education credit

Computer Programming 1	Credit 1/2	9, 10, 11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: The students will learn to code and debug programs for the PC. The logic involved in writing programs is developed through the structured format of the JavaScript/CSS programming language. Students will learn to use programming to solve practical problems and to introduce potential career paths in the Information Technology (IT) industry. The course is designed to teach a "structured" approach to writing programs so that skills learned can easily be transferred to other languages and computer applications.) At the end of the semester students develop a final project.

Prerequisite Courses: None

Applies toward graduation requirements of: 1 Career Technical Education credit

Computer Programming 2	Credit 1/2	9, 10, 11, 12
Course Name	**Semester 2**	**Grade Level**

Course Description: The coursework starts where Computer Programming 1 leaves off and involves problems that challenge the student in JavaScript and introduces them to advanced computer programming concepts. The emphasis in on a "structured" approach to programming so that skills learned can easily be transferred to other computer languages and applications. At the end of the semester students develop a final project.

Prerequisite Courses: Successful completion of Computer Programming 1

Applies toward graduation requirements of: 1 Career Technical Education credit

Computer Programming 3	Credit 1/2	10, 11, 12
Course Name	**Semester 2**	**Grade Level**

Course Description: Students expand language knowledge base by learning and applying Python. Hardware/software constraints are examined and integrated into software development. Students finish the semester by developing a project of their own choosing.

Prerequisite Courses: Successful completion of Computer Programming 2

Applies toward graduation requirements of: 1 Career Technical Education credit

Computer Programming 4	Credit 1/2	10, 11, 12
Course Name	**Semester 2**	**Grade Level**

Course Description: Students in Computer Programming 4 will explore the integration of hardware and software in a fast paced hands-on environment. Exploration of electronics will be coupled with embedded software written by the students to meet design parameters. Students will program microprocessor controllers and use sensors to build digital projects, including robots, to solve designated problems.

Prerequisite Courses: Successful completion of Computer Programming 3

Applies toward graduation requirements of: 1 Career Technical Education credit

Other Electives

OTHER ELECTIVES

University Connection	Credit ½ Each Semester	11, 12
Course Name	**Semesters 1 and/or 2**	**Grade Level**

Course Description: This course is designed to allow students to seek dual credit through college and university systems while enrolled in high school. Please contact your counselor if you are seeking dual credit for a university course while enrolled in high school.

Essential Requirements:

- Students cannot earn credit for courses that are offered at the home school
- Students may earn dual credit if declared in advance
- Students attend class on college campus or online through college
- Students are responsible for tuition and transportation

Prerequisite Courses: Counselor and administrative approval

Applies toward graduation requirements of: 7 Elective credits

Bear Buddies - West	Credit ½ Each Semester	11, 12
Course Name	**Semesters 1 and 2**	**Grade Level**

Course Description: This mentorship program is an extremely valuable, positive and life changing experience for our high school students. It is equally meaningful to the elementary and middle school students who are matched with these high school students.

Each high school student will be matched with an elementary or middle school classroom where they will mentor student(s) assigned to them. The "Bear Buddies" class will be scheduled in the school day for one class period and students will travel to their school placement and return to West High for their remaining classes.

Prerequisite Courses: Applicants will complete a "Bear Buddies" application that will be reviewed by the counselor in charge of this program along with other educational professionals from the placement schools to evaluate and determine who will be interviewed. A student's attendance, academic performance, involvement inside and outside of school, and presentation in their interview will be part of the decision process of who will be placed. Character references are required and reviewed as part of the overall screening process. Applicants need to have their own transportation. Once accepted, applicants are required to complete an orientation/training process that is initiated at West High and continues at the schools they are placed. We reserve the right to cancel any match at any time if necessary due to issues with attendance or student conduct. We also can reject an application and not match a high school student to a placement.

Students are expected to remain in this course the full year; can be added for second semester but not dropped.

Applies toward graduation requirements of: 7 Elective Credits

Forensics/Speech	Credit 1/2	9, 10, 11, 12
Course Name	**Semesters 1 and or 2**	**Grade Level**

Course Description: Speech is a semester course for those wishing to work on their public speaking skills. Interpretation of literature, improvisation, and impromptu speaking, as well as formal speaking are covered. This course is for that student who is highly motivated and interested in developing skills for performing before an audience.

Prerequisite Courses: None

Applies toward graduation requirements of: 7 Elective credits

Forensics/Debate	Credit 1/2	9, 10, 11, 12
Course Name	**Semesters 1 and or 2**	**Grade Level**

Course Description: Debate is a semester course for students who wish to receive extensive training in competitive debate and to perform in competition throughout the State. This course is for that student who is highly motivated and interested in developing skills for competitive debating before judges.

Prerequisite Courses: None

Applies toward graduation requirements of: 7 Elective credits

College Intro to Public Speaking	Credits 1/2 3 Credits @ MSU-Billings	11, 12
Course Name	**Semester 1 and or 2**	**Grade Level**

Course Description: Students develop speaking abilities as they acquire an understanding of basic rhetorical theory and its application in a variety of speech situations. Listening, speaking, and critiquing abilities are emphasized. This course addresses the following topics: speech preparation and delivery, forming and fielding questions, audience analysis, listening skills, critiquing and speaker anxiety.

This course is the equivalent of COMX 111 Introduction to Public Speaking-(3 Credits) at MSU-Billings

Prerequisite Courses: None

Applies toward graduation requirements of: ½ Elective Credit

NEWSPAPER JOURNALISM

Bronc Express - Senior	Credit 1	10, 11, 12
Course Name	**Semesters 1 & 2**	**Grade Level**

Course Description: This course is designed to teach the skills necessary to work as a member of a publication team. Along with publishing the school newspaper, students design the newspaper and magazine productions, set publishing dates and adhere to them, determine article topics, research topics, conduct interviews, write and edit articles weekly, take and create press ready photographs, and design and prepare pages for publication. Emphasis is placed on learning and using technology. Students gain a good working knowledge of computers, digital cameras, and professional software.

Prerequisite Courses: Minimum of a C in English. Students must also realize that the class requires some after school time.

Applies toward graduation requirements of: 7 Elective Credits

YEARBOOK JOURNALISM

Bronc Express – Senior	Credit 1	10, 11, 12
Wingspan - Skyview	Credit 1	10, 11, 12
Westward Annual - West	Credit 1	10, 11, 12
Course Name	**Semesters 1 & 2**	**Grade Level**

Course Description: This course is designed to teach the skills necessary to work as a member of a publication team including writing articles, designing paper layouts, taking photographs, interviewing, proofreading, sales, fundraising, and other necessary tasks to produce a quality yearbook.

Prerequisite Courses: "C" average in English. Students must also realize that the class requires some after-school time and peer to peer sales.

Applies toward graduation requirements of: 7 Elective Credits

Journalism 1 - Senior only	Credit ½ per semester	11, 12
Course Name	**Semesters 1 & 2**	**Grade Level**

Course Description: Journalism 1 courses teach students the fundamental skills of graphic design and production and provide students with the opportunity to apply these principles to printed media, digital presentation media, and interactive media as related to the school newspaper or yearbook productions.

Prerequisite Courses: Newspaper and/or Yearbook

Applies toward graduation requirements of: 1 CTE credit or 7 Elective credits

Journalism 2 - Senior only	Credit ½ per semester	11, 12
Course Name	**Semesters 1 & 2**	**Grade Level**

Course Description: Journalism 2 courses expose students to the advanced tools, materials, and processes involved in mass production of photography and printing as related to school newspaper or yearbook productions. Advanced project topics may include the use of cameras, composition, imposition, presswork, and computer aided publishing.

Prerequisite Courses: Journalism 1

Applies toward graduation requirements of: 1 CTE credit or 7 Elective credits

Peer Tutoring Academic	Credit 1/2	11, 12
Course Name	**Semesters 1 or 2**	**Grade Level**

Course Description: Peer Tutoring Academic is a class for junior and senior students who would enjoy working as an assistant mentor in a classroom with students enrolled. Academic peer tutors would work closely with the classroom teacher to make sure he/she understands expectations. Academic peer tutors would work with struggling students on an individual or small group basis. It is imperative that peer tutors are present on a daily basis because students and teachers rely on you. (Peer Tutors will not perform teacher aide duties or work on personal homework.)

Prerequisites:

- ❖ Strong Attendance History

Applies toward graduation requirements of: 7 Elective credits

Young Families	Credit 1	9, 10, 11, 12
Course Name	**Semesters 1 & 2**	**Grade Level**

Course Description: A program designed to meet the needs of pregnant and parenting students. Pregnant students receive a complete prenatal and childbirth education curriculum along with looking at the options of adoption and parenting. Parents have a quality day-care in which to learn hands-on parenting skills and to leave their infants while attending required classes at their home school.
Students receive 1/2 credit per hour and attend 2 hours per day for a maximum total of four semesters. (No more than 2 credits).

Prerequisite Courses: None

Applies toward graduation requirements of: 7 Elective credits

Workplace Experience Credit	Credit 0.5 - 1.5	11, 12
Course Name	**Semesters 1 or 2**	**Grade Level**

Course Description: Billings Public Schools students have the opportunity to participate in a Workplace Experience Internship which enables them to leave campus and apply their skills in a professional industry setting in a field related to their career pathway of interest. Learning outcomes and goals are set cooperatively by the student, partnering business, teacher coordinator, and career coach. Interns are required to complete a minimum of 90 hours per 0.5 credit per semester with the majority of that time in the workplace. Internships may include classroom activities with the teacher coordinator, involving further study of the field or discussion regarding experiences that students encounter in the workplace. Interns are supported throughout the program by their career coach and teacher coordinator and are graded on hours worked, reflections, assignments if applicable, and evaluations by their employer supervisors. Students earn elective course credit for their experience, as well as gain valuable work experience to add to their resumes. Interns may be paid but are typically unpaid.

Coordination of this course will be handled by the school's respective career coach with support from assistant principal and counselor.

Prerequisite Qualifications: Students must be in 11th or 12th grade, in good standing and on track to graduate, and should have successfully completed prior course work in the career pathway of interest. Priority will be given to 12th Grade Students due to space limitations.

The teacher coordinator must meet the licensure requirements (Ag-Ed, Business, Marketing, Graphics, Culinary, FCS, Tech Ed, Health Sciences, Performing Arts, Science, IT, and Engineering) in the career pathway that the student is requesting credit.

The partnering business, whether offering a paid or unpaid opportunity, must be willing to submit background checks for themselves and any related employee or have their own background check process in place that meets the district's threshold for acceptance.

Students may request a Workplace Experience Internship within any career pathway. Please contact the school's respective Career Coach for further prerequisites for these internship opportunities. Grades are typically Pass/Fail only but do not count into GPA or Class Rank.

Applies toward graduation requirements of: 7 Elective Credits

Academic Success-Senior & Skyview	Credit 1/2	9, 10
Course Name	**Semesters 1 & 2**	**Grade Level**

Course Description: This class is designed to assist students who need to acquire study skills needed for future success in high school and/or college. The class time is spent teaching students various study skills, e.g., organization, time management, note taking, test taking, use of mnemonic devices, computer 'usage', self-evaluation, and paraphrasing. There is a built-in system of accountability which comes from regular progress checks with the classroom teachers, frequent contact with parents, and monitoring of work when the student is in this class. The ultimate goal is to foster a sense of responsibility on the part of the individual student.

Prerequisite Courses: None

Applies toward graduation requirements of: 7 Elective credits

Student Council - Leadership and Civics	Credit 1/2	12
Course Name	**Semesters 1 & 2**	**Grade Level**

Course Description: This course is designed to enhance students' leadership skills in the following areas: Goal Setting, Organization, Communication, Group Process, Responsible Citizenship, and Business Acumen. There is a built-in system of accountability which comes from planning, implementing, and leading regular Council events such as, but not limited to: bi-monthly meetings, community service opportunities, assemblies, clean-ups, social media postings, public relations interviews, merchandize sales, book/record keeping, etc... The ultimate goal of this course is to prepare student to become civic minded citizens and leaders.

Prerequisite Courses: Elected by peers as a Student Body Officer

Course objectives include, but are not limited to:

- **Goal Setting**
- **Organization/Time Management**
- **Communication/Skills**
- **Group Processes**
- **Responsible Citizenship**
    - Does demonstrate ethical behavior and acts with integrity, providing a model for others of personal responsibility and ethical behavior.
    - Does display a positive attitude toward the beliefs and ideas of others and an appreciation of the work of others.
    - Does identify the needs of others, respond to those needs, and experience the benefits of serving others.
    - **Business Acumen**
    - Can identify the target population and then incorporate merchandising techniques, pricing strategies, and produce display along with various advertising techniques.
    - Can understand the elements of budgeting and the procedure for purchases and expenditures with student funds.
    - Can understand chain of command and resolve problems within the scope of their authority, employing positive communication skills.
    - Can understand and apply rules and regulations affecting student organizations, as well as contract and bidding.

The Billings

Career Center

Course Offerings

www.billingscareercenter.com

Jobs for Montana's Graduates	Credits 1/2 (each semester)	11, 12
Course Name	**Semester 1 and/or 2**	**Grade Level**

Course Description: The Jobs for Montana's Graduates (JMG) program assists Montana high school students in preparing for life after high school by giving students practical experience with: 21st Century Work/Survival Skills, Entrepreneurship, and Career and Life Exploration. The course is for 11th and 12th grade students who are interested in successfully transitioning from school to work/military or with continuing their education. It also assists struggling students by helping them stay in school and graduate. Ideally, students will come out of the class with some ideas for what they want their life to look like and what career or education they would like to pursue after graduation.

Essential Requirements:

- Employability Skills Curriculum - Career Development, Job Attainment (getting a job), Job Survival (keeping a job), Basic Competencies (including math, reading, writing), Leadership, Self-Development, and Personal Skills.
- Entrepreneurial Skills Curriculum - EMPOWERED curriculum teaches students about economic thinking and gives basic skills required to pursue business ideas. Students experience a market economy in the classroom while participating in activities that allow students to learn while doing. Curriculum culminates in students participating in a Market Day where students have an opportunity to run their own business.
- Montana Career Association - a motivational student organization which fosters the development of leadership, decision-making, assertiveness skills, provides recognition for achievement, and builds self-esteem.
- Job Development and Placement - Job Shadowing experiences that help build critical work skills for future success.
- Post Graduation follow-up - graduates commit to following-up with the JMG teacher for 9 months post graduation.
- Active and productive partnership between business and education.

