

Capital High School



2026-2027

Registration Guide

Table of Contents

Purpose of Registration Guide	3
Graduation Requirements	3
Course Request Information	4-5
Honors & Advanced Placement Courses	6
Dual Credit Opportunities	7-8
Construction Pathways-Pre-Apprentice Program & Certificate Opportunity	9
B.E.A.R. Award	10
HEF Distinguished Scholars Award	11
National Honor Society	11
English (1000)	12-14
Social Studies (2000)	15-17
Mathematics (3000)	18-21
Science (4000)	22-26
World Languages (5000)	27-30
Fine Arts (6000)	31-37
Art, Photography, Video, Music, and Drama	
Career and Technical Education (7000)	38-52
Industrial Technology, Business Education, Marketing Education, Family & Consumer Sciences, Biomedical Sciences, and Health Careers	
Specialized Courses	53
Human Performance and Health Enhancement (9000)	54-55
<u>STUDENT RESOURCES</u>	
Counseling Department	56
College and Career Center	56
Montana University System	57-58
Montana High School Association	58
NCAA & NAIA Clearinghouses	58
Planning Your Graduation Worksheet	59

Purpose of Registration Guide

To Our Capital High School Students, Parents and Guardians:

This booklet is designed to help our students and their parents select proper courses for the coming year. Please read it carefully. Students should talk over concerns with their parents/guardians, counselors, and teachers. It is important students select courses in the fields of their aptitudes, interests, and capabilities. The courses that are selected now will, in large measure, determine what students will do later. Students who plan on going to college should take courses to meet the general requirements for specific colleges or universities of their choice.

The enrollment of Capital High School for the year **2026-2027** will be over 1350 students in grades 9, 10, 11, and 12. It is necessary that all students intending to attend next school year complete their registration on time to secure the necessary teachers, order supplies, create a master schedule, equalize class sections, and utilize time and building space to the maximum degree of efficiency.

This booklet explains Capital's graduation requirements, required courses and course content. After the course outline is carefully studied, the student, with his or her parents/guardians, should fill out the registration form. Students will be scheduled for the year according to their completed registration.

Please make selections very carefully. Changes in registration will be permitted only in response to a need by failure to receive a passing grade in a course or because of very unusual circumstances that may develop. Students should select full-year courses with care and should realize that full-year courses may not always be dropped at semester time.

Graduation Requirements

Students who complete the course requirements listed below **and** earn a minimum total of 23 credits will meet the requirements for graduation.

Course Type		Credits Required
ENG	English	4.0
SST	World Studies	1.0
USH	American Studies 1 (**)	1.0
AMG	American Studies 2 (**)	1.0
SCI	Science	2.0
MTH	Mathematics	3.0
HP	Human Performance	1.5
HE	Health Enhancement	0.5
FA	Fine Arts	1.0
VOC	Career and Technical Education	1.0
ELE	Electives*	7.0
Total Credits Required		23.0

*(**) half credit of financial literacy/economics is imbedded into the American Studies 1 & 2 Curriculum (or AP USH/AP GOV) If a student does not complete Jr/Sr social studies at CHS, Personal Finance will be required*

**Elective credits may be earned in classes from all content areas, including SCI, MTH, FA, VOC, etc.*

Course Request Information

NORMAL CLASS LOAD

- **Freshmen & sophomores** need to be enrolled in **seven (7) periods per day**, with at least six (6) credit-bearing classes. One period may be a study hall. Students who choose to take seven credit-bearing classes need to consider the time required to work on those classes after school hours. Freshmen & sophomores may request to start zero period (7:25 a.m.) or 1st period (8:20 a.m.).
- **Juniors & seniors** must register for at least **six (6) credit-bearing classes** and may elect to take a study hall for a seventh class. Juniors and seniors may request to start classes zero period (7:25 a.m.), 1st period (8:20 a.m.) or 2nd period (9:15 a.m.).
- All bus students start 1st period.
- Any student who completes the day before 3:15 p.m. must leave the building or enroll in a study hall.

COURSE CREDITS & PREREQUISITES

- Full-year subjects such as English, American Studies, PE, etc. will receive one (1.0) credit per year.
- Semester subjects such as Psychology, Special Topics, etc. will receive a half (.5) credit.
- Credits are noted next to each course title as 1.0 or .5.
- **Course prerequisites/instructor verifications are noted at the end of each course description.**
- While a student may have fulfilled prerequisites/verifications, the availability of staff will determine the number of students finally enrolled in a class.

MAKING UP REQUIRED COURSES

- Students must register for required courses before they request elective courses.
- When a student fails the 1st semester of a required course, the student must register for the class for next year during the spring registration for the next year. **-OR-**
- A student can register for the Credit Recovery class with his/her counselor's permission.
- A student who receives a **D** in any **math course** is advised to repeat the course.
- Students who successfully complete a summer school make-up course for the failed semester can request a schedule change after summer school is completed and a passing grade is earned.

SETTING THE CHS COURSE SCHEDULE & CHANGING STUDENT SCHEDULES

- Scheduling at CHS is based on student course requests.
- All students request courses for the next year, but some courses may not be available for next year due to scheduling conflicts, lack of requests for the course, or staffing issues.
- Changes in registration will be permitted when necessary to fulfill graduation requirements, correct an enrollment error, or if another very unusual circumstances develop.
- Students should select full-year courses with care and should realize that full-year courses may not always be dropped at semester time.
- Students have **the first two weeks at the beginning of each semester to drop/add classes** with the appropriate signatures (parent/guardian and/or teachers) without receiving a Withdraw Fail (**WF**).
- A student who is withdrawn or dropped from a class two weeks or more after the beginning of a semester will have a **WF** recorded on the student's permanent record. Extreme circumstances may be appealed to the administration.
- Administration, parent, and teacher approval is required to **WF** any class.

Course Request Information

Signature on Registration Form Required <i>Signature indicates the student had a discussion with that teacher.</i>	Courses with Fees	Fee Amount
1101 English 1 Honors (commitment form)	4300 Biology 2	\$30/Year
1201 English 2 Honors (commitment form)	4306 Biology AP	\$30/Year
All Math Courses	4421 Science Seminar	\$175/Year
All Science Courses grades 9-10 only	6110 Art 1	\$20/Year
6710 Theater 2	6120 Art 2	\$25/Year
6720 Theater 3	6130 Art 3	\$30/Year
9300 Unified PE	6140 Art 4	\$30/Year
	6150 Visual Arts Design 1	\$20/Year
Application Required	6160 Visual Arts Design 2	\$20/Year
4101 Earth and Space Science Honors (grade 9 only)	6170 Visual Arts Design 3	\$20/Year
4201 Biology 1 Honors (grade 9 only)	6210 Ceramics 1	\$30/Year
4400 Physics (grade 9 only)	6220 Ceramics 2	\$30/Year
4421 Science Seminar	7100 Fundamental Woodworking	\$40/Year
7402 Yearbook	7170 Intermediate Carpentry	\$40/Year
7404 Yearbook 2	7190 Advanced Carpentry	\$40/Year
8140 Library Media Tech	7173 Construction Trade Seminar	\$40/Year
9351 Health Careers Exploration	7210 Auto 1	\$80/Year
	7220 Auto 2	\$80/Year
	7203 Auto 3	\$80/Year
	7230 Welding 1	\$40/Year
Audition and Signature Required	7240 Welding/Machining 2	Own Materials
6371 Jazz Ensemble	7250 Welding 3	Own Materials
6410 Orchestra Philharmonia	7255 Machining 3	Own Materials
6420 Orchestra Sinfonia	7535 Culinary Arts 1-2	\$60/Year
6530 Capital Chorale	7540 Culinary Arts 3	\$60/Year
6570 Saturday's Children	9402 Lifetime Sports	\$100/Sem
	9402 Lifetime Sports	\$100/Sem

Financial Assistance for Course Fees:

Financial assistance for some fees is available to families with documentation of financial need, as determined by eligibility for free/reduced meals. If assistance is needed, please visit the CHS bookkeeper in the Main Office.

Honors & Advanced Placement Courses

GPA STATUS FOR GRADUATION WITH HONORS

Honors Recognition	Grade Point Average Required
Summa Cum Laude	3.900-4.000
Magna Cum Laude	3.750-3.899
Cum Laude	3.500-3.749

HONORS & ADVANCED PLACEMENT (AP)

Capital High School offers a variety of dual credit, honors, and Advanced Placement (AP) classes in several subject areas. The honors courses are offered for the student who has a strong aptitude in that subject area and is willing to accept and work on a rigorous course curriculum. In addition to the course work during the school year, students who will be taking honors and AP classes will receive a summer assignment that must be completed prior to the first day of school. All dual credit courses count as both high school and college credit. The courses are taught on the campus of Capital High School. Students are responsible for college registration, cost of tuition and fees. Students must be at least 16 years old to qualify for college credit.

It is recommended that students take honors courses beginning their freshman year in order to be eligible for upper-level honors and AP courses. However, students may elect to try an honors or AP course in the sophomore year or beyond, even if they have not taken a course prior to that year.

AP courses are taught on a prescribed curriculum meant to simulate a college course, with all the rigor and expectations of a college course. Near the end of the course, a student may elect to take a national AP exam for a fee that could earn college credit for the student. Students may take an AP exam in any subject, even if they have not taken the AP course for that exam.

It is always recommended that the student and the family work with the student's counselor to work out a schedule that meets the academic needs of the student and sets the student up for success in his/her academic endeavor. It is not recommended by Capital High School that a student take more than three honors or AP classes each year. If a student wishes to take more than three honors or AP classes in a year, it is strongly recommended the student and the family meet with the counselor for a discussion.

HONORS COURSES: Please turn to the specific department for course descriptions.