In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

ONE – HOUR CLASS

Prerequisite Courses: None

Applies toward graduation requirements of: 1 Career Technical Education credit

***This course applies to the Financial Literacy Credit for graduation starting with Class of 2027.**

Principles of the Biomedical Sciences	Credit 1	9, 10, 11, 12
Course Name	**Semester 1 & 2 (Year Long Class)**	**Grade Level**

Course Description: Principles of Biomedical Science (PBS) is a rigorous, fast-paced full-year course intended to provide a basic foundation for students who are potentially interested in a career in medicine, healthcare, and even animal science. This course will help students gain knowledge and skills in biology, anatomy & physiology, genetics, microbiology, and epidemiology, and it will encourage students to apply what they learn to real-world situations. Through individual and collaborative team activities, projects, and case studies, students will take on roles of various biomedical professionals to tackle challenges these workers commonly face. Students will learn how to operate tools that hospital and lab employees use, and they will gain relevant hands-on experiences. Students will be challenged to apply common forensic science methods to investigate the health history and eventual death of a fictitious person. They will diagnose and propose treatments to patients in a family medical practice, track down and contain a medical outbreak at a local hospital, stabilize a patient during an emergency, and collaborate with others to design solutions to local and global medical problems.

Students should be prepared for nightly homework as well as quizzes, tests, and technical writing assignments.

Because the course curriculum is only available online, it is essential that students have reliable and consistent access to a home computer as well as internet access.

The entirety of this course must be successfully completed in order to take the subsequent courses, "Human Body Systems" followed by "Medical Interventions". This class is also a suggested prerequisite for other health science courses offered at the Career Center. PBS is aligned with educational standards of the NGSS, Common Core, and National Consortium for Health Science Education.

- This class is available to grades 9 - 12; 1 credit, year-long course; CTE credit (not a science credit).

Essential Requirements:
- An ability to work well in small groups with peers.
- An ability to work independently and be self-motivated, including appropriate use of time provided in class, as well as managing time and workflow outside of school hours to complete assigned tasks in the time allotted.
- An ability to follow lab safety protocols
- An ability to perform basic computer skills.

In the event of over enrollment, **first criteria** for consideration shall be prior year's daily attendance, followed by performance in prior science, math, and English courses.

ONE - HOUR CLASS
STUDENTS MAY ENROLL IN FALL ONLY

Prerequisites to take PBS:
- **It is highly encouraged that a student has already successfully completed or be concurrently enrolled in biology.**
- It is highly encouraged that a student earned a "C" or better in their current and previous year of grade-level science class.
- It is highly encouraged that a student earned a "C" or better in their current and previous year of grade-level math class.
- It is highly encouraged that a student earned a "C" or better in their current and previous year of grade-level English class.

Other important info:
- **Attendance is extremely important as many hands-on activities and labs can only be completed in class. If absent, students must make them up before school, during lunch, or after school.**
- Students will work independently as well as in small groups.
- Students will oftentimes present orally to small groups and the entire class.

Applies toward graduation requirement of: 1 Career Technical Education Credit
- Concurrent enrollment in PBS and HBS is only allowed with the course instructor/administrator approval.
- Attendance is very important to a student's success in this course.
- If the student does not have a computer, the instructor will make arrangements to check out a school computer.

Human Body Systems	Credit 1	10, 11, 12
Course Name	Semester 1 & 2 (Year Long Class)	Grade Level

Course Description: By exploring science in action, students work through real-world medical cases by researching prevention and treatment options of common systemic diseases, designing and carrying out experiments, investigating structures and functions of the human body, dissecting a number of organs and body parts, and using data acquisition equipment and software to monitor a variety of body functions. Over 40 related healthcare careers are embedded in the activities performed. This course challenges students to think critically through a combination of active learning activities and labs. As a result there is very little time devoted to lecture. HBS is a rigorous, fast-paced full-year course. Students will build upon what they learned in PBS --including medical terminology, fundamentals of biochemistry, anatomy, physiology, and genetics -- and learn technical writing skills for medicine and science. This course is designed to provide a scientific foundation for the subsequent biomedical science course, Medical Interventions.

The six units cover the following specific concepts: **Identify** (anatomical and directional terminology, overview of all body systems, histology, skeletal system, forensic anthropology, DNA/PCR/gel electrophoresis, biometrics); **Communication** (brain, nervous system, action potential, eye anatomy and physiology, hormones and endocrine system); **Power** (enzymes, macromolecules, digestive system, metabolism, respiratory system, urinary system); **Movement** (joint types, ROM, muscle anatomy and physiology, circulatory system, exercise physiology, athletic training); **Protection** (integumentary system, burns, bone injuries, x-rays, lymphatic and immune system, blood types, immunology); **Homeostasis** (review all body systems, health and wellness; reproductive system).

Students who enroll in this course are typically interested in pursuing a degree in science, math, or technology--i.e., in research, laboratory, or clinical medicine. As a result, it is highly encouraged that they should be taking or plan to take higher level math and science for four years of high school. Other important traits are: self-motivated, strong work ethic, good time management, interest in medicine and enjoyment in finding creative solutions to problems.

Students should be prepared for nightly homework as well as quizzes, tests, and technical writing assignments.

The entirety of this course must be successfully completed in order to take the subsequent course, "Medical Interventions". It is also a suggested prerequisite for other health science courses offered at the Career Center. This course is aligned with educational standards of the: NGSS, Common Core, and National Consortium for Health Science Education.

In the event of over enrollment, **first criteria** for consideration shall be the grade attained both semesters of PBS (suggested a 'C; or above both semesters to be successful in this course) as well as excellent attendance in that course and overall school attendance, followed by performance in prior science, math, and English courses.

- **It is essential that students have reliable and consistent access to a home computer as well as internet access.**
- **Attendance is extremely important as many hands-on activities and labs can only be completed in class. If absent, students must make them up before school, during lunch, or after school.**
- This class is available to students who successfully completed PBS (suggested a 'C' or better); grades 10-12; 1 credit year-long course, CTE credit (not a science credit)

Essential Requirements:

- An ability to work well in small groups with peers.
- An ability to work independently and be self-motivated, including appropriate use of time provided in class, as well as managing time and workflow outside of school hours to complete assigned tasks in the time allotted.
- An ability to follow lab safety protocols.
- An ability to perform basic computer skills.

ONE – HOUR CLASS
STUDENTS MAY ENROLL IN THE FALL ONLY

Prerequisite Courses:

- Successful completion of PBS with a "C" or better both semesters or instructor/administrator approval.
- Concurrently enrolled in biology or successful completion of biology with a 'C' or better.
- Successful completion of grade-level appropriate math class with a 'C' or better.
- Successful completion of all previous years of English class with a 'C' or better.

Applies toward graduation requirements of: 1 Career Technical Education Credit

- Concurrent enrollment in PBS and HBS is only allowed with the course instructor/administrator approval OR concurrent enrollment in HBS and MI (if PBS was successfully completed with a 'C' or better both semesters) is only allowed with instructor/administrator approval.
- Attendance is very important to a student's success in this course.
- If the student does not have a computer, the instructor will make arrangements to check out a school computer.

Medical Interventions	Credit 1	11, 12
Course Name	Semester 1 & 2 (Year Long Class)	Grade Level

Course Description: Students investigate a variety of interventions involved in the prevention, diagnosis, and treatment of disease as they follow the lives of a fictitious family. Students explore how to 1) prevent and fight infection; 2) screen and evaluate the code in human DNA; 3) prevent, diagnose, and treat cancer; and 4) prevail when the organs of the body begin to fail. These scenarios expose students to the wide range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics and therapeutics. Class activities are heavily weighted in laboratory medicine techniques. Each family case scenario introduces multiple types of interventions and reinforces concepts learned in the previous two PLTW biomedical courses, as well as presenting new content, ranging from simple diagnostic tests to treatment of complex diseases and disorders providing a look at the past, present, and future of biomedical sciences. Lifestyle choices and preventive measures are emphasized throughout the course, as are the important roles scientific thinking and engineering design play in the development of interventions of the future. Students are also engaged in considering and debating the bioethics of applying new scientific knowledge and capabilities and related health policy, such as in genetic engineering.

Students should be taking or plan to take higher level math and science for four years of high school. Students should be in the top ⅓ of their class. Students should be interested in pursuing a degree in science, math, or technology -- i.e., in research, laboratory medicine, or clinical medicine. Other important traits are: self-motivation, strong work ethic, good time management, interest in medicine, and enjoyment in finding creative solutions to problems.

Essential Requirements:

- Demonstrate competent to proficient math skills (including algebra, and graphing and analyzing data), writing, and reading skills.
- Demonstrate an ability to follow written and verbal instructions.
- Demonstrate an ability to work well in small groups with peers.
- Demonstrate an ability to work independently and be self-motivated, including appropriate use of time provided in class, as well as managing time and workflow outside of school hours to complete assigned tasks in the time allotted.
- Demonstrate an ability to follow lab safety protocols.
- Demonstrate an ability to perform basic computer skills.
- **NOTE: Attendance is required and documented.**

Strongly recommend access to internet and computer outside of class.

In the event of over enrollment, **first criteria** for consideration shall be current daily attendance, followed by performance in prior biomedical science courses.

ONE – HOUR CLASS
STUDENTS MAY ENROLL IN THE FALL ONLY

Prerequisite Courses:

- Successful completion of PBS and HBS with a "C" or better both semesters of both classes or instructor/administrator approval.
- Successful completion of biology.
- Successful completion of grade-level appropriate math class.
- Successful completion of all previous years of English class.

Applies toward graduation requirements of: 1 Career Technical Education credit

- Concurrent enrollment in HBS and MI (if PBS was successfully completed with a "C" or better both semesters) is only allowed with instructor/administrator approval.
- Attendance is very important to a student's success in this course.
- Strongly recommended that students have a home computer and internet access.
- If the student does not have a computer, the instructor will make arrangements for student to be successful without having a computer available at home.

College Basic Human Biology	Credit 1 4 Credits @ City College MSU-B	11, 12
Course Name	**Semester 1 & 2 (Year Long Class)**	**Grade Level**

Course Description: Provides students with a basic understanding of human anatomy and physiology. Concepts of the body plan and homeostasis will be introduced. Students will also learn the basic structure, function, and interaction of the integumentary, skeletal, muscular, nervous, endocrine, blood, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems. The lab portion of the course helps students apply the knowledge base of structure and function of the human body organs and systems. This course is a dual credit course and with successful completion, four (4) college credits will be awarded at City College-MSU Billings. This course is the equivalent of BIOH 104 Basic Human Biology (3 credits) and BIOH 105 Basic Human Biology Lab (1 credit) at City College-MSU Billings. As such, students should anticipate and prepare for a rigorous pace of new concepts and medical terminology, with regular assessment processes through both semesters.

Essential Requirements:

- Demonstrate competent to proficient math (including algebra, and graphing and analyzing data), writing, and reading skills.
- Demonstrate an ability to follow written and verbal instructions.
- Demonstrate an ability to work well in small groups with peers.
- Demonstrate an ability to work independently and be self-motivated, including appropriate use of time provided in class, as well as managing time and workflow outside of school hours to study and complete assigned tasks in the time allotted.
- Demonstrate an ability to follow lab safety protocols.
- Demonstrate an ability to perform basic computer skills.
- **NOTE: Attendance is required and documented.**

In the event of over enrollment **first criteria** for consideration shall be current daily attendance followed by performance in prior science and/or biomedical science courses.

ONE-HOUR CLASS
STUDENTS MAY ENROLL IN THE FALL ONLY

Prerequisite Courses:

- Successful completion of grade-level appropriate Math classes.
- Successful completion of all previous years of English classes.
- Successful completion of prior science classes with grade of 'C' or better.

Applies toward graduation requirement of: 1 Career Technical Education Credit

- ❖ Attendance is very important to a student's success in this course.
- ❖ Strongly recommended that students have a home computer and internet access.

If the student does not have a computer, the instructor will make arrangements for student to be successful without having a computer available at home.

College Medical Terminology	Credit 1/2 3 Credits @ City College MSU-B	11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: This one-semester course introduces the student to the specialized language of the medical profession and builds a background vocabulary in this area using a word-building system which provides a solid foundation for understanding medical terms. Basic word-building concepts are taught with emphasis on spelling, pronunciation, and definitions.

This course is a dual credit course and with successful completion of the semester, 3 college credits will be awarded at City College MSU-Billings. As such, students should anticipate and prepare for a rigorous pace of new word parts and concepts, with regular assessment processes throughout the semester. This course is the equivalent of AHMS 144 Medical Terminology (3 credits) at City College-MSU Billings.

Essential Requirements:

- Demonstrate competent to proficient writing and reading skills.
- Demonstrate an ability to follow written and verbal instructions.
- Demonstrate an ability to work independently and be self-motivated, including appropriate use of time provided in class, as well as managing time and workflow outside of school hours to study and complete assigned tasks in the time allotted.
- Demonstrate an ability to perform basic computer skills.
- **NOTE: Attendance is required and documented.**

In the event of over-enrollment, first criteria for consideration shall be current daily attendance, followed by performance in prior science and/or biomedical science courses.

ONE HOUR CLASS

Prerequisite Courses:

- Successful completion of all previous years of English classes.
- Successful completion of grade-level appropriate Math classes.
- Successful completion of prior science and language classes with grade of 'C' or better highly recommended.

Applies toward graduation requirement of: 1 Career Technical Education Credit

*Attendance is very important to a student's success in this course.
*Strongly recommended that students have a home computer and internet access.
*If the student does not have a computer, the instructor will make arrangements for student to be successful without having a computer available at home.

Certified Nurse Assistant	Credit 1/2	11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description

Concepts and practices in basic skills for Nursing Assistants. Course includes basic medical terminology, basic human anatomy and physiology, and the aging process. Students will gain understanding and application of the skills required to address the needs of the chronically ill residents. This course will prepare students for state examinations required for a Certified Nursing Assistant Certificate. This course will include both classroom hours and practical application.

Course Topics

- Role and responsibility of the nurse aide in long term care
- Basic rights and needs
- Communication
- Resident's physical environment
- Personal care of the resident
- Resident safety and body mechanics
- Death and dying
- Nutrition and fluid balance
- Prevention and control of infection
- Personality and behavior
- Basic anatomy and physiology
- Meeting the needs of special residents
- Emergency care
- Effects of aging on the human body
- Common disease processes
- Measuring vital signs, intake and output, height and weights

In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

ONE HOUR CLASS

*Students will have to provide own transportation for training opportunities and requirements off campus.

Prerequisite Courses:

- Successful completion of Biology 1

Applies toward graduation requirements of: 1 Career Technical Education credit

Anatomy & Physiology
Applied Medicine (Med. Careers) **Credit 1** **12**

Course Name **Semester 1 or 2** **Grade Level**

Course Description: This course is a combination of the academic study of Human Anatomy and Physiology along with Applied Medicine. The Applied Medicine portion of the class provides student with hands-on experiences in hospital and clinical settings and exposure to over 50 health care professions. This course is a partnership with Billings Clinic, St. Vincent Healthcare, and RiverStone Health. Students must complete an application from their home schools for admittance into this course.

Essential Requirements:

- Strict adherence to HIPPA based confidentiality
- Adherence to hospital professional dress code
- Practice universal precautions
- Attendance to hospital rotations is mandatory
- Student must provide own transportation to hospital orientations and rotations
- Student must follow all hospital protocols and policies.

TWO – HOUR BLOCK

1ST OR 2ND SEMESTER – A.M. OR P.M. CLASS

Prerequisite Courses: Completion of 3 science credits. Must provide your own transportation. *Students may take this course concurrently with College Emergency Medical Technician.

Applies toward graduation requirements of: Anatomy/Physiology = 0.5 science credit; Applied Medicine = 0.5 Career Technical Education credit

College Emergency Medical Technician	Credit 1 (.5 each semester) 6 Credits @ City College MSU-B	12
Course Name	**Semester 1 & 2 (Full Year Course)**	**Grade Level**

Course Description: This course will prepare students for the state and national examinations required for Emergency Medical Technician certification, and will include both classroom hours and practical application. The course is designed for students desiring to perform emergency medical care. Students will learn to assess the seriousness of a patient's condition and the appropriate emergency medical techniques to stabilize the patient until hospital medical care can be received. The course covers theory and techniques; operational aspects of prehospital care; and the scope, responsibility, and safety of the EMT professional.

Essential Requirements for EMT Certification and College Credit:

- Students may not have more than 10 total absences throughout the course of the academic year
- Students must maintain a 75% minimum grade on all tests and quizzes
- Successful completion of the course requires a minimum of 10 hours of patient observation with an approved clinical supervisor
- BLS certification
- Strict adherence to HIPPA based confidentiality

In the event of over enrollment, **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

ONE – HOUR CLASS
STUDENTS MAY ENROLL IN THE FALL ONLY - SENIORS ONLY

Prerequisite Courses: Successful completion of Biology 1.

Suggested Prerequisites Courses: Principles of Biomedical Sciences, Human Body Systems, Medical Interventions, Medical Careers (Anatomy & Physiology & Applied Medicine) Human Anatomy & Physiology
*Students may take this course concurrently with Medical Careers.

Applies toward graduation requirements of: 1 Career Technical Education credit

Introduction to the Operating Room	Credit 1/2	11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: Provides students with a basic understanding of the career fields that may interact and contribute to patient care services in the realm of the operating room (OR) and related perioperative services. This one-semester course introduces the operating room-based career fields by discussing the history of surgery, and the operating room environment as a microsystem within the context of the larger hospital system and organization. The course considers the special needs of surgical patients and the relevant standards of conduct, communication and teamwork, safety standards, and biomedical science applied in caring for surgical patients. This introduction to the operating room provides an orientation to the various roles and functions within the perioperative areas of preoperative, intraoperative, and postoperative care—including, but not limited to, physicians (surgeon, anesthesiologist), nurses, perfusionists, anesthesia technicians, surgical technologists, physician assistants, and nurse first assistants.

Students should anticipate a rigorous pace of learning new concepts and team functions and interactions that will utilize both classroom and operating room simulation experience for training and assessment of performance progress through the semester.

Essential Requirements:

- Demonstrate competence or proficiency in math (including algebra, and graphing and analyzing data), writing, and reading skills.
- Demonstrate an ability to follow written and verbal instructions.
- Demonstrate an ability to work well in small groups with peers.
- Demonstrate an ability to work independently and be self-motivated, including appropriate use of time provided in class, as well as managing time and workflow outside of school hours to complete assigned tasks in the time allotted.
- Demonstrate an ability to follow lab and OR safety protocols.
- Demonstrate an ability to perform basic computer skills.
- Successful completion of one or more of the following is recommended as familiarity with anatomy and physiology is helpful for studying surgical care and the surgical specialities.
    - Principles of Biomedical Science
    - Human Body Systems
    - Human Biology
    - Anatomy & Physiology
- **NOTE: Attendance is required and documented.**

In the event of over-enrollment, first criteria for consideration shall be current daily attendance followed by performance in prior science and/or biomedical science courses.

ONE-HOUR CLASS

Prerequisite Courses:

- Successful completion of grade-level appropriate Math classes.
- Successful completion of all previous years of English classes .
- Successful completion of prior science classes with grade of 'C' or better.

Applies toward graduation requirement of: 1 Career Technical Education Credit

- ❖ Attendance is very important to a student's success in this course.
- ❖ It is strongly recommended that students have a home computer and internet access.
- ❖ If the student does not have a computer, the instructor will make arrangements for student to be successful without having a computer available at home.

Physics 1	Credit 1	10, 11, 12
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: Physics 1 is a full year laboratory science elective. In this course, we use project based learning to introduce the application of simple mathematics (algebra and trigonometry) into the concepts of Motion (1- and 2- dimensional), Newton's Laws, Circular Motion and Gravitation, Fluids and Buoyancy, Energy, Momentum, and Waves. Students will be working both individually and in collaborative groups to accomplish tasks. Students will be required to present to the whole class and small groups at various times throughout the year.

Prerequisite Courses: Students should have completed Algebra 2 (or they must be concurrently enrolled in Algebra 2). It is highly recommended that the student has earned a C or higher in the year-long Biology and/or Physical Science (or other lab based science course). It is highly recommended that the student has earned a C or higher in Algebra 1, Geometry, and Algebra 2 courses.

Applies toward graduation requirement of: 1 Physical Science credit or 7 elective credits.

First Year
Electronics 1 / Electric 1
(1st Semester - 2 Hour Class)
Electronics 2 / Electric 2

(2nd Semester - 2 Hour Class)	Credit 1 (each semester)	11, 12
Course Name	**Semester 1 & 2 (Year Long Class)**	**Grade Level**

Course Description: This program prepares students with core knowledge and experience for a variety of careers related to the electrical and electronics fields. Students will learn through study and hands-on activities the principles and applications of electricity. The theory, design and testing of basic circuits and components is presented in the classroom and applied in the lab setting with 40-60% hands-on activities and labs. Students learn low and high voltage wiring principles and practices. These students have been involved in the wiring of the Career Center house project since 1975 and also installed the data, telephone and cable TV systems in the Billings high schools. Successful completion of the program has helped students to pursue career pathways, such as developing into; electricians, electronic technicians and electrical engineers.

Units of Study:

- Math laws that help to control and analyze electronic circuits
- Electron theory and behavior of electricity
- Circuits design and behavior of components
- Measuring and analyzing circuit behavior
- Direct and alternating currents
- Mathematical calculations of electronics
- Semiconductor applications and operations
- Safe practices, codes, standards and designs in electrical circuitry

Essential Requirements

- Solid understanding of basic algebra

In the event of over enrollment the **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

Recommend: Highly recommend completion of Algebra 2 (or current enrollment in Algebra 2).

TWO – HOUR BLOCK / YEAR LONG CLASS
STUDENTS MAY ENROLL IN FALL ONLY

Prerequisite Courses: Students should have had at least a "C" in Algebra 1. Algebra 2 is recommended.

Applies toward graduation requirements of: 1 Career Technical Education credit

Second Year
Electrical Technician 1/Electronic
Communication 1- 1st Semester
Electrical Technician 2/Electronic
Communication 2-2nd Semester | **Credit 1 (each semester)** | **11, 12**

Course Name | **Semester 1 & 2 (Full Year Course)** | **Grade Level**

Course Description: This is a continuation of the first-year program. Students will expand their studies into advanced electronics and electrical applications. Industry standard training systems will be used for advanced circuit analysis with emphasis placed upon AC systems, semiconductors, digital circuits, and advanced analysis techniques. Students will also pursue study of their own personal interest in electronics as approved by the instructor.

Units of Study:

- Advanced circuit analysis and design
- Circuit design and fabrication
- Semiconductor applications
- Pre-engineering electronics practices

Essential Requirements

- Completion of the first-year program with a "B" minimum grade
- Solid understanding of basic algebra

In the event of over enrollment the **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

Recommended: Algebra 2

TWO – HOUR BLOCK / YEAR LONG CLASS
STUDENTS MAY ENROLL IN FALL ONLY

Prerequisite Courses: Students must have completed the first year program (semesters 1& 2) with at least a "B" and be accepted into the program by the instructor/administrator.

Applies toward graduation requirements of: 1 Career Technical Education credit

Urban Agriculture	Credit 1 (each semester)	11, 12
Course Name	**Semester 1 and/or 2**	**Grade Level**

Course Description: Urban Agriculture is a capstone course designed to culminate students' experiences in agriculture based on the pathway of study they pursued. Projects and problems are based on practical applications and designed to develop and improve employability skills of students. Students will further enhance research, critical thinking, and teamwork skills as they expand on content knowledge from previous agriculture courses..

Students will understand specific connections between the course and Supervised Agricultural Experience and FFA components of agricultural education programs. Students will improve investigative, experimental, and communication skills. As a result of the course, students will develop skills in scientific communications about problems, research, and solutions. The knowledge and skills students develop will be valuable for college and career aspirations.

Essential Requirements:

- Problems & Solutions
- Collecting & Analyzing Data
- Communicating Results
- Designing & Building
- Demonstrate knowledge of environmentally safe practices
- Identify & apply pest management practices
- Community & School projects

In the event of over enrollment, **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

TWO – HOUR BLOCK

Prerequisite Courses: None

Note: Enrollment priority will be given to students who have successfully completed; AFNR, Principles of Plant Science or Animal Science.

Applies toward graduation requirements of: 1 Career Technical Education credit

Introduction to Agriculture, Food, & Natural Resources (AFNR)	Credit 1	9,10, 11, 12
Course Name	**Semester 1 & 2 (Year Long Class)**	**Grade Level**

Course Description: *Introduction to Agriculture, Food, and Natural Resources (AFNR)* introduces students to agricultural opportunities and the pathways of study in agriculture. Science, mathematics, reading, and writing components are woven in the context of agriculture and students will use the introductory skills and knowledge developed in this course throughout the CASE curriculum. Throughout the course are activities to develop and improve employability skills of students through practical applications. Students explore career and post-secondary opportunities in each area of the course.

Students participating in the *Introduction to Agriculture, Food, and Natural Resources* course experience hands-on activities, projects, and problems. Student experiences involve the study of communication, the science of agriculture, plants, animals, natural resources, and agricultural mechanics. While surveying the opportunities available in agriculture and natural resources, students learn to solve problems, conduct research, analyze data, work in teams, and take responsibility for their work, actions, and learning. For example, students work in groups to determine the efficiency and environmental impacts of fuel sources in a practical learning exercise.

The *Introduction to Agriculture, food, and Natural Resources* course serves as the introductory course within the CASE Program of Study. The course is structured to enable all students to experience an overview of the fields of agricultural science and natural resources so that students may continue through a sequence of courses through high school. The knowledge and skills students develop will be used in future courses within the CASE program.

In addition, students will understand specific connections between their lessons and Supervised Agricultural Experience and FFA components that are important for the development of an informed agricultural education student. Students investigate, experiment, and learn about documenting a project, solving problems, and communicating their solutions to their peers and members of the professional community.

Essential Requirements: The introduction to Agriculture, Food, and Natural Resources course includes:

- Agricultural Education - Agriculture, FFA, and SAE
- Communication Methods
- Science Processes
- Natural Resources
- Plants and Animals
- Agricultural Power and Technology

In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

ONE HOUR CLASS:
STUDENT MAY ENROLL IN FALL ONLY

Prerequisite Courses: None

Recommended:

- Successful completion of grade level appropriate science class
- Successful completion of grade-level appropriate math class
- Successful completion of all previous years of English class

***Applies toward graduation requirements of:** 1 Career Technical Education credit

Principles of Plant Science	Credit 1	10, 11, 12
Course Name	**Semester 1 & 2 (Year Long Class)**	**Grade Level**

Course Description: Principles of Plant Science is a foundation-level course teaching students the form and function of plant systems. Student experiences include the study of plant anatomy and physiology, classification, and the fundamentals of production and harvesting.

Students learn how to apply scientific knowledge and skills to use plants effectively for agricultural and horticultural production. Students discover the value of plant production and its impact on the individual, the local, and the global economy.

Students will work on major projects and problems similar to those that plant science specialists, such as horticulturalists, agronomists, greenhouse and nursery managers, and plant research specialists, face in their respective careers. Students will understand specific connections between the course's lesson and Supervised Agricultural Experience and FFA components of agricultural education programs. Students will improve investigative, experimental and communication skills.

In addition, students will understand specific connections between plant science lessons and Supervised Agricultural Experience and FFA components that are important for the development of an informed agricultural education student. Students will investigate, experiment, and learn about documenting a project, solving problems, and communicating their solutions to their peers and members of the professional community.

Essential Requirements: Principles of Plant Science

- Soils
- Anatomy and Physiology
- Taxonomy
- Growing Environment
- Reproduction
- Pest and Disease Management
- Crop Production and Marketing

In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

ONE HOUR CLASS:
STUDENT MAY ENROLL IN FALL ONLY

Prerequisite Courses: 10th graders must have successful completion of Intro to Ag, Food and Natural Resources (AFNR), with passing grades and earning credit both semesters or instructor/administrator approval. No prerequisite courses required for 11th or 12th grade students.
Note: Enrollment priority will be given to students who have successfully completed; AFNR or Principles of Animal Science.

Recommended:

- Successful completion of grade-level appropriate science class.
- Successful completion of grade-level appropriate math class.
- Successful completion of all previous years of English class.

***Applies toward graduation requirements of:** 1 Career Technical Education credit

Principles of Animal Science	Credit 1	10, 11, 12
Course Name	**Semester 1 & 2 (Year Long Class)**	**Grade Level**

Course Description: Principles of Animal Science is a foundation-level course engaging students in hands-on laboratories and activities to explore the world of animal agriculture. During the course, students develop a comprehensive Producer's Management Guide for an animal of their choice. Student experiences involve the study of animal anatomy, physiology, behavior, nutrition, reproduction, health, selection, and marketing. Throughout the course, students consider perceptions and preferences of individuals within local, regional, and world markets.

Students investigate, experiment, and learn about documenting a project, solving problems, and communicating their solutions to their peers and members of the professional community. Students will explore hands-on projects and activities to learn the characteristics of animal science and work on major projects and problems similar to those that animal science specialists, such as veterinarians, zoologists, livestock producers, and industry personnel, face in their respective careers.

In addition, students will understand specific connections between animal science lessons and Supervised Agricultural Experience and FFA components that are important for the development of an informed agricultural education student. Students will investigate, experiment, and learn about documenting a project, solving problems, and communicating their solutions to their peers and members of the professional community.