Biology 1 Honors	English 2 Honors (Pre AP)	Math 2 Honors
Earth Science Honors	Math 1 Honors	Pre-Calculus Honors
English 1 Honors (Pre AP)		

AP COURSES:

These rigorous courses are offered on the Capital High campus. Students pay approximately \$95 to take the AP test in the spring. The test is scaled from 0-5. The university determines the level of achievement for credit and type of credit (required or elective) awarded. The following courses are the AP options:

AP American Government	AP Computer Science Principles	AP Human Geography
AP American History	AP Computer Science A	AP Physics 1
AP Biology	AP English 3 (Lang & Comp)	AP Physics 2
AP Calculus	AP English 4 (Lit & Comp)	AP Physics C
AP Chemistry	AP Environmental Science	AP Spanish 5
	AP European History	AP Statistics

Dual Credit Opportunities

The following courses are taught at Capital High School and are offered for dual credit through our partner institutions. Students are required to fill out a separate application and course registration for the college credit portion of the class. Counselors will present registration information at the start of each semester, and it is the student's responsibility to meet all of the college's deadlines and test score requirements, as well as to pay fees if required.

CHS/Helena College Dual Credit Offerings**				
Helena College Course		Credits	CRN	CHS Course
WRIT 101	College Writing	3	1457	English 4-WRIT 101 College Writing
LIT 110	Intro to Literature	3	1458	English 4- LIT 110
COMX 106	Communication in a Dynamic Workplace	3	1459	English 4-Communication in a Dynamic Workplace
M 105	Contemporary Math	3	3302	Contemporary Math
M 111T	Technical Math	3	3356	Technical Math
M 121	College Algebra	3	3440	College Algebra
M 151	Pre-Calculus	4	3301	Pre-Calculus Honors
M 171	Calculus I	4	3402	AP Calculus AB
M 172	Calculus 2	4	3405	AP Calculus BC
STAT 216	Intro to Statistics	3	3441	Statistics
CAPP 156	MS Excel	3	7361	MS Excel/PowerPoint
MCH 234	CNC Milling Operations 1	4	7250	Machining 3
AUTO 104	Automotive Mechanics	3	7203	Auto 3

**** Dual credit course offerings are dependent on staff with dual certifications. Classes offered for dual credit could change if staffing changes occur and no dual certified teachers are available.**



“One-Two-Free” offers two free dual enrollment courses, up to six credits, through the Montana University System (MUS) to all eligible high school students. Dual enrollment allows high school students to take 100 and 200 level college courses on campus, online, or in their high school. Students can explore a wide range of content including academic core and workforce courses. For more information, [click here](#). (dependent on state legislature funding the program)



- The program offers eligible high school students their first two classes free, up to six credits.
- After that students pay the discounted dual enrollment tuition rate of 50% the two-year institution's tuition (on average \$59 /credit).
- Students who demonstrate need can apply for a hardship scholarship to cover tuition beyond their first two courses/six credits.
- One-two-free applies to any lower division dual enrollment course from a participating institution, whether it is online, on campus, or in the high school.

DUAL CREDIT: Highlands College: CAPP 131 Basic MS Office if students complete both 7301 Basic Computer Skills & 7304 Tech Skills for Life



Dual Credit Opportunities

All dual credit courses count as both high school and college credit. The courses are taught on the campus of Capital High School. Students are responsible for college registration, cost of tuition and fees. **Students must be at least 16 years of age or enrolled in grade 11** and meet course qualifications. **All Math** courses require an additional placement form. Students are recommended to have a B or better in the pre-requisite math course when taking for college credit. ACT Math scores can also be used to prove proficiency for placement in a dual credit math course.

When you request a dual credit course, an application must be completed for the college credit portion of the class. *Students who drop a dual credit course once the semester has started are required to drop at both CHS and the corresponding college. Failure to drop at the college will cause the student to be responsible for paying the course fees, and the failure will be reflected on the Helena College transcript.*

Dual Credit Math Pathways			
Pairing Your College Plans of Study with the Appropriate Math Class			
CHS Dual Credit Classes			
M151 Pre-Calculus/M171 Calculus	M121 College Algebra/STAT 216 Statistics	M111 Technical Math	M105 Contemporary Math
College Fields of Study			
STEM Fields	Social Sciences	Trade Programs	Fine Arts
Hard Sciences	Business	Certificates	Liberal Arts
Bench Sciences	Nursing/Allied Health		
Medical Fields			
Engineering			
Math			

MONTANA DIGITAL ACADEMY: DUAL CREDIT OFFERINGS

The Montana Digital Academy offers dual credit courses through various Montana University System Institutions. Students are responsible for the technology component to ensure success in the online learning environment. They are also responsible for college registration, cost of tuition and fees. Students should visit with their counselor for more information or visit <http://montanadigitalacademy.org/montana-university-system-dual-credit-information/>.



PROJECT LEAD THE WAY (PLTW) UNIVERSITY OF MONTANA

The University of Montana recognizes and awards credits for Project Lead The Way (PLTW) courses. General Education and course credit for the Biomedical Sciences courses is granted based upon successful completion of the course with assessment scores as described below. Enrollment Services-Admissions will provide students with an evaluation of their credits upon receipt of official scores. The University of Montana awards college credit to undergraduate degree students on the basis of official score reports from PLTW. <https://www.umt.edu/admissions/apply/advanced-credits/project-lead-the-way.php>

PLTW Biomedical Sci. Course	Score	UM Course	UM Credits
Y1 Principles of Biomedical Science	350+	AHMS 144, Medical Terminology	3
Y2 Human Body Systems	350+	BIOH 112, Human Form and Function I	3
Y3 Medical Interventions	390+	BIOH 113, Human Form and Function II	3



Construction Pathways Pre-Apprenticeship & Certificate Opportunities

<http://apprenticeship.mt.gov/>

Capital High School's CTE Department has created a partnership with the Montana Department of Labor. Together they have developed a pre-apprenticeship program in the construction technology pathway. Students working within the pre-apprenticeship program will develop practical and skilled work experiences based on industry and occupational standards. Students will begin tracking hours that may be used in an approved apprenticeship program upon graduation.

Course #	CHS Courses	Hours
7100	Fundamental Woodworking	150
7102	Intermediate Carpentry	300
7410	Drafting 1	150
7163	Drafting 3-Architectural	75
7230	Welding 1	150
1459	Technical Writing/Communication in a Dynamic Workplace	150
3356	Technical Math	150
Additional Certifications		
	OSHA 10	10
Total Hours		610

CHS students who complete the pre-apprenticeship program in Construction Technology will receive a certificate from Department of Labor and Industry recognizing the hours they spent in their high school classes learning foundational skills. If a student decides to enter an employer-sponsored registered apprenticeship upon graduation, their employer will be encouraged to accept the hours spent in pre-apprenticeship possibly leading to a higher entrance point on the pay scale. Apprenticeship is a viable pathway to meaningful and lucrative careers. Apprentices who complete their programs earn an average of \$63,000 or more annually - \$20,000 higher than the statewide average wage. Students who begin an apprenticeship after graduation start earning a salary right away and continue to earn more as they learn more. They also receive employer benefits. 90% of apprenticeship graduates are employed in Montana upon completion of their program and graduate without any student loan/college debt. Apprenticeships are good for students as well as for Montana. (Source: MDLI) Apprenticeship programs require members to complete career specific training as well as on the job training hours. Hourly wage's is dependent on where apprentices are within the apprenticeship program. The CHS pre-apprentice program can lead to apprenticeships in construction, electrical, or plumbing fields. Additional construction related fields may be able to count hours depending on apprentice sponsor approval

Additionally CHS and Missoula College have been working on a certificate pathway that will lead to better starting opportunities in the construction industry or potentially give you additional hours in our apprenticeship program.

Construction Trades Certificate Pathway- Missoula College				
Missoula College Dual Credit				
Course #	CHS Course Name	MC Course #	MC Course Name	Cr.
7170	Intermediate Carpentry	OSH 110	Osha 10 Hour Training	1
7170	Intermediate Carpentry	OSH 130	Intro to Trades & Trade safety, Job Site Ready	3
7180	Advanced Carpentry	CSTN 120	Carpentry Basics & Rough Framing	3
7173	Construction Trades Seminar	CSTN 298	Construction Internship	3
Helena College Dual Credit Courses that Count towards MC Certificate				
Course #	CHS Course Name	HC Course #	HC Course Name	Cr.
1457	College Writing	WRIT 101	College Writing	3
3302	Contemporary Math	M105	Contemporary Math (or higher)	3
Online College Course- Missoula College or Helena College				
		COMX 102	Interpersonal Skills in the Workplace (or higher)	1

Special Recognitions

CHS B.E.A.R. AWARD

Capital High School honors those students who go beyond the required course load for graduation by taking honors, Advanced Placement and accelerated college preparation classes while maintaining a 3.5 grade point average. The Bruin Educational Achievement Recognition (B.E.A.R.) is awarded to graduating seniors who have achieved the following:

1. Taken 10 or more honors, Advanced Placement, and/or accelerated credits receiving a minimum of a B letter grade (after 8th semester).
2. Earned at least 7 of the 10 credits in following core departments: English, Math, Social Studies, Science, or Foreign Language.
3. Taken all required classes necessary for graduation.
4. Graduate with a minimum of 26 credits.
5. At the time of graduation have a minimum cumulative G.P.A. of 3.5.
6. No outstanding past or current disciplinary problems determined at the discretion of the Helena School Board through the day of graduation.
7. Involved in at least 2 school related activities.
8. Complete application for the B.E.A.R. award fall of senior year.

The following courses qualify for the B.E.A.R. and may only be counted once:

English	Sciences	Fine Arts-Continued
English 1 Honors	Earth Science Honors	Orchestra Sinfonia (Advanced)
English 2 Honors	Biology 1 Honors	Jubilettes
English 3 AP Language & Composition	Biology AP	Saturday's Children
English 4 AP Literature & Composition	Chemistry AP	Jazz Choir
English 4 College Writing & Literature	Physics	Music Theory Careers Prep
	AP Physics 1	Theater 3
Social Studies, History, & Gov't	AP Physics 2	Career & Technical Education
Human Geography AP	AP Physics C	Advanced Carpentry
American History AP	Science Seminar	Construction Trades Seminar
American Government AP	Environmental Science AP	Auto Technology 2
European History AP	World Languages	Advanced Auto Skills & Tech 3
	French 3 Honors	Welding 3
Mathematics	French 4	Machining 3
Math 1 Honors	Spanish 4	MS Office Word
Math 2 Honors	Spanish 5 AP	MS Office Excel
Pre-Calculus Honors	German 4	AP Computer Science A
AP Calculus AB	Fine Arts	AP Computer Science Principles
AP Calculus BC	Art 4	Marketing Management
Statistics AP	Visual Arts Design 3	Health Careers Exploration
	Symphonic Band	
	Jazz Ensemble	Accredited College Course (S1 & S2)

Special Recognitions

HEF DISTINGUISHED SCHOLARS AWARD



Distinguished Scholars are selected on the basis of criteria developed by students, teachers and administrators, including GPA, number of high-level courses, total credit hours, and activities. For up to date information and eligibility rules, visit www.hefmt.org/celebration-of-excellence/.