Essential Requirements: Principles of Animal Science

- **History and Use of Animals**
- **Animal Handling and Safety**
- **Cells and Tissues**
- **Animal Nutrition**
- **Animal Reproduction**
- **Genetics**
- **Animal Health**
- **Animal Products, Selection, and Marketing**

In the event of over enrollment first criteria for consideration shall be current daily attendance. Attendance is required and documented.

ONE HOUR CLASS:
STUDENT MAY ENROLL IN FALL ONLY

Prerequisite Courses: 10th graders must have successful completion of Intro to Ag, Food and Natural Resources (AFNR), with passing grades and earning credit both semesters or instructor/administrator approval. No prerequisites for 11th or 12th grade students.
Note: Enrollment priority will be given to students who have successfully completed; AFNR or Principles of Plant Science.

Recommended:
- Successful completion of grade-level appropriate science class.
- Successful completion of grade-level appropriate math class.
- Successful completion of all previous years of English class.

***Applies toward graduation requirements of:** 1 Career Technical Education credit

Web Page 1	Credits 1/2	10, 11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: Web Page 1 will provide students with the necessary skills to design, create, and maintain functional web pages. The class will cover HTML 5 (Hyper Text Markup Language), CSS3 (Cascading Style Sheets), Adobe Dreamweaver, Adobe Photoshop, and the basic principles of Graphic Design. The class will focus on fundamental methods, standards, and techniques for creating and maintaining basic web pages using HTML5 and CSS3.

Other key elements to be taught:

- Use and function of the internet
- Website evaluation based on design and function
- Website structure and effective navigation
- All aspects of design and function are compared to industry standards

In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

ONE – HOUR CLASS

Prerequisite Courses: 10th grade must have successful completion of Exploring Visual Media. No prerequisite courses are required for 11th and 12th grade students.

Applies toward graduation requirements of: 1 Career Technical Education credit

Web Page 2	Credits 1/2	11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: This course further explores and develops skills in web design and development. This course will focus on working with clients, as each eligible student will work with a client and a real world job environment. An emphasis will be placed on the "full package" design and build from domain name to the final upload. Students will work together for art direction and evaluation to create a quality of design that mirrors the industry.

Other key elements to be taught:

- Skills, such as interview and responding to feedback
- Web design geared towards the client
- Re-design and modification based on client specifications
- Design solutions including web site, domain names, hosting and email

In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

ONE – HOUR CLASS

Prerequisite Courses: Requires a grade of "C" or higher in Web Page 1 or administrative approval

Applies toward graduation requirements of: 1 Career Technical Education credit

College Introduction to Web Design and Programming	Credits 1/2 3 Credits @ City College-MSU-B	11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: College Introduction to Web Design and Programming will provide students with the necessary skills to design, create, and maintain functional web pages. The class will cover HTML 5 (Hyper Text Markup Language), CSS3 (Cascading Style Sheets), Adobe Dreamweaver, Adobe Photoshop and the basic principles of Graphic Design. The class will focus on fundamental methods, standards, and techniques for creating and maintaining basic web pages using HTML5 and CSS3.

Other key elements to be taught:

- Use and function of the internet
- Website evaluation based on design and function
- Website structure and effective navigation
- All aspects of design and function are compared to industry standards

In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

ONE – HOUR CLASS

Prerequisite Courses: None

Applies toward graduation requirements of: 1 Career Technical Education credit

Animation Lab 1	Credits 1/2	10, 11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: This exciting course introduces students to the world of animation, moving from traditional methods and terminology (including anatomy, basic perspective and flipbooks) to cutting edge techniques using Abode Animate software to create and animate 2 dimensional computer based graphics. There is a strong emphasis placed on drawing, both character and environment.

Other Key Elements:

- Flash animation designed and developed specifically for the web
- Use of emerging technology
- Creation of storyboards and outlines
- Creative thinking with technology

In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

ONE – HOUR CLASS

✓ **Students are assessed a lab fee for materials which must be paid before the third week of class.**

Prerequisite Courses: Recommend: 10th grade must have successful completion of Exploring Visual Media. No prerequisite courses required for 11th and 12th grade students. Art 1 and basic drawing skills (which should include knowledge of anatomy and perspective)

Applies toward graduation requirements of: 1 Career Technical Education credit or 1 Visual/Performing Arts

Animation Lab II	Credits 1/2	11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: This course builds on previously learned animation techniques and allows students to take their creativity to the next level in multiple animations. Additionally, students will continue to work on their ability to draw convincing poses, expressions, character designs, thumbnails, and storyboards.

Other Key Elements:

- Advanced techniques in Flash, After Effects, and 3D programs
- Use of emerging technology

In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

✓ **Students are assessed a lab fee for materials which must be paid before the third week of class.**

ONE-HOUR CLASS

Prerequisite Courses: Requires a grade of "C" or higher in Animation Lab 1
Applies toward graduation requirements of: 1 Career Technical Education credit or 1 Visual/Performing Arts

Graphics

Print Photo (Photography)	**Credits 1**	**11, 12**
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: This course introduces and explores the Graphic Art of Photography. It will also provide students with an introduction to visual concepts, basic image capture, and camera functions using digital cameras. Students will learn to shoot, develop, crop, and mount their photographs as well as specific professional camera and editing techniques. Students will also have the opportunity to begin exploring the cutting edge field of digital photography, using the latest Adobe software available in the industry. This course consists of lecture, textbook assignments as well as darkroom and studio projects. Field trips to local businesses and location shots enhance the hands on learning experience.

Essential Requirements:
Students will demonstrate the following:

- Pinhole camera construction and usage
- Basic understanding and use of software basics for photographic imaging and digital printing
- Dry mounting and presentation techniques
- Basic camera functions in DSLR

In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

Students are assessed a lab fee for materials which must be paid before the third week of class.

TWO – HOUR BLOCK:
Offered a.m. and p.m.

Prerequisite: Preferred Art 1 or an Art Portfolio

Applies toward graduation requirements of: 1 Career Technical Education credit or 1 Visual/Performing Arts

Design Advertising Design Layout	Credits 1	11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: This challenging, hands-on course explores the art-related field of Graphic Design, and includes illustration, advertising design & layout; computer assisted design, and design theory. During the semester, students are exposed both to traditional and cutting edge techniques and procedures, and have the opportunity to learn and create in a productive, supportive environment. Additionally, Design students will hear from a variety of professionals working in all aspects of the industry, and will spend time exploring the wide array of graphics related careers available today. Students successfully completing class will be able to step into and perform capably in a number of entry-level jobs in the graphic design industry.

Essential Requirements:

Students successfully completing this class will:

- Demonstrate a solid understanding of both the theory and application of the principles and elements of design.
- Demonstrate basic knowledge of typography and composition.
- Demonstrate basic art techniques.
- Demonstrate basic knowledge regarding the history of Graphic Design, including knowledge of a variety of well-known designers and artists.
- Demonstrate introductory knowledge of Adobe Illustrator, the industry's leading design software.

In the event of over **enrollment first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

Students must have a "C" or better to move into Digital Illustration or Graphics/Print Photo from Design Advertising/Design Layout or Instructor/Administrator approval. Students are assessed a lab fee for materials which must be paid before the third week of class.

TWO – HOUR BLOCK:
Offered a.m. and p.m.

Prerequisite: 1 credit of Art (2 art classes) preferred

Applies toward graduation requirements of: 1 Career Technical Education credit or 1 Visual/Performing Arts

Digital Photo	Credits 1/2	11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: This course encourages students to further develop the graphic communication and design skills learned in previous classes, and involves practical lessons dealing with image manipulation. Students will enhance their skills in photography, composition, layout & design, and through the use of Adobe Software's industry standard Creative Suite. In this class, there is a major emphasis on not only learning how to use Adobe Photoshop, but also on how to apply that knowledge in building a professional quality portfolio. Occasionally, community design/graphics projects are brought in and completed in-house by the class members.

Students successfully completing this class will be able to step into and perform capably in a number of above entry-level jobs in the Graphic Arts industry.

Essential Requirements:

Students successfully completing this class will:

- Demonstrate knowledge and application of all aspects of Adobe Photoshop/Lightroom through class lessons and self-directed work.
- Demonstrate Photoshop skills through a variety of relevant assignments, including business card and cd cover design, photo retouching, and photo manipulation.

In the event of over enrollment, **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

- ➢ **It is recommended students who successfully complete this class continue in Design and Layout.**
- ➢ **Students are assessed a lab fee for materials, which must be paid before the third week of class.**

ONE – HOUR CLASS
Offered a.m. fall semester and p.m. spring semester

Prerequisite: Recommended first-year Graphics or several art classes

Applies toward graduation requirements of: 1 Career Technical Education credit or 1 Visual/Performing Arts

Digital Illustration	Credits 1/2	11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: This course encourages students to further develop the graphic communication and design skills learned in previous classes. Students will enhance their skills in composition, layout and design through the use of Adobe Software's industry standard Creative Suite. In this class, there is major emphasis on not only learning *how* to use Adobe Illustrator, but also how to apply that knowledge in building a professional quality portfolio. Occasionally, community design/graphics projects are brought in and completed in-house by class members. Students successfully completing class will be able to step into and perform capably in a number of entry-level jobs in the graphic design industry.

Essential Requirements:

Students successfully completing this class will:

- Demonstrate a solid understanding of both the theory and application of the principles and elements of design.
- Demonstrate basic knowledge of typography and composition.
- Demonstrate basic art techniques.
- Demonstrate basic knowledge regarding the history of Digital Design, including knowledge of a variety of well-known designers and artists.
- Demonstrate knowledge of Adobe Illustrator, the industry's leading design software, including: tool usage, and intermediate skill.

In the event of over enrollment, **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

- ➢ **It is recommended that students who successfully complete this class and have also completed Graphics/Print Photo continue with Digital Photo.**
- ➢ **Students are assessed a lab fee for materials, which must be paid before the third week of class.**

ONE – HOUR CLASS
Offered p.m. Fall Semester, and a.m. Spring Semester

Prerequisite: Students must earn a "C" or better in Design Advertising/Design Layout

Applies toward graduation requirements of: 1 Career Technical Education credit or 1 Visual/Performing Arts

Exploring Visual Media	Credit 1/2	10, 11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: Exploring Visual Media opens the pathway to an exciting world of graphics-related technology and career options.

Interested students will engage in an intensive, semester long tour through the fields of visually-related media.

Additionally, students taking **Exploring Visual Media** will have the opportunity to learn about visually related career options in a variety of ways, including field trips, guest speakers, video presentations, and traditional, pen/paper based research.

Students leaving the class will be well-equipped to continue their exploration in any of the Career Center's other graphics based offerings.

Essential Requirements:

- Students will explore the following graphics-linked disciplines:
    - Graphic Design: Students will learn the basics of graphic design, including composition, color theory, typography and the principles of design. Students will create a variety of work based upon the information they learn.
    - Photography: Students will learn the principles of photography and will learn how to build their very own working pinhole cameras. They will develop their own film and print their own pictures before moving on to cutting-edge, digitally based photography.
    - Animation: Students will explore the history of animation, as well as the principles behind it. They will create their own paper-based animations and be briefly introduced to the Adobe's "Animate" software.
    - Web Design: During this brief introduction to the world of web design, students will learn about the principles necessary to designing an effective webpage, and will take a look at "coding" the most effective way of creating web-based content.

In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

ONE - HOUR CLASS

Students are assessed a lab fee for materials which must be paid before the third week of class.

Prerequisite Courses: None

Applies toward graduation requirements of: 1 Career Technical Education credit or 1 Visual/Performing Art

AP 2-D Art and Design (Photography)	Credit 1	11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description:
AP 2-D Art and Design in Photography. This course introduces and develops skills that will be used in developing a 2D Art portfolio. It will also provide students with an introduction to visual concepts, basic image capture, and camera functions using digital cameras and studio lighting. Students will learn to shoot, develop, crop and mount their photographs as well as specific professional camera and editing techniques. Students will also have the opportunity to begin exploring the cutting edge field of digital photography, using the latest Adobe software available in the industry. This course consists of lecture, textbook assignments as well as darkroom and studio projects. Field trips to local businesses and location shots enhance the hands-on learning experience.

Essential Requirements:
Students will demonstrate and document the following:

- Pinhole camera construction and usage
- Basic understanding and use of software basics for photographic imaging and digital printing
- Dry mounting and presentation techniques
- Basic camera functions in DSLR
- Students will develop a 2D art portfolio to submit for the AP Portfolio Exams

TWO HOUR BLOCK/SEMESTER CLASS

Preferred: Art 1 or an Art Portfolio

Applies toward graduation requirements of: 1 Visual/Performing Arts

AP English Language & Composition	Credit 1	11
Course Name	**Semester 1 & 2**	**Grade Level**

Per the *AP English Language and Composition Course Overview*, "The course cultivates reading and writing skills that students need for college success and for intellectually responsible civic engagement. The course guides students in becoming curious, critical, and responsive readers of diverse texts, becoming flexible, reflective writers of texts addressed to diverse audiences for diverse purposes...The reading and writing students do in the course deepen and expand their understanding of various formal and informal genres. Reading and writing activities in the course also deepen students' knowledge and control of formal conventions of written language."

This course focuses on rhetorical analysis and argument and is structured around the global idea of Ethics and Morality. The texts chosen for the course will be predominantly nonfiction. The reading selections will teach students to think and read critically and will also serve as models of academic and professional writing. This course may require purchase of some paperback materials and does require the completion of a summer reading assignment as per instructor's discretion.

Prerequisite Courses: None

Applies toward graduation requirements of: 4 English credits

College Algebra (Math 121)	Credits 1/2	11, 12
Course Name	**Semester 1**	**Grade Level**

Course Description: College Algebra is a rigorous course that analyzes and interprets the behavior and nature of functions including linear, quadratic, polynomial, rational, exponential, logarithmic, power, absolute value, and piecewise-defined functions. Additional topics include systems of equations, matrices, and making decisions using probability. This course qualifies for Dual Enrollment Credit through Montana State University-Billings. Students must pass entrance requirements and pay course fees for MATH 121.

Prerequisite: Algebra 2 and qualifying test score of a 22+ on the ACT Math Test or the Accuplacer Exam.

Applies toward graduation requirements of: 2 Math credits

College Technical Math	Credits 1/2 3 Credits @ City College-MSU-B	11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: Applies math to problems drawn from diverse occupational fields. In addition to a review of operations on rational numbers, the topics of measurement, percent, proportion and variation, applications of algebra to the extent of solving quadratic equations, and applications of plane and solid figure geometry are developed for use in a trade of industrial setting. Course may serve as a prerequisite to M 114, but does not satisfy the prerequisite of any other math courses. Credits apply to graduation but do not fulfill General Education requirements. City College-MSU-B credit (3 credits) may be awarded with proficiency and a passing grade in the course or the student may have to demonstrate proficiency in the course and pass a written comprehensive exam. Please contact the Career Center Counselor for a clarification of the information.

In the event of over enrollment **first criteria** for considerations hall be current daily attendance. Attendance is required and documented.

Prerequisite Course: Completion of Geometry/Acceptable score on the Accuplacer Exam and/or ACT/SAT Exams.

Applies toward graduation requirements of: 2 Mathematics credits or 7 Elective Credits

College Extended Technical Math	Credits 1/2 3 Credits @ City College-MSU-B	11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: This course applies math to problems drawn from diverse occupational fields. The course provides for the study of measurement, algebra, geometry, and trigonometry as needed to solve mathematical applications in a trade or technical work environment. Technical Math is a course designed for students who are considering going into a vocational or technical career. This class is a mixture of math skills from a variety of mathematical principles that focus strongly on the application of these skills to solve problems drawn from diverse occupational fields. The majority of the class time will be spent on integrating a variety of technical terms and tools to solve mathematically related problems that are common to real life workplace situations. An example of what a problem in this course may look like is: Find how many horsepower a motor would receive if it is 80% efficient with a 6.20 horsepower output.

City College-MSU-B credit (3 credits) may be awarded with proficiency and a passing grade in the course or the student may have to demonstrate proficiency in the course and pass a written comprehensive exam. Please contact the Career Center Counselor for a clarification of the information. M114 Extended Technical Math is a 3 credit class that is required for many City College MSU-B Associate of Applied Science degrees.

In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

Prerequisite Course: Completion of Geometry/Acceptable score on the Accuplacer Exam and/or ACT/SAT Exams.

Applies toward graduation requirements of: 2 Mathematics credits or 7 Elective credits.

College Introduction to Statistics	Credit 1/2	11, 12
Course Name	**Semester 2**	**Grade Level**

Course Description: College Introduction to Statistics covers descriptive techniques, probability distributions, and statistical inference of one and two sample tests and associated confidence intervals for means and proportions and linear regression. Introduces statistical analysis using technology. This course qualifies for Dual Enrollment Credit through Montana State University-Billings. Students must pass entrance requirements and pay course fees for STAT 216, Introduction to Statistics, 4 University Credits.

Prerequisite Course: Algebra 2 and qualifying test score on the ACT Math Test or on the Accuplacer Exam.

Applies toward graduation requirements of: 2 Math credits or 7 Elective credits

English 4	Credits 1	
Tech Writing	3 Credits @ City College-MSU-B	12
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: This course covers the Billings Public Schools English 4 curriculum/essential requirements and introduces the student to the creation and evaluation of several kinds of written and oral technical communication. It is a dual enrollment course worth three credits and is the equivalent to WRIT 121 offered at City College at MSU-Billings.

In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

Prerequisite Course: Successful Completion of English 3
Qualifying score on either the Accuplacer or the ACT

Applies toward graduation requirements of: 4 English credits

College Writing/English 4	Credit 1 3 Credits@City College/MSU-B and MSU-B	12
Course Name	**Semester 1 & 2**	**Grade Level**

Course Description: This course covers the Billings Public Schools English 4 curriculum and integrates and provides instruction in writing competencies expected of college students. It pays special attention to writing as a problem-solving process, patterns of organization in personal and informative writing, and logical thinking and style in argumentative/persuasive writing. Students are immersed in the writer's workshop classroom model through writing and responding to writing (their own and from other authors) on a daily basis. It is the equivalent to Writing 101 which is offered at City College at MSU-Billings and MSU-Billings. This is a concurrent enrollment course and students will be required to test into it in order to receive college credit. Other requirements may apply. Please contact your counselor for additional information.

In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

City College/MSU Billings and MSU Billings: 3 credits in WRIT 101 will be issued to students who pass the College Writing/English 4 class and complete all WRIT 101 competencies.

Prerequisite Course: Successful completion of English 3
Qualifying score on either the Accuplacer or the ACT

Applies toward graduation requirements of: 4 English credits

College American History 1	Credits 1/2 3 Credits @ MSU-Billings	11
Course Name	**Semester 1** ***To be taken with College American History 2** **2nd Semester (Full Year Course)**	**Grade Level**

Course Description: Surveys American history from the establishment of the colonies to the end of the Reconstruction period after the Civil War. Includes such topics as the English political and cultural heritage, independence, creation of the Constitution, early national period, increasing democracy, economic problems, manifest destiny, slavery, sectionalism, disunion, war, and reunion

This course is the equivalent of HSTA 101 American History 1 (3 credits) at Montana State University-Billings.

Prerequisite Courses: None

Applies toward graduation requirements of: 1 United States History credit

College American History 2	Credits 1/2 3 Credits @ MSU-Billings	11
Course Name	**Semester 2** ***To be taken with College American History 1** **1st Semester (Full Year Course)**	**Grade Level**

Course Description: Surveys the political, economic, and social development of the U.S. since Reconstruction. Deals with industrialization and the agrarian reaction, Progressive Era, U.S. reaction to World War I, 1920's, Depression and the New Deal, background to involvement in World War II, Cold War Leadership, (including Korea and Vietnam), and the domestic changes since World War II.

This course is the equivalent of HSTA 102 American History 2 (3 credits) at Montana State University-Billings.

Prerequisite Courses: None

Applies toward graduation requirements of: 1 United States History credit

College American Government	Credits 1/2 3 Credits @ MSU-B	12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: Covers the American Political System relative to central government and institutions. Attention is given to concepts, organizations and functions with emphasis on the political, governmental and democratic processes and problems, including the role of individual and group relationships. Provides a perspective and background for further study in Political Science. Please see individual school's syllabus for additional topics. Students must meet entrance requirements and pay course fees.

City College/MSU-Billings: 3 credits in PSCI 210 Introduction to American Government will be issued to students who pass all competencies.

Prerequisite Course: Qualifying score on the ACT or on the Accuplacer Exam.

Applies toward graduation requirement of: ½ United States Government

College Intro to Public Speaking	Credits 1/2 3 Credits @ MSU-Billings	11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

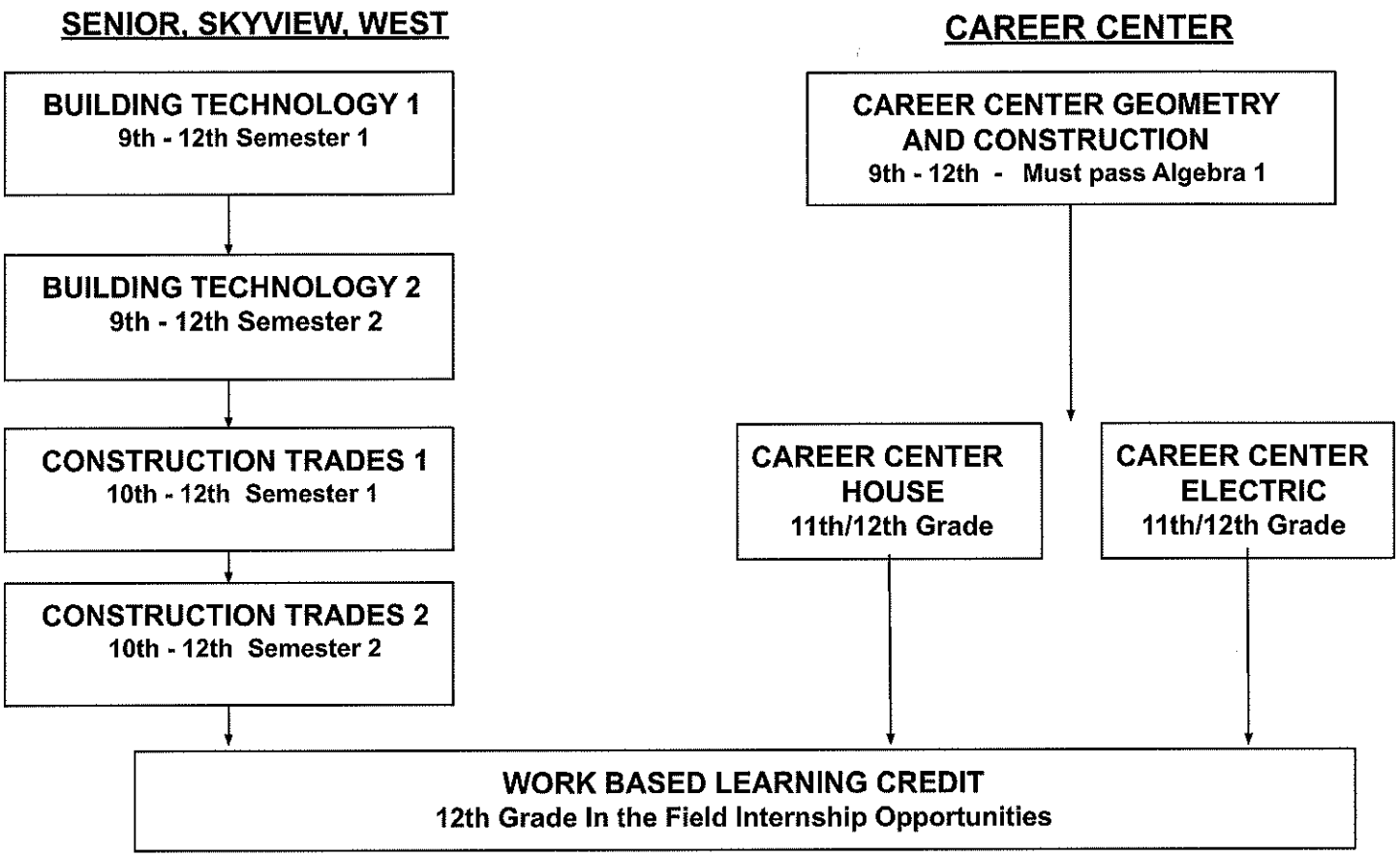
Course Description: Develops the student's speaking abilities. Students acquire an understanding of basic rhetorical theory and its application in a variety of speech situations. Listening, speaking, and critiquing abilities are emphasized. This course addresses the following topics: speech preparation and delivery, forming and fielding questions, audience analysis, listening skills, critiquing and speaker anxiety.

This course is the equivalent of COMX 111 Introduction to Public Speaking-(3 Credits) at MSU-Billings

Prerequisite Courses: None

Applies toward graduation requirements of: ½ Elective Credit

BPS CONSTRUCTION PATHWAYS



*Construction
*Electrical
*Plumbing

*HVAC
*Concrete/Masonry
*Design & Drafting

Technical Geometry Geometry in Construction	Credits 1 (½ Math-½ Career Technical Education each semester	9, 10, 11
Course Name	**Semester 1 & 2 (Full Year Course)**	**Grade Level**

Course Description: This course is designed to show the relevance of Geometry through a variety of practical applications related to but not limited to the construction industries. Students will be: participating in hand-on activities, working in a classroom & shop setting, participating in the construction of a house, and investigating business components in construction and related industries. Students who are interested in architecture, interior design, engineering, construction management, drafting, building trades (electrical, plumbing, etc.) as well as all aspects of manufacturing would benefit from this course. The objectives of this course are to promote academic rigor and real world relevance by having students solve multi-step problems, engage in math concepts that appear in different phases of construction and work in a team setting.

Essential Requirements:

- Students will participate in all aspects of safety, related to construction and manufacturing industries.
- Students will work in shop and construction site environments.
- Students will successfully complete the Geometry requirements as indicated in the All Billings Curriculum.

In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

TWO – HOUR BLOCK / YEAR LONG CLASS
FALL ENROLLMENT ONLY

Prerequisite Courses: Algebra 1 with a "C" grade or better

Applies toward graduation requirements of: 2 Math credits and 1 Career Technical Education credit

Construction Fundamentals 1
Carpentry 1
Construction Technique 1

Credits 1 1/2
First Year - Semester 1

11, 12

Course Name | **Semester 1** | **Grade Level**

Course Description: First year house construction students will work hands-on in the construction of this year's student built house. Students will develop skills and valuable construction knowledge in the first phases of the building construction trades. Students will learn the dynamics of a real residential house construction site. Students will receive on the job training as they learn the trades and experience the work ethics of residential construction.

Essential Requirements:

- Students will complete: framing, stairs, roofing, exterior window and door installation, soffit and fascia, heating and cooling (with professionals), plumbing (with professionals), insulation, drywall hanging, drywall perfataping.
- Ability to work safely, independently and as part of a team, and without constant supervision are critical to this class.

*Students will be working indoors and outdoors in temperatures ranging from 20 to 100 degrees.

In the event of over enrollment, **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

THREE – HOUR BLOCK - NO EXCEPTIONS!

Prerequisite Courses: None

Recommended courses: Building Tech 1 pathway (Building Tech 1, 2, Construction Trades 1, 2, and/or Geometry in Construction)

Applies toward graduation requirements of: 1 Career Technical Education credit

Construction Fundamentals 2
Carpentry 2 **Credits 1 1/2**
Construction Technique 2 **First Year - Semester 2** **11, 12**

Course Name	**Semester 2**	**Grade Level**

Course Description: First year house construction students will continue to work hands-on in the construction of this year's student built house. Students will develop skills and valuable construction knowledge in the remaining phases of the building construction trades. Students will learn the dynamics of a real residential house construction site. Students will receive on the job training as they learn the trades and experience the work ethics of residential construction.

Essential Requirements:

- Students will complete: drywall hanging, drywall perfataping, interior door installation, trim out and carpentry, cabinet installation, floor coverings, siding and stone applications, deck building, and all aspects of detailing out a house.
- Ability to work safely, independently and as part of a team, and without constant supervision are critical to this class.

*Students will be working indoors and outdoors in temperatures ranging from 20 to 100 degrees.

In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

THREE – HOUR BLOCK - NO EXCEPTIONS!

Prerequisite Courses: Construction Fundamentals 1, Carpentry 1, Construction Technique 1 with a grade of "C" or better, or consent of instructor with recommendation of administrator/counselor.

Applies toward graduation requirements of: 1 Career Technical Education credit

Building Trades 1
House Building 1 **Credits 1 1/2**
Construction Technique 3 **Second Year - Semester 1** **12**

Course Name **Semester 1** **Grade Level**

Course Description: Second year house construction students will work with first year students to complete this year's student built house. The second year student will serve as a leader to demonstrate good work ethics and help guide first year students through the building construction trades. Second year students will expand their knowledge and refine their skills as they work to complete a second house. The second year student should achieve greater proficiency in their work and the development of their skills.

Essential Requirements:

- Students will complete: framing, stairs, roofing, exterior window and door installation, soffit and fascia, heating and cooling (with professionals), plumbing (with professionals), insulation, drywall hanging, drywall perfataping.
- Ability to work safely, independently and as part of a team, and without constant supervision are critical to this class.