Qualifications for Distinguished Scholars

Students must have a minimum of 14 credit hours of honors, AP, accelerated or college-level classes (eligible dual credit courses as listed) and a 3.7 GPA at the end of the 7th semester in order to qualify as a Distinguished Scholar, and a minimum 24 total credit hours by the end of the 7th semester . Credits for non-core classes are limited to 2 credits of advanced study per area, such as music, art, language, etc.

NATIONAL HONOR SOCIETY



National Honor Society is a prestigious national organization only for the best and brightest students. The eligibility process begins with a minimum 3.5 cumulative GPA at the end of a student's fifth semester of high school. Members are selected based on the four criteria of scholarship, service, leadership, and character. NHS is a valuable addition to a student's high school transcript.

The following are the criteria for membership in National Honor Society:

Scholarship – Members have completed 5 semesters of high school and have a minimum cumulative GPA of 3.5 to be considered for membership in NHS.

Character – Members must be of good character. They must not have had any serious infractions of school policy during their time at CHS.

Service – NHS is a service organization. This means that we volunteer to help with various school and community events that are worthwhile and beneficial to the community.

Leadership – NHS members are student leaders by virtue of the fact that they give freely of themselves, stand up for what is right, and present as role models by adhering to the four tenets of National Honor Society.

Membership requires community service participation as well as attendance at bi-monthly lunchtime meetings.

As NHS is a prestigious national organization, membership in this group is an advantage when applying to the college or university of your choice.

English

A minimum of 4.0 ENG credits are required.

Students are not required to stay in a specific stream for English. They are free to move from a regular English class to an honors/AP class or from an honors/AP class to a regular English class. Students are encouraged to make decisions based on their ability.

	Grade 9	Grade 10	Grade 11	Grade 12
Required Courses <i>Choose one</i>	English 1 English 1-Honors (Pre-AP)	English 2 English 2-Honors (Pre-AP)	English 3 English 3-AP Lang & Comp	English 4 English 4-Coms in Workplace (DC) English 4-AP Literature & Composition College Writing & College Lit. (DC)
Elective Courses		Creative Writing	Creative Writing	Creative Writing
ENGLISH INTERVENTIONS: <i>Placement in the following intervention courses is based on academic need, as determined by screening and/or teacher recommendation.</i>				
	Essential English	Essential English	Essential English	Essential English

1100 English 1 **Grade: 9** **1.0 Credit**

English at the freshman level explores the genres of mythology (including *The Odyssey*), non-fiction, novel, and drama (i.e. *Romeo and Juliet*). The emphasis in composition is on argumentative analysis and process writing. Vocabulary development, library orientation, speaking, listening, and study skills are also included.

1101 English 1-Honors (Pre-AP) **Grade: 9** **1.0 Credit**

**Special Note: Registering for an AP or Honors course is meant to be a YEAR-LONG COMMITMENT. If you wish to drop an AP or Honors course, you will have to wait until one week after the semester begins.*

Honors English 1 is an accelerated course designed for the student who performs well in English, has a passion for reading and responding to a variety of literature, and enjoys writing. Students in this course must be self-motivated, be able to analyze and think critically about what they read and be active class participants. The course prepares students for Advanced Placement English courses at the junior and senior levels. **Prerequisite(s): Signed commitment form attached to registration materials -AND- completion of summer reading and related assignments. An A or B in the previous year's English class is recommended.**

1200 English 2 **Grade: 10** **1.0 Credit**

English at the sophomore level emphasizes the genres of novel, nonfiction, and short stories. At this level, other areas of literature, speaking, listening, grammar, vocabulary development, and research continue. The emphasis in composition is on argumentative, informational, and narrative writing.

English

A minimum of 4.0 ENG credits are required.

1201 English 2-Honors (Pre-AP)

Grade: 10

1.0 Credit

**Special Note: Registering for an AP or Honors course is meant to be a YEAR-LONG COMMITMENT. If you wish to drop an AP or Honors course, you will have to wait until one week after the semester begins.*

This rigorous version of the English 2 course prepares sophomores to succeed in Advanced Placement English courses in their junior and senior years by using SpringBoard curricular resources. Honors English 2 students tackle challenging and complex literature, often completing mandatory enrichment readings outside of class. They write and revise formal academic essays, study grammar and vocabulary, and accept responsibility for managing their time and course deadlines. Students engage in lively discussions, write several creative pieces, and practice public speaking skills. **Prerequisite(s): Signed commitment form attached to registration materials -AND- completion of summer reading and related assignments. An A or B in the previous year's English class is recommended.**

1300 English 3

Grade: 11

1.0 Credit

The junior year of English is devoted to the study of American Literature. Development of speaking, listening, reading, and grammar skills are continued. Writing includes narrative and informational instruction, but a larger emphasis is placed on argumentative writing in preparation for the ACT writing assessment.

1306 English 3-AP Language & Composition

Grade: 11

1.0 Credit

**Special Note: Registering for an AP or Honors course is meant to be a YEAR-LONG COMMITMENT. If you wish to drop an AP or Honors course, you will have to wait until one week after the semester begins.*

The AP English Language and Composition course is designed to help students become skilled readers of prose written in a variety of rhetorical contexts and to become skilled writers who compose for a variety of purposes. This is a college-level course. Both their writing and their reading should make students aware of the interactions among a writer's purposes, audience expectations, and subjects, as well as the way generic conventions and the resources of language contribute to effectiveness in writing. The goals of an AP English Language & Composition course are diverse because the college composition course is one of the most varied in the curriculum. **Students who take this course will prepare for, but are not required to take, the AP Language & Composition Exam (exam costs around \$100) in the spring. The exam is accepted at most colleges and universities for up to six college credits, depending on the student's AP exam score. Generally, colleges within the MUS system will substitute AP Language & Composition for College Writing, if score meets the school's criteria.**

1400 English 4

Grade: 12

1.0 Credit

Students will read and respond to a variety of literature: contemporary, multicultural, and science fiction. Students will focus on refining and expanding effective writing skills through critical and analytical writing, timed writing, and research. Seniors will also complete a resume, job cover letter, and college application essay; this will ensure students have what they need for whatever pathway they choose after graduation. Students will also read one Shakespearean play.

1406 English 4-AP Literature & Composition

Grade: 12

1.0 Credit

**Special Note: Registering for an AP or Honors course is meant to be a YEAR-LONG COMMITMENT. If you wish to drop an AP or Honors course, you will have to wait until one week after the semester begins.*

AP English 4 is designed for those seniors who enjoy literature and writing and who desire a challenging, in-depth study of English. A positive attitude toward learning and the ability to pursue knowledge independently will aid the student in the in-depth analysis of a wide selection of British and world literature designed to encourage critical thinking and writing. **Students taking this course will prepare for, but are not required to take, the AP Literature and Composition Exam (exam costs around \$100). The exam is accepted at most colleges and universities for college credits, depending on the student's AP exam score. Generally, colleges within the MUS system will substitute AP Literature and Composition for Introduction to Literature if score meets the school's criteria.**

English

A minimum of 4.0 ENG credits are required.

SENIOR YEAR ENGLISH 4 OPTIONS

College Writing/College Lit Combo

*Students must register for both of the following classes to fulfill the senior English requirement. Dual credit enrollment is optional.

***1457 WRIT 101 College Writing** **Grade: 12** **.5 Credit**

DUAL CREDIT Helena College: WRIT 101 College Writing

**DC Note: Students must meet the college's placement criteria and are responsible for college registration, cost of tuition, and fees.*

This is a rigorous college-level composition course; students will work at a college level on the writing process. WRIT 101 provides experience in written expression of ideas in expository prose with emphasis on the development of ideas, awareness of audience, and clarity. The course focuses on the writing process, patterns of writing, development of ideas, precise expression, critical thinking, and research skills.

***1458 English LIT 110** **Grade: 12** **.5 Credit**

DUAL CREDIT Helena College: LIT 110 Intro to Literature

**DC Note: Students must meet the college's placement criteria and are responsible for college registration, cost of tuition, and fees.*

This is a rigorous college-level literature course; students will read college-level literature and respond in college-level critical analysis of imaginative literature. Emphasis is on articulating strong responses to varied texts including poetry, drama and fiction, as well as literary criticism and theory.

1459 English 4-Communication in the Workplace **Grade: 12** **1.0 Credit**

DUAL CREDIT Helena College: COMX106

**DC Note: Students must meet the college's placement criteria and are responsible for college registration, cost of tuition, and fees.*

Are you planning to enter one of the trades (i.e., construction, welding, auto)? This course involves experience in communication formats typical of technical careers. Emphasis is on writing that would be done in particular fields with consideration of the audience, context, and purpose to refine and expand writing skills. The course will include guest speakers from various technical fields and reading high interest fiction and non-fiction like *The Big Burn*, *American Buffalo*, adventure blogs and more.

ENGLISH ELECTIVES

1445 Creative Writing **Grades: 10-12** **1.0 Credit**

Writing is a way to understand what we've been through, a way to share our experiences, and a way to entertain. It's a lot of work to do it well, and it's also a whole lot of fun. In this class we'll explore the four main genres of Creative Writing: Poetry, Play/Screenwriting, Nonfiction and Fiction. We'll write in response to prompts, we'll imitate the writing of published authors, and we'll go out on a limb and do our own things. Creative Writing class is also a fantastic way to get to know other people as we will come together to create our own community of storytellers and poets. We will hang out around a table, drink tea, and share our writing in exchange for supportive and thoughtful responses that help all of us become stronger writers. We will write in class every day!