*Students will be working indoors and outdoors in temperatures ranging from 20 to 100 degrees.

In the event of over enrollment, **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

THREE – HOUR BLOCK FOR 2ND YEAR STUDENTS – NO EXCEPTIONS!

Prerequisite Courses: Successful completion of one semester of Construction Fundamentals 1, Carpentry 1, Construction Technique 1, or Construction Fundamentals 2, Carpentry 2, Construction Technique 2 with a "C" grade or better or consent of instructor with recommendation of counselor/administrator.

Applies toward graduation requirements of: 1 Career Technical Education credit

Building Trades 2 **House Building 2** **Construction Technique 4**	**Credits 1 1/2** **Second Year - Semester 2**	**12**
Course Name	**Semester 2**	**Grade Level**

Course Description: Second year house construction students will receive the hands-on training that comes with working through the last phases of house construction. Second year students will experience the challenges of house construction with a greater level of understanding. Students will benefit from the development of skills with a higher proficiency and the diverse knowledge that comes with two years of training. Students will enter the job market with confidence and success.

Essential Requirements:

- Students will complete: drywall hanging, drywall perfataping, interior door installation, trim out and carpentry, cabinet installation, floor coverings, siding and stone applications, deck building, and all aspects of detailing out a house.
- Ability to work safely, independently and as part of a team, and without constant supervision are critical to this class.

*Students will be working indoors and outdoors in temperatures ranging from 20 to 100 degrees.

In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

THREE – HOUR BLOCK FOR 2ND YEAR STUDENTS - NO EXCEPTIONS!

Prerequisite Courses: Successful completion of Building Trades 1, House Building 1, Construction Technique 3 with a grade of "C" or better or consent of instructor with recommendation of counselor/administrator.

Applies toward graduation requirements of: 1 Career Technical Education credit

Cafe Protege/ (Culinary Arts For Industry)	Credits 2 (1 credit per semester)	11, 12
Course Name	**Semester 1 & 2 (Full Year Course)**	**Grade Level**

Course Description: The course introduces students to commercial foodservice concepts not found in more traditional F.A.C.S programs. Classes are held off campus at City College-Montana State University Billings in a full commercial kitchen setting.

This course is an introduction to the restaurant and foodservice industry. Students will be exposed to a variety of cooking skills and techniques, language, equipment, and basic operations critical for success in the culinary arts and foodservice industry. In addition to the fun and excitement of Culinary Arts the following topics are covered as essential requirements.

Fees Charged: Each semester a lab fee is required. Chef coats and headgear will be provided.

Essential Requirements:

- Food and Workplace Safety
- Knife Skills: Beginner through Advanced
- Stocks, Sauces, and Soups
- Cooking Methods and Techniques
- Baking Principles and Fundamentals of Bakeshop Production including: Breads, Pies, Cakes, Pastries, and Cookies
- Food Cultures and Styles from Around the U.S. and the World
- Customer Service, Work Place Communication, Food Costing and Controls, Menu Planning and Marketing
- Catering Fundamentals and Buffet Service Basics

Students are urged and assisted to seek employment in local food service establishments in such roles as paid internships, job shadow and work study programs.

Students can receive dual credit (both high school graduation credit and college credit) at most major culinary schools.

In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

TWO – HOUR BLOCK / YEAR LONG CLASS

Prerequisite Courses: Priority is given to students with prior culinary coursework.

Home Design/ Interior Design	Credit 1	11,12
Course Name	**Semester 1**	**Grade Level**

Course Description: This course provides skills with both a computer and hands-on approach to learning. Students complete comprehensive assignments where they apply all of the skills and knowledge obtained throughout the course. They work with community vendors to select: paint, flooring, lighting, tile, appliances, fixtures, and wallpaper for a student built house. They also learn the basics in AutoCad and Sketchup. This course is designed to teach the skills needed to be a professional in the design industry and meets the needs of students who desire to receive dual credit for a post secondary education.

Essential Requirements:

- Identify factors and characteristics that impact the interiors of a space by applying the elements and principles of design.
- Interpret written and verbal directions for drawing/modeling an interior design project.
- Demonstrate communication skills that promote positive relationships in the workplace by working in cooperative groups to implement a design plan for the Career Center student built house.
- Communicate design ideas through visual and oral presentations.
- Describe careers in the interior design industry by classifying careers that range from entry level to professional.

In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

TWO – HOUR BLOCK
1ST SEMESTER ONLY

Prerequisite Courses: Priority will be given to students with prior related coursework.

Applies toward graduation requirements of: 1 Career Technical Education credit

Home Improvement Design Improvement	Credit 1	11, 12
Course Name	Semester 2	Grade Level

Course Description: This course provides students with the essential skills and knowledge needed to make basic home improvements through a hands on approach to learning. Students will learn spatial layout and the staging process of the student built home. They will learn how to select product/material, provide an explanation of why selected, and model how to implement their selection in the work room or on site. Highlights include: painting, wallpaper installation, tile installation, mural design, etc. Students will learn from: professional presenters, field trips to industry related companies, and working/practicing on site at the Career Center house. This class will teach basic skills necessary to maintain and enhance a home.

Essential Requirements:

- Calculate quantities, measure, order and install product.
- Student will develop skills needed to complete interior projects on site or in the workroom.
- Will learn how to understand and stay within a budget.
- Student will communicate design ideas through visual and oral presentations to professionals and peers.
- This class will analyze career options available in the home improvement industry.

In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

TWO – HOUR BLOCK
2ND SEMESTER ONLY

Prerequisite Courses: Priority will be given to students with prior related coursework.

Applies toward graduation requirements of: 1 Career Technical Education credit

College Introduction to Interior Design	Credit 1 3 Credits at Gallatin College	11, 12
Course Name	**Semester 1 & 2 (Full Year Course)**	**Grade Level**

Course Description: This class is designed to provide dual credit with Gallatin College. Students successfully completing Interior/Home Design and Home/Design Improvement will receive college credit for IDSN101 Intro to Interior Design at Gallatin College in Bozeman. The objective of this course is to provide a successful transition from high school to post-secondary education.

Essential Requirements:

- Demonstrate an understanding of the development of architecture and interior design as professions including technical and regulatory elements, historical, current and future directions by successfully completing exams and/or projects
- Demonstrate the ability to distinguish and apply the terminology utilized in the fields of architecture and interior design
- Demonstrate an understanding and appreciation of the basic principles of architecture and interior design including space planning through the study of the design process, design principles and elements, human perception, building materials, furniture selection, textiles, lighting, color, accessories, human factors and business considerations
- Demonstrate an understanding of the elements and principles of design by successfully creating an elements and principles project
- Demonstrate an understanding of a design concept. An example of this is to create a successful concept board.
- Demonstrate an understanding of the diversity of needs and human factors in planning space with a presentation of their project. Their project and presentation will be done with proficiency.
- Demonstrate an understanding of the fundamentals of environmental design by showing a proficient understanding through project/question based evaluation.

In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

PART OF A TWO-HOUR BLOCK

- **to be taken with Home Design - Semester 1 AND**
- **to be taken with Home Improvement - Semester 2**

Prerequisite Courses: Priority will be given to students with prior related coursework.

Applies toward graduation requirements of: 1 Career Technical Education credit

Manufacturing Processing 1
Manufacturing Design 1 | **Credit 1** | **11, 12**

Course Name | **Semester 1 or 2 - 1st Year Student** | **Grade Level**

Course Description: This course offers students the opportunity to learn and explore the many aspects of metals manufacturing. Students will explore a variety of welding processes through hands on interaction in the welding lab. These processes may include plasma cutting, shielded metal arc welding, and gas metal arc welding. It is our goal to explore as many manufacturing processes as possible to prepare students for a career in metals manufacturing.

Essential Requirements:

- Ability to work safely in a shop environment
- Ability to work in groups with peers
- Ability to work independently to complete given assignments

In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

Must maintain a grade of "C" or better to move into 2nd semester classes

TWO – HOUR BLOCK

Prerequisite Courses: Basic Math skills

Applies toward graduation requirements of: 1 Career Technical Education credit

Manufacturing Processing 2

Manufacturing Design 2	**Credit 1**	**11, 12**
Course Name	**Semester 1 or 2 - 1st Year Student**	**Grade Level**

Course Description: This exciting course offers students the opportunity to continue learning and exploring the many aspects of metals manufacturing. Students will explore a variety of advanced welding techniques through hands on interaction in the welding lab. Students will be exposed to out of position welding using the shielded metal arc and gas metal arc welding processes. It is our goal to explore as many manufacturing processes as possible to prepare students for a career in metals manufacturing.

Essential Requirements:

- Ability to work safely in a shop environment
- Ability to work in groups with peers
- Ability to work independently to complete given assignments

In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

Must maintain a grade of "C" or better to move into 3rd semester classes

TWO – HOUR BLOCK

Prerequisite Courses: Must have completed Manufacturing Process 1 & Manufacturing Design 1 with a grade of "C" or better or instructor / administrator approval.

Applies toward graduation requirements of: 1 Career Technical Education credit

Manufacturing Technology 1

Manufacturing System 1	**Credit 1**	**12**
Course Name	**Semester 1 or 2 – 2nd Year Student**	**Grade Level**

Course Description: This exciting course offers students the opportunity to apply the skills learned in Manufacturing Process and Design. Along with learning stick, MIG, and TIG welding, students will learn basic blueprint reading, layout techniques, and measurement skills. Students will be given the opportunity to design and build personal projects of their choosing.

Essential Requirements:

- Ability to work safely in a shop environment
- Ability to work in groups with peers
- Ability to work independently to complete given assignments

In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

Must maintain a grade of "C" or better to move into 4th semester classes

TWO – HOUR BLOCK

Prerequisite Courses: Must have completed: Manuf. Process1 and Manuf. Design 1, Manuf. Process 2 and Manuf. Design 2 with a grade of "C" or better or instructor/administrator approval.

Applies toward graduation requirements of: 1 Career Technical Education credit

Manufacturing Technology 2

Manufacturing System 2	**Credit 1**	**12**
Course Name	**Semester 1 or 2 – 2nd Year Student**	**Grade Level**

Course Description: This course allows students to apply their metal working skills to advanced manufacturing applications such as pipe welding, build to print manufacturing, automated plasma cutting, and metal working design.

Essential Requirements:

- Ability to work safely in a shop environment
- Ability to work in groups with peers
- Ability to work independently to complete given assignments
- Blue print reading
- Basic Math
- Basic Measuring Skills

In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

Must have maintained a grade of "C" or better in the 1st three semesters of the program.

TWO – HOUR BLOCK

Prerequisite Courses: Must have completed Manuf. Process 1 and Manuf. Design 1, Manuf. Process 2 and Manuf. Design 2, Manuf. Tech 1 and Manuf. System 1 with a grade of "C" or better or by instructor/administrator approval.

Applies toward graduation requirements of: 1 Career Technical Education credit

College Welding 125	**Credit 1 5 Credits @City College-MSU-B**	**12**
Course Name	**Semester 1**	**Grade Level**

Course Description: Student learning includes manual and semi-automated oxy-acetylene cutting processes and safety. Shielded Metal Arc Welding with 6010 electrode, which leads toward American Welding Society D1.1 and American Society of Mechanical Engineers Section IX structural certification. Learning the air carbon arc cutting, plasma arc cutting processes, and equipment set-up. Welding shop safety and quality are emphasized.

Essential Requirements:

- Ability to work safely in a shop environment
- Ability to work in groups with peers
- Ability to work independently to complete given assignments
- Blueprint reading
- Basic Math
- Basic Measuring Skills

In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

Must have maintained a grade of "C" or better in the 1st two semesters of the program.

TWO – HOUR BLOCK

Prerequisite Courses: Must have completed Manuf. Process 1 and Manuf. Design 1, Manuf. Process 2 and Manuf. Design 2 with a grade of "C" or better or by instructor/administrator approval

Applies toward graduation requirements of: 1 Career Technical Education credit

College Welding 157	Credit 1 5 Credits @City College-MSU-B	12
Course Name	**Semester 2**	**Grade Level**

Course Description: Introduction of semi-automatic wire feed processes. This course leads to AWS and ASME qualification of plate (all positions) with the SMAW, GMAW, and FCAW processes. Safe practices and weld quality are major considerations.

Essential Requirements:

- Ability to work safely in a shop environment
- Ability to work in groups with peers
- Ability to work independently to complete given assignments
- Blueprint reading
- Basic Math
- Basic Measuring Skills

In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

Must have maintained a grade of "C" or better in the 1st three semesters of the program.

TWO – HOUR BLOCK

Prerequisite Courses: Must have completed Manuf. Process 1 and Manuf. Design 1, Manuf. Process 2, Manuf. Design 2, Manuf. Tech 1, Manuf. System 1 or College Welding 125 with a grade of "C" or better or with instructor/administrator approval

Applies toward graduation requirements of: 1 Career Technical Education credit

Machinist Technology-Manual	Credit 1/2	11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: This course explores and develops skills in basic machining technology as it applies to modern machining. It combines the applied technology of machining on lathes, mills, and drill presses. Students will complete a series of projects which will teach them skill sets which include: precision measurement using micrometers and calipers, threading, tapping, tapering, knurling, and traditional operation of the lathes, mills and drill presses. Students will have the ability to manufacture precision parts and produce quality projects upon completion of class.

Essential Requirements:

- Ability to follow written and verbal instructions
- Ability to understand and implement safety aspects of machining technology
- Ability to work safely with industrial equipment
- Ability to use basic math and precision measuring techniques
- Ability to perform basic machining tasks on lathes and mills
- Ability to work in groups with peers
- Ability to work independently and complete tasks in appropriate time allotted

In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

ONE – HOUR CLASS

Prerequisite Courses: None. Of the machining classes offered it is recommended that this course be taken first.

Applies toward graduation requirements of: 1 Career Technical Education credit

CNC Machining Technology	Credit 1/2	10, 11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: This course will introduce students to the world of Computer Controlled Machining and Cutting. Students will learn the basic concepts of 3D drafting and solid modeling then learn to convert their designs into actual parts by utilizing our industry proven CNC Mills and plasma cutter. All students will be involved with the NASA HUNCH program and build parts for the International Space Station. Students will leave this class with a basic foundation necessary for the manufacturing of precision components.

Essential Requirements:

- Basic Computer Skills
- Ability to work safely in a shop environment
- Ability to work in groups with peers
- Ability to work independently to complete given assignments

In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

ONE – HOUR CLASS

Prerequisite Courses: First priority is given to students who have completed Machinist Technology (Manual) with a grade of 'C' or better. Priority consideration will be given to 11th and 12th grade students who have completed and earned credit in; a Drafting/CAD course, Introduction to Engineering Design, or Principles of Engineering.
*Due to class size limitations, Seniors will have 1st enrollment considerations, Juniors will have 2nd enrollment consideration, and Sophomores will be enrolled after Juniors/Seniors.
*Note 10th grade students are only eligible to take this course if they have completed and earned credit in Introduction to Engineering Design.