Social Studies, History, & Government

A minimum of 1.0 SST, 1.0 USH, and 1.0 AMG credits are required.

	Grade 9	Grade 10	Grade 11	Grade 12
Required Courses	World Studies Human Geography AP	None Required	American Studies I American History AP	American Studies II American Government AP
Elective Courses		European History AP World History Psychology Sociology	European History AP World History Sociology Psychology Advanced Psychology Special Topics	European History AP World History Sociology Psychology Advanced Psychology Special Topics

FRESHMAN YEAR - WORLD CULTURES OPTIONS

2100 World Studies (Required) Grade: 9 1.0 Credit

The World Studies course, rooted in an inquiry-based approach, integrates civics, economics, geography, and history to cultivate critical thinking skills. Aligned with state, national, and C3 standards, the course prepares students for active citizenship. This dynamic course goes beyond traditional learning, providing a holistic educational experience that equips students with knowledge and skills for the complexities of the 21st century.

2103 Human Geography AP Grade: 9 1.0 Credit

**Special Note: Registering for an AP or Honors course is meant to be a YEAR-LONG COMMITMENT. If you wish to drop an AP or Honors course, you will have to wait until one week after the semester begins.*

Learn about the world and get college credit! The AP Human Geography course is equivalent to an introductory college-level course in human geography. Content is presented thematically through the subfields of: economic geography, cultural geography, political geography and urban geography. Case studies are drawn from all world regions, with an emphasis on understanding the world in which we live today. Students enrolling for this course will be assigned college-level texts to read, along with writing assignments and projects meant to develop critical thinking skills. Students successfully completing this course will take the Advanced Placement test (Exam Fee: Approx. \$95) for college credit and will fulfill the district's World Cultures curriculum requirement. The exam is accepted in most colleges and universities for college credits, depending on student's AP exam score.

JUNIOR YEAR - AMERICAN HISTORY OPTIONS

2300 American Studies I (Required) Grade: 11 1.0 Credit

In the American Studies I course, spanning from Pre-Columbian America to 1939, students engage in an integrated process exploring the past, contemplating the present, and anticipating the future. Utilizing authentic inquiry methods, the course places a strong emphasis on questioning, analyzing primary and secondary sources, and conveying conclusions through written, verbal, and visual means. This junior-level course delves into America's history, heritage, and evolving global role, with a deep integration of civics, geography, and economics. Through thematic and chronological sequences, students prepare for their role as participatory members of a democracy, engaging in various activities and assessments such as individual work, collaboration, lectures, presentations, and research.

Social Studies, History, & Government

A minimum of 1.0 SST, 1.0 USH, and 1.0 AMG credits are required.

JUNIOR YEAR - AMERICAN HISTORY OPTIONS

2306 American History-AP **Grade: 11** **1.0 Credit**

**Special Note: Registering for an AP or Honors course is meant to be a YEAR-LONG COMMITMENT. If you wish to drop an AP or Honors course, you will have to wait until one week after the semester begins.*

The Advanced Placement American History course is designed to provide students with the analytical skills and factual knowledge necessary to deal critically with problems and materials in American history. It prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. Students taking this course are eligible to take the Advanced Placement (AP) American History Exam given by the College Board. A passing grade on it makes the student eligible for up to six college credits at over 95% of schools nationwide. **An A or B in World Cultures is recommended.**

SENIOR YEAR - GOVERNMENT OPTIONS

2400 American Studies II (Required) **Grade: 12** **1.0 Credit**

Building on the foundation laid by American Studies I, this inquiry-based course explores history from the World War II era to the modern day using a thematic lens integrating civics, geography, and economics. American Studies II, designed for senior-level students, covers key aspects such as the Constitution, government structure, political parties, interest groups, civil rights, and comparative political and economic systems. Through diverse methods like group projects, discussions, and research, students engage in active citizenship. Assessment is conducted through various written and/or oral techniques.

2406 American Government-AP **Grade: 12** **1.0 Credit**

**Special Note: Registering for an AP or Honors course is meant to be a YEAR-LONG COMMITMENT. If you wish to drop an AP or Honors course, you will have to wait until one week after the semester begins.*

Advanced Placement American Government is designed for seniors with ability and interest in social studies who want an in-depth political science course using advanced analytical and educational skills. Students successfully completing this course will take the Advanced Placement for college credit and will fulfill the district's American Government curriculum requirement. The course will cover political and economic theory, institutions, civil liberties guaranteed by the U.S. Constitution, and issues of federal, state and local government. Learning activities will focus on critical thinking and research through reading, writing and seminar discussions. The exam is accepted in most colleges and universities for college credits, depending on student's AP exam score.

SOCIAL STUDIES ELECTIVES

2321 Special Topics in American History-S1 **Grades: 11-12** **.5 Credit**

2322 Special Topics in American History-S2 **Grades: 11-12** **.5 Credit**

This course will give a more in-depth analysis of various issues in American History. Student will choose from various topics including the Sixties, the Vietnam War, Feminism, music and movies. Students may either take one semester or both semesters, as each semester will be different. This course requires a strong desire by students to gain an in depth knowledge of history and politics.

Social Studies, History, & Government

A minimum of 1.0 SST, 1.0 USH, and 1.0 AMG credits are required.

SOCIAL STUDIES ELECTIVES

2426 European History-AP

Grades: 10-12

1.0 Credit

**Special Note: Registering for an AP or Honors course is meant to be a YEAR-LONG COMMITMENT. If you wish to drop an AP or Honors course, you will have to wait until one week after the semester begins.*

Advanced Placement European History is designed to be the equivalent of a college freshman level survey course in European history. The course, offered to Sophomores, Juniors and Seniors, provides students with the analytical skills and factual knowledge to deal critically with problems and materials in European history. Learning activities include readings from primary documents, assessing historical materials in essays, and seminar discussions. Students should be prepared for significantly more reading and challenging assignments. Students taking this course are eligible to take the Advanced Placement (AP) European History Exam, which is accepted for credit at many colleges and universities. The exam is accepted in most colleges and universities for college credits, depending on student's AP exam score.

2440 World History

Grades: 10-12

1.0 Credit

This class is designed to be taken as either a single semester or a full year. The first semester will delve into the roots of human history, exploring pre-history to around 1500 CE. The class will examine the rise and fall of ancient civilizations like Mesopotamia, Egypt, Greece, Rome, India, and China, while also unraveling the complexities of the Middle Ages, the Arab World, the Crusades, the Mongols, and the Renaissance. The second semester will navigate the dynamic period from the 16th to the 20th century. The focus is on global events such as Exploration, the Chinese and Indian Empires, the Scientific Revolution, French Revolution, Industrial Revolution, Colonization, both World Wars, and the intricacies of the Cold War. Throughout both semesters, emphasis will be placed on understanding historical contexts through lectures, discussions, projects, and presentations, fostering a comprehensive grasp of the world's intricate tapestry.

2450 Psychology

Grades: 10-12

.5 Credit

Psychology involves the study of human behavior and the influences that affect mental processes. Students will be confronted with the history of the development of psychology as a science. This course will also introduce students to prominent psychologists and their theories, as well as exploring different areas of psychology as a profession. Because students will be studying human behavior, the study of structure and function of both the brain and the nervous system will also be covered. Finally, a variety of topics, including mental illness and abnormal behaviors, will also be acknowledged.

2451 Advanced Psychology

Grades: 11-12

.5 Credit

Advanced Psychology is a course offered to students who have successfully completed the semester course in Psychology I offered at Capital High School. Topics to be covered in this course are: Memory, Cognition, Social Psychology, Health Psychology, Positive Psychology, Advanced Biological Psychology, Consciousness, Psychological Therapy and Current Issues in Psychology. We will use the textbook Psychology by Sandra Ciccarelli and Nolan White.

Prerequisite: Psychology.

2490 Sociology

Grades: 10-12

.5 Credit

Sociology is the study of social life, social change, and the social causes and consequences of human behavior. This one semester course focuses on: the sociological perspective; methods of inquiry; social structure - culture, institutions, society; social relationships - self, groups, socialization; stratification and inequality. Topics covered may include: collective behavior, cults, culture, demography, deviance, education, ethnicity, ethics, families, gangs, gender issues, groups, hate crimes, medicine, poverty, race, research methods, socialization, social class, social protest movements, and technology.

Mathematics

A minimum of 3.0 MTH Credits are required.

3103 Pre- Algebra

Grades: 9-12

1.0 Credit

This is a developmental course for students who have not experienced success with middle school mathematics. The course prepares students for Algebra 1 and refines arithmetic skills. This course does not meet high school state standards. Students will be required to take Algebra 1 the following year. **Prerequisite(s): Signature of current Math teacher is required on registration form.**

3100 Algebra I

Grades: 9-12

1.0 Credit

This is the first of the four-year sequence for all students. This is the foundational high school course for students and emphasizes a strong development of the ideas of Algebra. The course prepares students for algebraic thinking and problem solving skills. Students who successfully complete this course will go on to take Geometry.

Prerequisite(s): Signature of current Math teacher is required on registration form.

3101 Mathematics 1-Honors

Grade: 9

1.0 Credit

**Special Note: Registering for an AP or Honors course is meant to be a YEAR-LONG COMMITMENT. If you wish to drop an AP or Honors course, you will have to wait until one week after the semester begins.*

This is the first of the four-year honors sequence. This is an accelerated course and emphasizes a strong development of the ideas of Algebra and Geometry. The course prepares students for algebraic thinking and refines geometric and problem solving skills. Students who successfully complete this course will go on to take Honors Mathematics 2. **Prerequisite(s): Signature of current Math teacher is required on registration form.**

3200 Geometry

Grades: 9-12

1.0 Credit

This is the second of the four-year sequence for all students and emphasizes a strong development of the ideas of Geometry. The course prepares students for geometric thinking and refines probability and Algebra skills. Students who successfully complete this course will go on to take Algebra 2. It is strongly recommended that no 9th graders enroll in this course and instead, either enroll in Math 1 Honors or Algebra 1. **Prerequisite(s): Signature of current math teacher or passing grade in Algebra 1.**

3201 Mathematics 2-Honors

Grades: 9-10

1.0 Credit

**Special Note: Registering for an AP or Honors course is meant to be a YEAR-LONG COMMITMENT. If you wish to drop an AP or Honors course, you will have to wait until one week after the semester begins.*

This is the second of the four-year sequence and emphasizes a strong development of the ideas of Geometry and higher Algebra skills. The course prepares students for geometric thinking and refines geometric, statistical and problem-solving skills. Students who successfully complete this course will go on to take Honors Pre-Calculus. **Prerequisite(s): Signature of current Math teacher is required on registration form -AND- Honors Algebra 1 (B or better recommended).**

3300 Algebra II

Grades: 10-12

1.0 Credit

This is the third of the four-year sequence for all students and emphasizes a strong development of the ideas of advanced algebra. The course prepares students for algebraic thinking, refines geometric skills, and further develops problem solving. This course is required of all students that will be attending college. Students entering college in a technical field such as engineering, mathematics, sciences or economics take this course their Junior year and take a fourth year of mathematics their senior year. **Prerequisite(s): Signature of current Math teacher is required on registration form -AND- Geometry.**

Mathematics

A minimum of 3.0 MATH Credits are required.

3302 MA 105 Contemporary Math **Grades: 12** **1.0 Credit**

DUAL CREDIT Helena College: MA 105 Contemporary Math

**DC Note: Students must meet the college's placement criteria and are responsible for college registration, cost of tuition, and fees.*

This course is designed to meet the general education mathematics requirement for the liberal arts major. It surveys some of the important ideas and practical applications in mathematics and uses algebra skills to solve real problems. Topics include problem solving, financial math, mathematical modeling (linear and quadratic), and elementary statistics.

Prerequisites: Successful completion of Geometry and Counselor/teacher recommendation

3356 Technical Math **Grades: 11-12** **1.0 Credit**

DUAL CREDIT Helena College: M111 Technical Math

**DC Note: Students must meet the college's placement criteria and are responsible for college registration, cost of tuition, and fees.*

This course is designed for those interested in pursuing a technical or vocational career or degree after high school. The courses include fractions, decimals, ratios, proportions, formulas and word problems. Topics studied are metric and American measurements systems, linear equations, algebra, developing applied skills in practical geometry, solid figures, and basic trigonometry. **Prerequisite(s): Signature of current Math teacher is required on registration form -AND- Algebra I (C or better recommended) -AND- Concurrent enrollment in Career and Technical Education class is required. Technical Math must be a student's third math credit.**

3301 Pre-Calculus-Honors **Grades: 10-12** **1.0 Credit**

**Special Note: Registering for an AP or Honors course is meant to be a YEAR-LONG COMMITMENT. If you wish to drop an AP or Honors course, you will have to wait until one week after the semester begins.*

DUAL CREDIT Helena College: M151 Pre-Calculus

**DC Note: Students must meet the college's placement criteria and are responsible for college registration, cost of tuition, and fees.*

This is the third or fourth year in the sequence intended to prepare students for the possibility of a STEM (Science, Technology, Engineering, and Math) career or major in college. This course extends on the concepts of Algebra 2, while undertaking the study of trigonometry, and preparing students for calculus. The course extends past what is presented in College Algebra and covers topics included on the ACT and SAT. Students from Honors Mathematics 2 or Algebra II take this class. Students who are successful with this class could go on to Calculus the following year.

Prerequisite(s): Signature of current math teacher is required on registration form -AND- Mathematics 2-Honors (B or better recommended) or Algebra II (A is recommended)

3401 AP Calculus AB **Grades: 11-12** **1.0 Credit**

**Special Note: Registering for an AP or Honors course is meant to be a YEAR-LONG COMMITMENT. If you wish to drop an AP or Honors course, you will have to wait until one week after the semester begins.*

DUAL CREDIT Helena College: M171 Calculus I or Calculus A/B AP Exam

**DC Note: Students must meet the college's placement criteria and are responsible for college registration, cost of tuition, and fees.*

This is the fourth of a four-year honors sequence. This Honors course is designed for high ability mathematics students planning to take calculus as college freshmen. The subject of this course is single variable calculus. Topics include functions, limits, continuity, differentiations, tangents, implicit differentiation, Mean Value Theorem, integration, Fundamental Theorem of Calculus, logarithmic, exponential functions, and applications of integration. It is recommended that students take the AP Calculus A/B Test if not taking the class for dual credit. **Prerequisite(s): Signature of current Math teacher is required on registration form -AND- Pre-Calculus (B or better recommended).**

Mathematics

A minimum of 3.0 MATH Credits are required.

3405 AP Calculus BC

Grades: 12

1.0 Credit

**Special Note: Registering for an AP or Honors course is meant to be a YEAR-LONG COMMITMENT. If you wish to drop an AP or Honors course, you will have to wait until one week after the semester begins.*

DUAL CREDIT Helena College: M172 Calculus 2 (must have taken M171 for dual credit or a 3 or higher on AP exam)

**DC Note: Students must meet the college's placement criteria and are responsible for college registration, cost of tuition, and fees.*

This is a one-year, integrated mathematics course. Topics include all material covered in AP Calculus AB; integration by parts and partial fraction decomposition; set up and compute integrals in applied situations such as finding volumes of solids of revolution, arc length, surface area, work, fluid pressure, and centers of mass; determine convergence/divergence of series via various tests; Power series (including interval and radius of convergence) and Taylor series expansions of common functions; recognize and graph parametric and polar equations, as well as compute areas and arc length of polar curves. It is recommended that students take the AP Calculus B/C Test if not taking the class for dual credit. **Prerequisite(s): Signature of current Math teacher is required on registration form -AND- Calculus AP.**

3440 College Algebra-S1

Grades: 11-12

.5 Credit

DUAL CREDIT Helena College: M121 College Algebra

**DC Note: Students must meet the college's placement criteria and are responsible for college registration, cost of tuition, and fees.*

This course is designed for juniors and seniors who would like to improve their algebra skills and prep for the ACT and SAT exams. It is intended for those who are interested in following a liberal arts major in college. The course will focus on applications of mathematics reviewing algebraic skills and extending those skills. Statistics is recommended as a second semester course. **Prerequisite(s): Signature of current Math teacher is required on registration form -AND- Honors Math 2 or Algebra II (C or better recommended) .**

3441 Statistics-S2

Grades: 11-12

.5 Credit

DUAL CREDIT Helena College: STAT 216 Intro to Statistics

**DC Note: Students must meet the college's placement criteria and are responsible for college registration, cost of tuition, and fees.*

This course is designed for juniors and seniors who would like a strong introduction to statistics in preparation for college. College Algebra is the recommended first semester course. The course will focus on applications of mathematics and statistical modeling. Statistics will be taught using real world situations in a way everyone can understand. The TI-84 calculator will be used daily. At the end of the course, each student will have a binder of all notes necessary to be successful in a college statistics course. Students seeking advanced preparation in mathematics may take this course at the same time as Pre-Calculus and Calculus. **Prerequisite(s): Signature of current Math teacher is required on registration form -AND- Algebra II (C or better recommended).**

3442 AP Statistics

Grades: 11-12

1.0 Credit

DUAL CREDIT Helena College: STAT 216 Intro to Statistics

**DC Note: Students must meet the college's placement criteria and are responsible for college registration, cost of tuition, and fees.*

**Special Note: Registering for an AP or Honors course is meant to be a YEAR-LONG COMMITMENT. If you wish to drop an AP or Honors course, you will have to wait until one week after the semester begins.*

AP Statistics is a senior-only course and introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students will observe patterns and departures from patterns, decide what and how to measure, produce models using probability and simulation, and confirm models. Appropriate technology, from manipulatives to calculators and application software, will be used regularly for instruction and assessment. Optional AP exam is offered in the spring. **Prerequisites: Successful completion of Algebra 2 or above, and teacher signature.**

Sciences

A minimum of 2.0 SCI Credits are required.

Science Pathways

2 Years Required for Graduation (1 Physical Science & 1 Life Science) <i>*3 years recommended for Rigorous Core/College Entrance</i>	Physical Science Earth & Space Science Earth & Space Science Honors Chemistry Physics	Life Science Biology Biology 1 Honors	
Grade 9 Required Science Options	Grade 10 Required Science Options		
<i>Earth & Space Science -or- Honors Earth & Space Science (Geometry/Math 1 Honors req) -or- Biology 1 Honors (Geometry/Math 1 Honors req) -or- Physics 1 (Math 2 Honors req)</i>	<i>Biology 1 -or- Biology 1 Honors -or- Chemistry 1-or- Physics 1</i>		
Physical Science/Engineering			
General Science	Environmental Sciences	Health/Medical	
9th Grade	9th Grade	9th Grade	9th Grade
Earth & Space Science Honors Earth & Space Science	Earth & Space Science Honors Earth & Space Science	Honors Earth & Space Science -or- Physics 1 (Math 2 Req)	Honors Biology 1 (Math 1 req) Principles of Biomed rec.
10th Grade	10th Grade	10th Grade	10th Grade
Biology 1 Honors Biology 1	Biology 1 Honors Biology 1 AND- Chemistry 1	Chemistry & Biology 1 Optional- Biology 1 Honors, AP Physics 1	Chemistry AP Biology -or- Biology 2 Human Body Systems rec.
11th Grade	11th Grade	11th Grade	11th Grade
Chemistry Physics Biology 2 AP Environmental Science	AP Biology or Biology 2 AND- AP Environmental Science	AP Physics 1 AP Physics 2 or C Optional AP Chemistry	Biology 2 -or-AP Biology Chemistry -or- AP Chemistry Bio Med 3 rec.
12th Grade	12th Grade	12th Grade	12th Grade
Chemistry Physics Biology 2 AP Environmental Science Science Seminar AP Science Options	Science Seminar AP Chemistry AP Physics 1 AP Biology	AP Physics 2 or C Science Seminar AP Chemistry	AP Chemistry Physics -or- AP Physics 1 Science Seminar Bio Med 4 rec.
<i>Please understand these pathways are just guides and designed to help you plan a sequence of courses that will prepare you for specific career clusters. We encourage you to take any science electives that you are interested in as long as you meet the prerequisites for that course.</i>			
Elective Course Suggestions <i>These courses meet rigorous core for university studies</i>	Grade 10 AP Biology; Biology 2; AP Physics 1; Chemistry	Grade 11 AP Biology; Biology 2; AP Chemistry; Chemistry; AP Environmental Sci; AP Physics 1, 2, or C;	Grade 12 AP Biology; Biology 2; AP Chemistry; Chemistry; AP Environmental Sci; AP Physics 1, 2, or C; Science Seminar

Sciences

A minimum of 2.0 SCI Credits are required.