Applies toward graduation requirements of: 1 Career Technical Education credit

CNC Machining Technology & Design	Credit 1/2	10, 11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: This course explores advanced applications of Computer Numerically Controlled machining through the use of Computer Aided Design (CAD) in conjunction with Computer Aided Manufacturing (CAM). Students will have the opportunity to learn advanced skills in precision measuring, use of digital readouts, drawing with basic CAD, and basic machine programming. These skills will be combined to program CNC lathes, mills, and plasma tables to machine precision parts during class.

Essential Requirements:

- Ability to follow written and verbal instructions
- Ability to understand and implement safety aspects of machining technology
- Ability to work safely with industrial equipment
- Ability to use basic math and precision measuring techniques
- Ability to perform basic machining tasks on lathes and mills
- Ability to work in groups with peers
- Ability to work independently and complete tasks in appropriate time allotted

In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

ONE – HOUR CLASS

Prerequisite Courses: First priority is given to students who have completed both Machinist Technology (Manual) and CNC Machining Technology with a grade of 'C' or better. Second priority is given to students who have completed a CNC Machining Technology with a grade of 'C' or better. Third priority is given to students who have completed Machinist Technology (manual) with a grade of 'C' or better.
*Priority consideration will be given to students who have completed and earned credit in; a Drafting/CAD course, Introduction to Engineering Design, or Principles of Engineering.

Applies toward graduation requirements of: 1 Career Technical Education credit

+ Construction Fundamentals 1
+ Carpentry 1

+ Construction Techniques 1	**Credit 1 1/2**	**11, 12**
Course Name	**Semester 1 – 1st Year Student**	**Grade Level**

Course Description: Construction Fundamentals is an in-shop experience, in that the course is designed to teach all safety and tool operation, as well as give the students as many experiences in dealing with the construction trades as possible. This is a progressive type program, as skill levels increase, so will the tasks required of each student. As students learn and gain the confidence needed to be successful they will be exposed to a multitude and varying array of construction trades techniques.

Essential Requirements:

- Ability to follow instruction, written and verbal.
- Work safely with industrial equipment
- Ability to understand safety aspects
- Basic plumbing/wiring
- Measuring, basic math skills
- Ability to take notes and do small scale drawings

In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

FIRST YEAR

THREE - HOUR BLOCK
CLASS OFFERED PERIODS 1, 2, & 3 ONLY

Prerequisite Courses- Strong math background, proficient in reading a tape measure, and ability to work appropriately and safely with equipment.

Applies toward graduation requirements of: 1 Career Technical Education credit

+ Construction Fundamentals 2
+ Carpentry 2

+ Construction Techniques 2	**Credit 1 1/2**	**11, 12**
Course Name	**Semester 2 – 1st Year Student**	**Grade Level**

Course Description: Construction Fundamentals is an in-shop experience, in that the course is designed to teach all safety and tool operation, as well as give the students as many experiences in dealing with the construction trades as possible. This is a progressive type program, as skill levels increase, so will the tasks required of each student. As students learn and gain the confidence needed to be successful, they will be exposed to a multitude and varying array of construction trades techniques.

Essential Requirements:

- Ability to follow instruction, written and verbal
- Work safely with industrial equipment
- Ability to understand safety aspects
- Basic blueprint reading
- Measuring, basic math skills
- Basic wiring/plumbing techniques
- Ability to take notes and do small scale drawings
- Safety is a number one priority for participation in this course. An IEP review will take place if safety for all stakeholders is a concern
- Sheetrock/perfataping/texturing applications
- Ability to work safely, independently and without constant supervision

In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

FIRST YEAR

THREE-HOUR BLOCK
CLASS OFFERED PERIODS 1, 2, & 3 ONLY

Prerequisite Courses: +Construction Fundamentals 1, +Carpentry 1, +Construction Tech. 1, successfully completed. Counselor, instructor/administrator approval.

Strong math background, proficient in reading a tape measure, and ability to work appropriately and safely with equipment.

Applies toward graduation requirements of: 1 Career Technical Education credit

+ Building Trades 1
+ House Building 1

+ Construction Techniques 3	**Credit 1 1/2**	**12**
Course Name	**Semester 1 -2nd Year Student**	**Grade Level**

Course Description: Building Trades is an in-shop experience, in that the course is designed to teach all safety and tool operation, as well as give the students as many experiences in dealing with the construction trades as possible. This is a progressive type program, as skill levels increase, so will the tasks required of each student. As students learn and gain the confidence needed to be successful they will be exposed to a multitude and varying array of construction trades techniques.

Essential Requirements:

- Ability to follow instruction, written and verbal
- Work safely with industrial equipment
- Ability to understand safety aspects
- Basic blueprint reading
- Measuring, basic math skills
- Basic wiring/plumbing techniques
- Ability to take notes and do small scale drawings
- Sheetrock/perfataping/texturing applications

In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

SECOND YEAR

THREE-HOUR BLOCK
CLASS OFFERED PERIODS 1, 2, & 3 ONLY

Prerequisite Courses: Satisfactory completion of both semesters of: +Const. Fundamentals 1 & 2, +Carpentry 1 & 2, +Construction Techniques 1 & 2 or Instructor/Administrative approval.

Strong math background, proficient in reading a tape measure, and ability to work appropriately and safely with equipment.

Applies toward graduation requirements of: 1 Career Technical Education credit

+ Building Trades 2
+ House Building 2

+ Construction Techniques 4	**Credit 1 1/2**	**12**
Course Name	**Semester 2 -2nd Year Student**	**Grade Level**

Course Description: Building Trades is an in-shop experience, in that the course is designed to teach all safety and tool operation, as well as give the students as many experiences in dealing with the construction trades as possible. This is a progressive type program, as skill levels increase, so will the tasks required of each student. As students learn and gain the confidence needed to be successful, they will be exposed to a multitude and varying array of construction trade techniques.

Essential Requirements:

- Ability to follow instruction, written and verbal
- Work safely with industrial equipment
- Ability to understand safety aspects
- Basic blueprint reading
- Measuring, basic math skills
- Basic wiring/plumbing techniques
- Ability to take notes and do small scale drawings
- Safety is a number one priority for participation in this course. An IEP review will take place if safety for all stakeholders is a concern
- Sheetrock/perfataping/texturing applications
- Ability to work safely, independently and without constant supervision

In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

SECOND YEAR

THREE-HOUR BLOCK
CLASS OFFERED PERIODS 1, 2, & 3 ONLY

Prerequisite Courses:. +Building Trades 1, + House Building 1, +Construction Techniques 3 successfully completed and /or counselor instructor/administrative approval.

Strong math background, proficient in reading a tape measure, and ability to work appropriately and safely with equipment.

Applies toward graduation requirements of: 1 Career Technical Education credit

Automotive Fundamentals	Credit 1/2	10, 11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: Automotive Fundamentals is a course designed for students who are considering entering the automotive industry as well as those who want to learn the basic fundamentals of automobile service and repair. This course introduces the student to the various automotive systems and goes on to provide the foundations of tool use, basic and necessary vehicle maintenance, and automotive industry terminology. The course also provides students access to technical information for system service and introduces them to automotive careers and certifications.

Critical Concepts:

- Demonstrate and understand automotive literacy and safety
- Demonstrate an understanding of industry tools, measuring tools, and equipment
- Demonstrate an understanding of basic automotive systems
- Demonstrate an understanding of engine design, classification, and construction
- Perform vehicle inspections and maintenance on automotive systems.

In the event of over enrollment:

★ **First criteria** for consideration shall be the grades the student earned in previous automotive courses.
★ **Second criteria** will be current daily attendance. Attendance is required and documented.

One Hour Class

Prerequisite Courses: None

Applies toward graduation requirements of: 1 Career Technical Education Credit

Automotive Engines 1	Credit 1/2	10, 11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: This course is an introduction to the design and operation of internal combustion engines. Students will learn to use repair manuals to correctly determine part numbers, torque specifications, read diagrams and perform maintenance procedures. Students acquire marketable employment skills by learning engine operation theory, proper tool and shop equipment use, and job safety requirements.

Critical Concepts:

- Demonstrate proper tool selection and usage
- Demonstrate the use of precision measuring tools
- Demonstrate an understanding of engine operating principles
- Identification of engine components
- Demonstrate how to disassemble and reassemble an engine
- Demonstrate how to troubleshoot an engine
- Demonstrate the use of on-line service and parts manuals

In the even of over enrollment:

★ **First criteria** for consideration shall be the grades the student earned in previous automotive courses.
★ **Second criteria** will be current daily attendance. Attendance is required and documented.

One Hour Class

Prerequisite Courses: None

Applies toward graduation requirements of: 1 Career Technical Education Credit

Automotive Powertrain	Credit 1/2	11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: This course focuses on the theory and operation of the vehicle's drivetrain. This includes automatic and manual transmissions, clutches, torque converters, transfer cases, driveshafts and differentials.

Critical Concepts:

- Inspect and service drivetrain components and fluids
- Disassemble and reassemble both manual and automatic transmissions
- Identify components and explain power flow through transmissions
- Disassemble and reassemble a transfer case (4 wheel drive)
- Disassemble and reassemble a differential

In the even of over enrollment:

★ **First criteria** for consideration shall be the grades the student earned in previous automotive courses.
★ **Second criteria** will be current daily attendance. Attendance is required and documented.

One Hour Class

Prerequisite Courses: None

Applies toward graduation requirements of: 1 Career Technical Education Credit

Automotive Electrical	Credit 1/2	11, 12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: This course covers electrical theory, diagnosis, and testing. Students will perform testing and services on the vehicle's battery, starting and charging system, as well as diagnose electrical faults using diagnostic equipment. Students will become NC3 certified in digital multimeters through the Snap-on Education Program and will also obtain certifications through Ford Motor Company.

This course is also offered for college credit under College Automotive Electrical

Critical Concepts:

- Demonstrate automotive industry communication and literacy skills
- Achieve NC3 certified in digital multimeters through the Snap-on Education Program
- Demonstrate proper soldering techniques
- Build an automotive test light and jumper wire
- Test and diagnose electrical faults using a multimeter
- Test and service a vehicle's battery, starting and charging the system

In the event of over enrollment:

★ **First criteria** for consideration shall be the grades the student earned in previous automotive courses.
★ **Second criteria** will be current daily attendance. Attendance is required and documented.

One Hour Class

Prerequisite Courses: None

Applies toward graduation requirements of: 1 Career Technical Education Credit

Automotive Chassis	Credit 1	11,12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: This course will provide students the opportunity to acquire marketable skills in diagnosis, repair and service of automotive brake, suspension and steering systems. City College MSU-B credits (2 credits) are available with demonstrated proficiency on written components at the conclusion of the course.

Critical Concepts:

- Understands automotive terminology as it pertains to brake systems
- Use precision measuring equipment
- Demonstrate automotive industry communication and literacy skills
- Demonstrate automotive industry workplace skills
- Demonstrate knowledge of brake, steering, and suspension systems theory
- Locate and identify chassis, suspension, and steering components
- Remove, inspect, assemble, and service brake, steering, and suspension system components.

In the event of over enrollment:

★ **First criteria** for consideration shall be the grades the student earned in previous automotive courses.
★ **Second criteria** will be current daily attendance. Attendance is required and documented.

Two Hour Block

Prerequisite Courses: Successful completion of Automotive Engines 1 or Automotive Fundamentals

Applies toward graduation requirement of: 1 Career Technical Education Credit

Automotive Engines 2	Credit 1	12
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: This course will train students in engine rebuilding procedures, engine services, diagnostics, and performance testing.

In the classroom, students will learn the theory and operation of the automotive engine and its various systems. The focus will be on engine performance as well as current trends in engine design. Throughout the course students will obtain certifications awarded through Ford Motor Company.

In the lab students will disassemble, measure, reassemble, and test run an engine. They will also perform routine services on the fuel, cooling, and lubrication systems. As a class we will test performance engines on the dynamometer and study the results using different components.

Critical Concepts:

- Demonstrate automotive industry communication and literacy skills.
- Rebuild, measure, and test run an engine following industry standards
- Successfully diagnose common engine malfunctions
- Complete a timing chain repair on a modern engine
- Perform common maintenance services
- Retrieve diagnostic trouble codes using factory scan tools
- Performance test engines on a dynamometer and analyze the data

In the event of over enrollment:

★ **First criteria** for consideration shall be the grades the student earned in previous automotive courses
★ **Second criteria** will be a current daily attendance. Attendance is required and documented.

Two Hour Block

Prerequisite Courses: Automotive Engines 1

Applies toward graduation requirements of: 1 Career Technical Education Credit

College	Credit 1/2	
Automotive Electrical	**2 Credits @ City College MSU-B**	**11, 12**
Course Name	**Semester 1 or 2**	**Grade Level**

Course Description: One Hour-One Semester Class. This is a dual credit course through City College-MSU-B. Students will earn two credits in TRID 292 Electrical/Electronic Systems 1 by successfully completing the Automotive Electrical course. Students in College Automotive Electrical will follow the same curriculum as students in Automotive Electrical.

This course covers electrical theory, diagnosis, and testing. Students will perform testing and services on the vehicle's battery, starting and charging system, as well as diagnose electrical faults using diagnostic equipment. Students will become NC3 certified in digital multimeters through the Snap-on Education Program and will also obtain certifications through Ford Motor Company.

Critical Concepts:

- Demonstrate automotive industry communication and literacy skills
- Achieve NC3 certified in digital multimeters through the Snap-on Education Program
- Demonstrate proper soldering techniques
- Build an automotive test light and jumper wire
- Test and diagnose electrical faults using a multimeter
- Test and service a vehicle's battery, starting, and charging system

In the event of over enrollment:

★ **First criteria** for consideration shall be the grades the student earned in previous automotive courses.
★ **Second criteria** will be current daily attendance. Attendance is required and documented.

MSU-Billings City College: 2 credits in TRID 292 Electrical/Electronic Systems 1 will be issued to students who pass the College Automotive Electrical class and complete all TRID 292 competencies.

Prerequisite Courses: None

Applies toward graduation requirements of: 1 Career Technical Education Credit

Early Child Physical Development
Early Child Intellectual Development **Credit 1** **11, 12**

Course Name **Semester 1** **Grade Level**

Course Description: You will gain practical teaching experience in one of the two Career Center Preschools, after learning teaching techniques in the high school classroom pertaining to children's physical, social, emotional and cognitive development. Emphasis is placed on education through physical and intellectual development. Opportunities are provided to learn what is entailed in various specialized fields such as special education, speech, physical and occupational therapies and pediatric nursing. Whatever path in life you choose children will likely be a part of it; don't miss this opportunity to brighten your life and the lives of many children.