4100 Earth and Space Science

Grade: 9

1.0 Credit

Earth and Space Science is a class designed for the majority of incoming freshmen. This course is a survey of Geology, Meteorology, Astronomy and Hydrology. Lab work, reading, data analysis and writing is used in this class. Students are expected to make observations, take measurements, and draw conclusions.

4101 Earth and Space Science-Honors

Grades: 9-10

1.0 Credit

Honors Earth and Space Science is designed for students who are talented in mathematics and science, and who enjoy and have an interest in pursuing a scientific course of study. This course involves in-depth reading of scientific works, measurement, data analysis, inquiry labs, and the writing of science based papers. Students are expected to be able to make predictions from their observations, test these predictions, collect data using measurement from tests and draw conclusions from their work. This class has a science literacy and field component. ***Prerequisite(s): Signature of current Science teacher is required on registration form. "B" or better in Math, Science, and English is recommended.***

****Grade 9 ONLY: Concurrent enrollment in Geometry or Mathematics 1-Honors (or higher) AND application and selection are required.***

4200 Biology 1

Grade: 10

1.0 Credit

Biology 1 is a survey course in the Life Sciences that includes laboratory experiences. The purpose of the course is to develop an understanding of living things and their relationship to each other. This course will help students develop a framework for understanding modern biology and to gain an appreciation of science as a process. There will be an emphasis on application of biological knowledge and critical thinking in relation to environmental and social concerns. The major themes include molecules and cells, heredity and evolution, diversity of life and ecology.

4201 Biology 1-Honors

Grades: 9-10

1.0 Credit

Honors Biology 1 is a survey course in the Life Sciences designed to challenge the advanced sophomore-level student. This rigorous course requires a high level of commitment and effort from the honors student. It is more in-depth and faster paced than the regular biology course, with a greater emphasis on critical thinking and independent learning. Successful completion of this class will better prepare students for other advanced level courses. ***Prerequisite(s): Signature of current Science teacher is required on registration form. "B" or better in Math, Science, and English is recommended.***

****Grade 9 ONLY: Concurrent enrollment in Geometry or Mathematics 1-Honors (or higher) AND application and selection are required.***

4300 Biology 2

Grades: 10-12

1.0 Credit

Biology 2 is a third-year science course offered to any sophomore, junior, or senior student who has passed Biology 1 or Biology 1 Honors with a C or better and has either completed a physical science course or is concurrently enrolled in a physical science course along with Biology 2. Biology 2 emphasizes the application of biological science topics including forest ecology, wildlife biology, genetics, embryology, histology, and anatomy. The first semester focuses on field study and laboratory experiences in forestry and fire ecology. Semester 1 includes at least one field trip for forestry and fire ecology. The second semester focuses on genetics, embryology, histology, and vertebrate mammal anatomy. At the end of semester 2 there is an in-depth cat dissection project. Although this is a year-long course, students will be able to enter in the 2nd semester separately from semester 1 if they have met the prerequisites. ***There is a course fee of \$30. Students must also meet the prerequisites of passing Biology 1 or Biology 1 Honors with a C or better along with the completion of a physical science course prior to or concurrently enrolled in along with Biology 2.***

Sciences

A minimum of 2.0 SCI Credits are required.

4306 Biology AP

Grades: 10-12

1.0 Credit

AP Biology is a course offered to 10-12 grade students who have successfully completed Biology I or Honors Biology I with a B or better. The course is a rigorous, college-level class, designed to investigate and develop a deeper understanding of the concepts normally covered in a first-year college biology course as well as to prepare students to take the AP Biology Exam. Students who take this course will be expected to take the AP Biology Exam at the end of May. Students that take AP Biology will retain and apply content learned to develop advanced inquiry and reasoning skills such as designing experiments, collecting and analyzing data, applying mathematical routines, and connecting concepts in/across domains. **Course Fee: \$30 Prerequisite(s): Biology 1 or Biology 1 Honors (B or better recommended) -AND- Chemistry/Concurrent Enrollment. *Grade 10 ONLY: Parent conference AND signature of current science teacher is required on registration form if the Honors Biology I prerequisite has not been met.**

4310 Chemistry 1

Grades: 10-12

1.0 Credit

Chemistry is the study of the composition of substances and the changes they undergo. The basic principles and concepts of chemistry are developed through laboratory investigation. Included are atomic structure, gas laws, chemical reactions, elements, compounds, etc. Evaluation via objective testing covers textbook assignments, lab experiences, lectures, and demonstrations. These first-year topics are being taught in an inquiry teaching setting/environment. **Prerequisite(s): Algebra II (or higher)/Concurrent Enrollment.**

4400 Physics

Grades: 9-12

1.0 Credit

"Inquiry Physics" Physics provides an opportunity for students to continue their survey of the fundamental science disciplines offered at the high school level. Physics is a college preparatory introductory level survey course recommended for those students with an interest in science that have demonstrated a high ability in mathematics and previous science classes. Through inquiry activities, laboratory experiences, discussion, movies and lecture students will explore the relationships of waves, sound, light, color, matter, kinematics of motion and energy with an emphasis on increasing student understanding of graphing, diagraming and fundamental problem-solving skills. Topics of study will include waves, sound, light, lenses, mirrors, motion, kinematics, forces, momentum, friction, energy, modern physics theory of the universe, and planetary motion. **Prerequisite(s): Algebra II (or higher)/Concurrent Enrollment. *Grade 9 ONLY: Concurrent enrollment in Mathematics 2-Honors is required AND application and selection are required.**

4401 AP Physics I

Grades: 10-12

1.0 Credit

AP Physics 1 is a rigorous 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 sound. Students who take this course are expected to take the AP exam in May. Students who take AP Physics 1 should expect an accelerated pace and may require additional work or lab time outside of the regular class period. **Prerequisite(s): Algebra II (or higher)/Concurrent Enrollment.**

4402 AP Physics 2

Grades: 11-12

1.0 Credit

AP Physics 2 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. Students taking this course are expected to take the AP Test. **The course is to be offered every other year on odd years in exchange for AP Physics C. Prerequisite(s): Students need to have taken or be enrolled in Honor's Math 2 or equivalent. AP Physics 1 or Physics is not required to take this course.**

Sciences

A minimum of 2.0 SCI Credits are required.

4403 AP Physics C: Mechanics/Electricity and Magnetism Grades: 11-12 1.0 Credit

AP Physics C is a calculus-based, college-level physics course, especially appropriate for students planning to specialize in or major in physical science or engineering. This is a second-year college physics course. This class will culminate in TWO AP tests at the end of the year. The first semester will be focused on mechanics. Mechanics covers kinematics; Newton's laws of motion; energy and power; systems of particles and linear momentum; circular motion and rotation; oscillations and gravitation. The second semester will focus on electricity and magnetism. This semester will cover electrostatics; conductors, capacitors, and dielectrics; electric circuits; magnetic fields; and electromagnetism. It should be noted that some introductory differential and integral calculus will be used in this course. **The course is to be offered every other year on even years in exchange for AP Physics 2. Prerequisite(s): Students need to have taken a physics course (physics, AP physics 1, AP physics 2) AND either have taken or are concurrently enrolled in a calculus course.**

4420 Chemistry AP Grades: 11-12 1.0 Credit

AP Chemistry is an elective science course that will be offered to 11-12 grade students. It is designed to be taken after the completion of Chemistry 1 and students will also be required to have successfully completed Algebra 2 or equivalent math class prior to taking this class. The course follows the AP curriculum and is designed to investigate and develop a deeper understanding of the concepts normally covered in a first-year college chemistry course as well as to prepare students to take the AP Chemistry Exam. Students who take this course will be expected to take the AP Chemistry Exam at the end of May. Students who take AP Chemistry should expect an accelerated pace and may require additional work or lab time outside of the regular class period. Students will build deeper understanding of chemistry concepts by engaging in inquiry based laboratory experiences that require detailed quantitative analysis and written laboratory reports. **Prerequisite(s): Chemistry 1 and Algebra II.**

4421 Science Seminar Grades: 12 1.0Credit

This course provides an opportunity for students to explore science enrichment topics not emphasized in other science classes. Scientific problems, Bioethics, and controversial issues will be explored through literature review, writing, student presentations, class discussion, interaction with community resource personnel, and independent research. A course fee of \$175 is required to cover transportation, food and guides for field trips; including Yellowstone National Park. **Fees: \$175. Prerequisite(s): Three (3) Lab Sciences or Science-related courses AND Concurrent Enrollment in year-long Lab Science or Science-related course (Exceptions may apply to students who have taken more than one science course in a year) AND application and selection are required.**

4501 AP Environmental Science Grades: 11-12 1.0 Credit

This course is designed to cover a variety of topics within the sciences. The goal is to provide you with the scientific principles, concepts and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate risk factors of these problems, and to examine alternative solutions for resolving or preventing them. Emphasis in this class is placed on science as a process, energy conversions underlying all ecological processes, the Earth as an interconnected system, how humans alter the environment, environmental problems and their social context and developing sustainable practices. This course adheres to the objectives instituted by the College Board for all AP Environmental Science. This is a laboratory course in which you are expected to follow scientific methodologies, collect data and make accurate hypotheses. **Prerequisite(s): Biology 1 or Biology 1 Honors (B or better recommended).**

Sciences

A minimum of 2.0 SCI Credits are required.

SCIENCE RELATED COURSES

7309 Robotics

Grades: 9-12

1.0 Credit

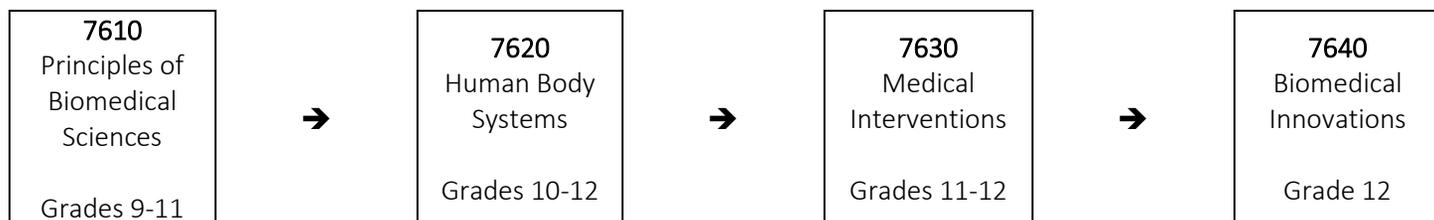
Introduction to Robotics will offer students the opportunity to design, build and program a variety of robots using state of the art materials and programming languages, as they apply the fundamentals of science, math, and technology. The course will introduce the engineering process as students work through constructing robots. This robotics course does not replace the traditional math and science courses needed to pursue a degree in engineering. It is meant to supplement the students' content experience so students considering an engineering career will appreciate the connection between robotics and engineering. Students will apply core concepts of traditional sciences as physics, chemistry and biology in the engineering/robotics pathway. Students will learn to use two different programming languages. Students should have a high interest in robotics. **Prerequisites: Algebra I (B or higher is recommended) and keyboarding skills.**

7610-7640 Project Lead the Way– Biomedical Sciences

Grades: 9-12

1.0 Credit

Additional Option for VOC Credit or Elective Credit. These courses will not replace science requirements for graduation, nor do they replace any college preparatory Science classes. **See CTE: Biomedical Sciences section for full course descriptions.**



The University of Montana recognizes and awards credits for Project Lead The Way (PLTW) courses. General Education and course credit for the Biomedical Sciences courses is granted based upon successful completion of the course with assessment scores as described below. Enrollment Services-Admissions will provide students with an evaluation of their credits upon receipt of official scores. The University of Montana awards college credit to undergraduate degree students on the basis of official score reports from PLTW. <https://www.umt.edu/admissions/apply/advanced-credits/project-lead-the-way.php>

PLTW Biomedical Sci. Course	Score	UM Course	UM Credits
Y1 Principles of Biomedical Science	350+	AHMS 144, Medical Terminology	3
Y2 Human Body Systems	350+	BIOH 112, Human Form and Function I	3
Y3 Medical Interventions	390+	BIOH 113, Human Form and Function II	3



9351 Health Careers Exploration

Two Hours

Grades: 11-12

2.0 Credit

The Health Careers Exploration Class is a two-hour class designed to provide high school students with the opportunity to develop the skills and knowledge for the health occupations. The class is yearlong and is offered as an elective class to juniors and seniors. The class emphasizes training in medical terminology, basic health care skills, basic human anatomy, safety practices and ethics. Instruction is delivered through classroom, laboratory, practicum and job shadowing settings. After successful completion of this class the student will be eligible to obtain CNA (Certified Nursing Assistant) certification, and students will find options for employment or further education in health care professions.

Prerequisite(s): Two (2) years of Math AND two (2) years of Science AND application and selection are required.

World Languages

¿Habla Ud. Español? Parlez-vous français? Sprechen Sie Deutsch? Nonne intelligitis Latinam linguam?

Spanish, French, Latin, and German are the languages you can study at Capital High. Spanish is offered in a five-year sequence (grades 8-12). Currently, first year Spanish is offered in 8th grade. French and German are a four-year sequence. Latin is offered in a three-year sequence. You can begin any of the four languages at any grade in high school. The general recommendation is to take as many years as possible of the same language and even add another language if possible!

Students often ask why studying another language is important

- In most countries learning another language is expected and required as part of the general education of all students.
- Some colleges and universities require 2, 3, or even 4 years of a world language for entrance. Still others require a world language for graduation. Check with individual schools for the requirements.
- After a period of time, you will be able to communicate with people in their own language.
- You can use the thinking, memorizing, and organizing skills you have acquired to help you in other classes.
- You will learn more about your own language-grammar and vocabulary.
- Research shows that students who have studied a world language do better on standardized tests (like the SAT) than students who have no language training.

Language	The prerequisite for taking the next level of a language is a passing grade in the previous level				
Latin	Latin 1 (@ HHS)	Latin 2 (@HHS)	Latin 3 (@HHS)		
French	French 1	French 2	French 3	French 4	
Spanish	Spanish 1	Spanish 2	Spanish 3	Spanish 4	Spanish 5 AP
German	German 1	German 2	German 3	German 4	

World Languages

LATIN SEQUENCE

5110 Latin 1 (Offered at HHS) Grades: 9-12 1.0 Credit

Latin 1 is the first year of a two-year curriculum in which the students learn Latin as they follow a typical Roman family living in 80 A.D. As they study family life in the vast Empire of Rome, students will learn how to translate Latin and also about Roman culture and mythology. This class includes instruction in basic grammar, idiomatic expressions, proper intonation and accentuation, and how Latin is the foundation for other languages including English.

5120 Latin 2 (Offered at HHS) Grades: 10-12 1.0 Credit

Latin 2 requires a strong foundation in Latin 1. It is the continuation of the study of Latin grammar, idioms, history, and culture. These concepts are taught through a family history that includes a broad view of Roman history and mythology, and of a Roman's responsibility to society. Students are expected to demonstrate proficiency in verb tenses, Latin syntax and grammar, and vocabulary. *Prerequisite(s): Latin 1.*

5130 Latin 3 (Offered at HHS) Grades: 11-12 1.0 Credit

Latin 3 requires a strong foundation in Latin 2. Students in Latin 3 will examine authentic texts of both prose and poetry in order to improve mastery of grammar, syntax, vocabulary, verb usage, history and culture. *Prerequisite(s): Latin 2.*

FRENCH SEQUENCE

5210 French 1 Grades: 9-12 1.0 Credit

French 1 is the beginning course of a four year program. Students begin to develop the four basic language skills (listening, speaking, reading, and writing) and to learn specific techniques to facilitate acquisition of a second language. Emphasis is on acquiring such basic learning skills as following directions, listening actively, participating in drills, memorizing and retaining vocabulary. Spending out-of-class time each day orally studying French is highly encouraged. French 1 also introduces students to the culture, geography, and history of France. Students assume responsibility for their own learning through independent study and self-tests.

5220 French 2 Grades: 10-12 1.0 Credit

French 2 is designed to improve student communication skills in listening, speaking, reading and writing. Students also increase their understanding of French culture, geography and history. They cover additional grammar and they also advance their reading ability. They participate in oral discussions. A solid background in French 1 is required. Students need to be able to follow directions, organize material, and learn through independent study and self-tests.

Prerequisite(s): French 1.

5230 French 3 Grades: 11-12 1.0 Credit

French 3 introduces new grammar concepts and more vocabulary. Listening and reading comprehension are emphasized. Students prepare compositions on assigned topics and present them to the class. Speaking and class discussion reinforce their language learning. *Prerequisite(s): French 2.*

5240 French 4 Grade: 12 1.0 Credit

French 4 is a continuation of French 3. Students work toward increased fluency and self-confidence in speaking French. Reading, writing, and speaking skills are practiced and formally assessed. The students also perform self-analyses and they each build a portfolio over the course of the year. Readings and film viewings followed by oral and written work assignments sharpen their listening and reading comprehension. *Prerequisite(s): French 3.*

World Languages

SPANISH SEQUENCE

5310 Spanish 1

Grades: 9-12

1.0 Credit

Spanish 1 is the beginning course of a five year program. Students build a foundational vocabulary base that enables them to begin communicating in Spanish. Vocabulary and fundamental language skills are practiced through activities such as worksheets, presentations, conversations, interviews, discussions, stories, and films. Spanish 1 also introduces the students to elements of Hispanic culture, geography, and history. Students are expected to actively participate in the classroom as well as invest study time outside of class. Upon successful completion of Spanish 1, students should plan to continue with higher-level Spanish courses to gain fluency in the language.

5320 Spanish 2

Grades: 9-12

1.0 Credit

In Spanish 2, the students continue to build communication skills in listening, speaking, reading and writing. They increase their understanding of Hispanic culture, geography and history. They will learn additional grammar and vocabulary by reading novels, short stories, and articles written by Hispanic authors that have been adapted for students at this level. Other class activities include viewing authentic Hispanic films, making presentations and participating in class discussions. A solid background in Spanish 1 is required, and students need to be able to follow directions and organize material. Those who finish the course successfully qualify for Spanish 3. ***Prerequisite(s): Spanish 1. Students who take Spanish 1 in 8th grade are required to get their teacher's signature to register for Spanish 2.***

5330 Spanish 3

Grades: 10-12

1.0 Credit

Students in Spanish 3 further develop the skills necessary for communication in Spanish. They acquire more vocabulary and learn new grammar concepts as well as review and practice previously learned concepts. Students advance their emerging proficiency by performing authentic communication tasks and by using culturally authentic materials like Hispanic literature, film, newspapers and magazines. The class is conducted in Spanish. Students who successfully complete this course may enroll in Spanish 4, or, with instructor consent, advance to Spanish 5 Advanced Placement Language. ***Prerequisite(s): Spanish 2.***

5340 Spanish 4-Culture, Communication, & Conversation

Grades: 11-12

1.0 Credit

Spanish 4 students practice and expand essential communication skills and increase their fluency and self-confidence in speaking Spanish. Students perform authentic communication tasks and use culturally authentic materials as in other Spanish classes. However, class discussions and student compositions reflect more complex language applications and a deeper cultural understanding. Only Spanish is spoken in class. Unless ending their study of Spanish at the secondary level, students who successfully complete this course, may be considered for Spanish 5 Advanced Placement Language.