Essential Requirements:

- Early childhood education training
- Teaching in the preschool
- Lesson planning for preschool
- Observation of preschool children
- Study of areas of child development
- Written evaluations

In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

TWO – HOUR BLOCK

Prerequisite Courses: None

Applies toward graduation requirements of: 1 Career Technical Education credit

Early Child Fundamentals
Early Child Physical Development
Early Child Intellectual Development **Credit 1.5** **11, 12**

Course Name **Semester 1** **Grade Level**

Course Description: Along with gaining practical teaching experience in the Career Center Preschools and learning techniques pertaining to children's development, this class stresses thematic lesson planning and teaching through centers. Opportunities are provided detailing specialized fields such as special education, speech, physical and occupational therapies and pediatric nursing. This class provides in depth instruction for those considering early childhood education.

Essential Requirements:

- Same as listed above.

In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

THREE - HOUR BLOCK

Prerequisite Courses: None

Applies toward graduation requirements of: 1 Career Technical Education credits.

Early Child Social Development
Early Child Emotional Development **Credit 1** **11, 12**

Course Name **Semester 2** **Grade Level**

Course Description: You will gain practical teaching experience in one of the two Career Center Preschools, after learning teaching techniques in the high school classroom pertaining to children's physical, social, emotional and cognitive development. Emphasis is placed on education through social and emotional development. Opportunities are provided to learn what is entailed in various specialized fields such as special education, speech, physical and occupational therapies and pediatric nursing. Whatever path in life you choose children will likely be a part of it; don't miss this opportunity to brighten your life and the lives of many children.

Essential Requirements:

- Early childhood education training
- Teaching in the preschool
- Lesson planning for preschool
- Observation of preschool children
- Study of areas of child development
- Written evaluations

In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

TWO – HOUR BLOCK

Prerequisite Courses: None

Applies toward graduation requirements of: 1 Career Technical Education credit

Children & Careers
Early Child Social Development
Early Child Emotional Development **Credit 1.5** **11, 12**

Course Name **Semester 2** **Grade Level**

Course Description: Along with gaining practical teaching experience in the Career Center Preschools and learning techniques pertaining to children's development, this class stresses thematic lesson planning and teaching through centers. Opportunities are provided to learn what is entailed in various specialized fields such as special education, speech, physical and occupational therapies and pediatric nursing. This class provides in depth instruction for those considering early childhood education.

Essential Requirements:

- Same as listed above.

In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

THREE – HOUR BLOCK

Prerequisite Courses: None

Applies toward graduation requirements of: 1 Career Technical Education credit

College EDU Human Growth & Development	Credit 1 3 Credits @MSU-Billings	11,12
Course Name	**Semester 1 & 2 (Full Year Course)**	**Grade Level**

Course Description: This class presents a comprehensive introduction to the study of human development including the developmental capabilities and needs of humans at different ages with respect to the physical, psychomotor, cognitive, social, emotional, and psychological domains that affect all education. The course includes 4.5 - 5 hrs per week lab at the Career Center Preschool.

Essential Requirements:

- Early childhood education training
- Teaching in the preschool
- Lesson planning for preschool
- Observation of preschool children
- Study of areas of child development
- Written evaluations
- Research Paper
- Case Study Paper
- Final Project

In the event of over enrollment, **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

One Hour Class that is taken as part of a Two Hour Block (with Early Child Intellectual Development-1st Semester or part of a Three Hour Block (with Early Child Fundamentals and Early Child Intellectual Development 1st Semester). 2nd Semester – This class is taken with Early Child Emotional Development in a Two Hour Block or part of a Three Hour Block – with Child and Careers and Early Child Emotional Development.

Prerequisite Courses: None

Applies toward graduation requirements of: 1 Career Technical Education credit

PLTW Introduction to Engineering Design	1 Credit (1/2 each semester)	9, 10, 11, 12
Course Name	**Semesters 1 & 2 -1st Year (Full Year Course)**	**Grade Level**

Course Description: This course teaches problem-solving skills used in the design development process. Models of product solutions are created, analyzed and communicated using the solid-modeling computer design software AUTODESK Inventor. This course, combined with traditional mathematics courses and science courses in high school, introduces students to the scope, rigor and discipline of engineering prior to entering college. Students will understand technology as a tool for problem solving, the scientific process, engineering problem solving and the application of technology. Additionally, students will be prepared for the rigor of college level engineering programs.

Students should definitely be taking or plan to take higher level math and science for 4 years of high school. Students should be in the top 1/3 of their class. Students should be interested in pursuing a degree in science, math, technology or engineering. Other important traits are: interested in computers, self-motivated, creative with art and design and enjoys solving problems.

For additional information: www.pltw.org

Essential Requirements:

- Understand technology as a tool for problem solving
- Understand the scientific process, engineering problem solving and application of technology.
- Understand technological systems as they interface with other systems.

In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

ONE – HOUR CLASS / YEAR LONG CLASS
FALL ENROLLMENT ONLY

Freshman students should have strong Algebra skills, be enrolled in Geometry or Honors Geometry, and be academically driven and organized. Freshmen will be taking this course with upper classmen and accountable for the same standards. Freshmen with these qualities have been very successful in the Engineering Program.

Required: Students should be on a 4-year math track.

Prerequisite Courses: Enrolled in Geometry or Honors Geometry or successfully completed Geometry with a 'C' or better. Strong Algebra 1 skills needed. Students do not need to take any Drafting or Computer Programming courses to be eligible for this course.

Applies toward graduation requirements of: 1 Career Technical Education credit

PLTW
Principles of Engineering -

POE	**1 Credit (1/2 each semester)**	**10, 11, 12**
Course Name	**Semester 1 & 2 - 2,3,4 Year (Full Year Course)**	**Grade Level**

Course Description: This survey course of engineering exposes students to some of the major concepts they will encounter in a college engineering program. Students employ engineering and scientific concepts in the solution of design problems. Problem solving, research, math and science, critical thinking, and teamwork are essential components to success in the course. This course has historically been instrumental in helping students choose a college engineering program and field of study beyond high school. Many describe this course as physics and design work for engineering students.

Students should:

a. Definitely be taking or plan to take higher level math and science for 4 years of high school.
b. Be in the top ⅓ of their class.
c. Willing to work in teams and individually.
d. Be interested in pursuing a degree in science, technology, engineering, or mathematics.

In the event of over enrollment, the first criteria for consideration shall be current daily attendance. Attendance is required and documented.

One-hour class/Year long class.
Fall enrollment only.

Required: Students should be on a 4-year math/science track.

Prerequisite Course: Intro to Engineering Design with a C or better. Geometry.

Applies toward graduation requirements of: 1 Career Technical Education Credit

Note: Juniors and seniors who have not taken Intro to Engineering Design (IED) may be eligible for this course if they meet the requirements above. Please consult with instructor for consideration.

PLTW Aerospace Engineering	1 Credit (1/2 each semester)	10, 11, 12
Course Name	**Semester 1 & 2 - 2,3,4 Year (Full Year Course)**	**Grade Level**

Course Description: This course propels students' learning in the fundamentals of flight and rocketry. As they explore the physics of flight, students bring the concepts to life by designing an airfoil, propulsion system and rockets. Students will participate in the NASA HUNCH Design and Prototyping project. This project will allow them the opportunity to innovate a product utilizing the Engineering Design Process. Students will culminate their project with a presentation of it to NASA Engineers and Astronauts.

- ➢ Students should definitely be taking or plan to take higher level math and science for 4 years of high school
- ➢ Students should be in the top 1/3 of their class. Students should be interested in pursuing a degree in science, math, technology or engineering. Other important traits are: interested in computers and are self-motivated.

Essential Requirements:

- Students should have an interest in aerospace and flight in general
- Students need to understand the scientific process, engineering problem solving and application of technology

In the event of over enrollment **first criteria** for consideration shall be current daily attendance. Attendance is required and documented.

ONE-HOUR CLASS/YEAR LONG CLASS
FALL ENROLLMENT ONLY

Required: Students should be on a 4-year math track.

Prerequisite Courses: Requires a grade of "C" or higher in Intro to Engineering Design

Applies toward graduation requirements of: 1 Career Technical Education credit

PLTW Digital Electronics - DE	1 Credit (1/2 each semester)	10, 11, 12
Course Name	**Semester 1 & 2 - 2,3,4 Year (Full Year Course)**	**Grade Level**

Course Description: Digital Electronics is commonly a required college course for any student pursuing a degree in mechanical, electrical, computer, aerospace, biomedical, or industrial engineering.

At Montana State University much of the content of this course is taught in the fall of the sophomore year in these engineering programs. Students learn soldering, prototyping of circuit boards, digital and Boolean logic, basic programming of programmable logic controllers, units and measurement, and circuit design. It is a very project oriented course with math and logic applications.

Highly recommended for most fields of engineering studies in college.

Students should:

a. Definitely be taking or plan to take higher level math and science for 4 years of high school
b. Be in the top ⅓ of their class
c. Willing to work in teams and individually
d. Be interested in pursuing a degree in science, technology, engineering or mathematics

In the event of over enrollment the first criteria for consideration shall be current daily attendance. Attendance is required and documented.

One-hour class/Year-long class.
Fall enrollment only.

Required: Students should be on a 4-year math/science track.

Prerequisite Course: Intro to Engineering Design with a C or better. Geometry.

Applies toward graduation requirements of: 1 Career Technical Education Credit

Note: Juniors and seniors who have not taken Intro to Engineering Design (IED) may be eligible for this course if they meet the requirements listed above. Please consult with instructor for consideration.

PLTW Civil Engineering and Architecture - CEA	1 Credit (1/2 each semester)	10, 11, 12
Course Name	**Semester 1 & 2 - 2,3,4 Year (Full Year Course)**	**Grade Level**

Course Description: In the CEA program students explore architectural design well beyond drafting. Many aspects of building design, city planning, and site development are presented as students are challenged with housing and commercial design projects. Documentation of projects is required. To present those projects the use of 3D architectural design software will be used. The development of skills in analyzation, planning, documentation, communication, and professional presentation is expected.

Students should:

a. Definitely be taking or plan to take higher level math and science for 4 years of high school
b. Be in the top ⅓ of their class
c. Willing to work in teams and individually
d. Be interested in pursuing a degree in science, technology, engineering, or mathematics

In the event of over enrollment the first criteria for consideration shall be daily attendance. Attendance is required and documented.

One-hour class/Year-long class
Fall enrollment only

Required: Students should be on a 4-year math/science track.

Prerequisite Course: Intro to Engineering Design with a C or better. Geometry.

Applies toward graduation requirements of: 1 Career Technical Education Credit

Note: Juniors and seniors who have not taken Intro to Engineering Design (IED) may be eligible for this course if they meet the requirements listed above. Please consult with instructor for consideration.

PLTW

Engineering Capstone	**1 Credit (1/2 each semester)**	**11, 12**
Course Name	**Semester 1 & 2 – 3rd/4th year (Full Year Course)**	**Grade Level**

Course Description: The Capstone class is the culmination of the Engineering Design, Digital Electronics, Principles of Engineering, and Aerospace Engineering course work. It offers the opportunity for the students to work in design teams to solve problems and meet needs by relying upon their prior knowledge, experience, and practice developed in previous engineering courses. Given that students have diverse strengths, backgrounds, and interests, i.e. computer programming, math, electronics, physics, design, organization, etc., they will be teamed based upon expertise to create diversity within the groups much like the dynamic found in real engineering design teams. Teams will expand upon processes developed in their earlier engineering courses, i.e. brainstorming, field observation and research, professional contact and interviews, documentation, mock-ups, 3D modeling, prototyping, field testing, process recording, proposal communication, etc.

Students should definitely be taking or plan to take higher level math and science for 4 years of high school. Students should be in the top 1/3 of their class. Students should be interested in pursuing a college degree in Engineering, Science, Mathematics, or Technology.

Essential Requirements:

- Apply math and science to the engineering field
- Understand the problem solving process, manufacturing process and application of technology
- Understand technology and its effects on society
- Understanding of the engineering design process
- Problem solving, organization, and computer skills
- Willing to work in teams and individually

In the event of over enrollment first criteria for consideration shall be current daily attendance. Attendance is required and documented.

ONE-HOUR CLASS/YEAR LONG CLASS
FALL ENROLLMENT ONLY

Required: Students should be on a 4-year math track.

Prerequisite Courses: Requires a grade of "C" or higher in two of the following: Introduction to Engineering Design, Principles of Engineering, Digital Electronics, and Aerospace Engineering and/or Instructor approval.

Applies toward graduation requirements of: 1 Career Technical Education credit
***Note: Juniors and Seniors who have not taken Intro to Engineering Design (IED) may be eligible for this course if they meet the requirements listed above. Please consult with instructor for consideration.

Workplace Experience Credit	Credit 0.5 - 1.5	11, 12
Course Name	**Semesters 1 or 2**	**Grade Level**

Course Description: Billings Public Schools students have the opportunity to participate in a Workplace Experience Internship which enables them to leave campus and apply their skills in a professional industry setting in a field related to their career pathway of interest. Learning outcomes and goals are set cooperatively by the student, partnering business, teacher coordinator, and career coach. Interns are required to complete a minimum of 90 hours per 0.5 credit per semester with the majority of that time in the workplace. Internships may include classroom activities with the teacher coordinator, involving further study of the field or discussion regarding experiences that students encounter in the workplace. Interns are supported throughout the program by their career coach and teacher coordinator and are graded on hours worked, reflections, assignments if applicable, and evaluations by their employer supervisors. Students earn elective course credit for their experience, as well as gain valuable work experience to add to their resumes. Interns may be paid but are typically unpaid.

Coordination of this course will be handled by the school's respective career coach with support from assistant principal and counselor.

Prerequisite Qualifications: Students must be in 11th or 12th grade, in good standing and on track to graduate, and should have successfully completed prior course work in the career pathway of interest. Priority will be given to 12th Grade Students due to space limitations.

The teacher coordinator must meet the licensure requirements (Ag-Ed, Business, Marketing, Graphics, Culinary, FCS, Tech Ed, Health Sciences, Performing Arts, Science, IT, and Engineering) in the career pathway that the student is requesting credit.

The partnering business, whether offering a paid or unpaid opportunity, must be willing to submit background checks for themselves and any related employee or have their own background check process in place that meets the district's threshold for acceptance.

Students may request a Workplace Experience Internship within any career pathway. Please contact the school's respective Career Coach for further prerequisites for these internship opportunities. Grades are typically Pass/Fail only but do not count into GPA or Class Rank.

Applies toward graduation requirements of: 7 Elective Credits