Prerequisite(s): Spanish 3

5356 Spanish 5- AP

Grades: 11-12

1.0 Credit

****Special Note: Registering for an AP or Honors course is meant to be a YEAR-LONG COMMITMENT. If you wish to drop an AP or Honors course, you will have to wait until one week after the semester begins.***

Spanish 5 AP Language students continue to refine and enhance acquired communication skills as well as broaden their understanding of Spanish language and Hispanic culture. Students are preparing for college level courses in conversation, composition, and literature. Students take the Advanced Placement Spanish Language Examination in May and, depending on their scores, may receive college credit. Only Spanish is spoken in class. ***Prerequisite(s): Spanish 4.***

World Languages

GERMAN SEQUENCE

5410 German 1

Grades: 9-12

1.0 Credit

German 1 coursework lays the foundation of German language learning including the alphabet, numbers, the case system, and gender of nouns. Topics include introductions, schools and universities, sports and free time activities, family, food and eating out. During the first year students will become familiar with the present and future tenses. At all times there will be an emphasis on the 5 Cs of language instruction: communication, culture, connections, comparisons and communities. Reading, listening, writing and speaking activities provide a comprehensive learning experience. Cultural projects, German films and audio communications complement instruction.

5420 German 2

Grades: 10-12

1.0 Credit

German 2 continues to work on listening, speaking, reading and writing proficiency with such topics as holidays and celebrations, clothing, chores, seasons, transportation and technology. Students learn songs and practice speaking using different tenses, especially the present perfect and simple past. The goals of second year German are (1) to develop a student's appreciation of the German-speaking world by offering opportunities to hear and to read authentic dialogues and interviews, to see photos and videos, and (2) most importantly to allow students opportunities to improve their communication skills. They continue to practice basic survival skills in the language. Cultural projects, German films and audio communications complement instruction. Students may participate in our German exchange program, offered biennially, after completion of German 2. *Prerequisite(s): German 1.*

5430 German 3

Grades: 11-12

1.0 Credit

The major goal at this level is to offer students many personalized activities in speaking, listening, reading, and writing to allow them to gain confidence and higher levels of accuracy in each skill area. Topics include daily routines, health, city life in Germany, professions, nature and the environment. At this level grammatical exactness is stressed. That means there is an ongoing review of previously studied grammar points as well as an introduction to passive and to subjunctive.

Prerequisite(s): German 2.

5440 German 4

Grade: 12

1.0 Credit

Continued fluency is stressed, as is cultural competency. Students will have the chance to read authentic German literature, as well as to prepare for the Advanced Placement test in German if they so choose. German 4 students may be integrated into a lower-level German classroom or may propose independent study with the teacher upon approval of the teacher and administration. *Prerequisite(s): German 3.*

Fine Arts

A minimum of 1.0 FA credit is required.

	Grade 9	Grade 10	Grade 11	Grade 12
Studio Arts	Art 1 Visual Arts Design 1 Unified Art	Art 1,2 Visual Arts Design 1,2 Unified Art	Art 1,2, 3 Visual Arts Design 1,2, 3 Unified Art Ceramics 1	Art 1,2, 3, 4 Visual Arts Design 1,2, 3 Unified Art Ceramics 1, 2
Photography	Photography 1 Film Photography	Photography 1, 2 Film Photography	Photography 1, 2, 3 Film Photography	Photography 1, 2, 3, 4 Film Photography
Band	Freshman Band Jazz Band	Concert Band Jazz Band Jazz Ensemble	Concert Band Jazz Band Jazz Ensemble Symphonic Winds	Concert Band Jazz Band Jazz Ensemble Symphonic Winds
Orchestra	Orchestra Harmonia	Orchestra Harmonia Orchestra Philharmonia	Orchestra Harmonia Orchestra Philharmonia Orchestra Sinfonia	Orchestra Harmonia Orchestra Philharmonia Orchestra Sinfonia
Choir	Treble Choir Tenor-Bass Choir	Treble Choir Tenor-Bass Choir Capital Chorale Saturday's Children	Treble Choir Tenor-Bass Choir Capital Chorale Saturday's Children	Treble Choir Tenor-Bass Choir Capital Chorale Saturday's Children
Other Music	Modern Band	Modern Band	Modern Band Music Theory Career Prep	Modern Band Music Theory Career Prep
Drama	Theater 1	Theater 1,2	Theater 1,2,3	Theater 1,2,3

6110 Art 1

Grades: 9-12

1.0 Credit

The Art 1 class is an entry-level full year basic art class designed to expose students to the world of art as well as build confidence and problem-solving skills. Emphasis is placed on Art Production, Art History, and the Elements and Principles of Design. Art I provides an opportunity for students to develop and increase their skills in understanding and creating art. Students will learn about subject matter, media, art history, art methods and techniques. Students will explore drawing, painting, printmaking, sculpture and mixed media. **Art supplies are required and will be covered by class fee. Class fee \$20.00**

6120 Art 2

Grades: 10-12

1.0 Credit

The Art 2 class is a second-level full year art class designed to expose students to the world of art as well as build confidence and problem-solving skills. Emphasis is placed on Art Production, Art History, and the Elements and Principles of Design. Art II provides an opportunity for students to develop and further increase their skills in understanding and creating art. Students will explore subject matter, media, art history, art methods and techniques at the next level. Students will study drawing, painting, printmaking, sculpture, digital arts, and mixed media. **Art supplies are required and will be covered by class fee. Class fee \$25.00. Prerequisite(s): Art 1.**

Fine Arts

A minimum of 1.0 FA credit is required.

6130 Art 3

Grades: 11-12

1.0 Credit

The Art 3 class is an upper level full year advanced art class. Emphasis is placed on Art Production, Art History, exploration of medium and subject matter as well as exposure to the arts within the Helena community. Art 3 provides an opportunity for students to further increase their skills in understanding and creating art on a more independent level. Students will be responsible for researching artists and art projects that peak their interests with guidance from the instructor. Students will create art with consideration of subject matter, media, art history, art methods and techniques at the advanced level. A sketchbook will be kept throughout the year, and students will be responsible for using their sketchbooks to document ideas and plan out projects. ***Various art supplies are required and will be covered by class fee or additional money if student desires more than the provided materials. Class fee \$30.00. Prerequisite(s): Art 1; Art 2.***

6140 Art 4

Grade: 12

1.0 Credit

The Art 4 class is an upper level full year advanced art class. Emphasis is placed on Art Production, Art History, exploration of medium and subject matter as well as Curating & Exhibition of student and community art. Art 4 provides an opportunity for students to further increase their skills in understanding and creating art on a more independent level. Students will be responsible for researching artists and art projects that peak their interests with guidance from the instructor. Students will create art with consideration of subject matter, media, art history, art methods and techniques at the advanced level. A sketchbook will be kept throughout the year, and students will be responsible for using their sketchbooks to document ideas and plan out projects. ***Various art supplies are required and will be covered by class fee or additional money if student desires more than the provided materials. Class fee \$30.00. Prerequisite(s): Art 1; Art 2; Art 3.***

6150 Visual Arts Design 1

Grades: 9-12

1.0 Credit

This is an entry-level course designed to introduce students to the world of design and 3-dimensional art. This “Hands On” art class offers a variety of additive and subtractive concepts exploring the elements and principles of design. Emphasis is put on ideas, design, and execution of individual pieces as well as exploration of materials. Students will learn about media, subject matter, art history, and 3-dimensional artists. Students will work with found objects, repurposed materials, plaster, and other mediums to create work that reflects their knowledge of the course objects as well as the expression of their ideas. ***Class fee \$20 and certain supplies wanted by students will need to be provided.***

6160 Visual Arts Design 2

Grades: 10-12

1.0 Credit

This is a second-level course designed to continue building upon the ideas of design and 3-dimensional art. This “Hands On” art class offers a variety of additive and subtractive concepts to deepen students’ understanding of sculpture and design. Emphasis is put on ideas, design, and execution of individual pieces as well as exploration of materials. Students will enhance their learning about media, subject matter, art history, and 3-dimensional artists. Students will work with found objects, repurposed materials, plaster, glass, metal, ink, printmaking, and other mediums to create work that reflects their knowledge of the course objects as well as the expression of their ideas. There is a class fee of \$20, and extra supplies may need to be provided by the student. ***Class fee \$20 and certain supplies wanted by students will need to be provided. Prerequisite(s): Visual Arts Design 1.***

6170 Visual Arts Design 3

Grades 11-12

1.0 Credit

This is an advanced course designed to work towards mastery of design and 3-dimensional art. This “Hands On” art class offers advanced skills centered around additive and subtractive concepts to deepen students’ understanding of sculpture and design. Students will work independently to create proposals and projects based on their advanced knowledge and skills with guidance from the instructor. Students will choose their materials based on interest and exploration with found objects, repurposed materials, plaster, glass, metal, ink, printmaking, and other mediums. The goal for advanced students will be to create work that reflects their advanced knowledge of the course objects as well as the expression of their ideas. There is a class fee of \$25, and extra supplies may need to be provided by the student. ***Class fee \$20 and certain supplies wanted by students will need to be provided. Prerequisite(s): Visual Arts Design 1; Visual Arts Design 2.***

Fine Arts

A minimum of 1.0 FA credit is required.

6154 Unified Art

Grades: 9-12

1.0 Credit

This is an entry level course designed to introduce students to the world of art and design in an adapted fashion. This class will utilize adapted materials to create Unified Art for all. Unified Art will engage all students with and without disabilities increasing socialization as well as teamwork in creating fine pieces of art. This class provides a unique opportunity for all students at Capital to receive an equal Art Education, as well as for students to receive experience working with others that could be utilized for future careers.

6210 Ceramics 1

Grades: 11-12

1.0 Credit

Students will develop basic wheel and hand building skills. Beginning ceramics students are expected to work in a fast-paced studio environment. Lectures and demonstrations are provided with time for individual work and instructor assistance. Surface decoration, design, and originality are emphasized. Assessment of design principles and their relationship to surface decoration will be emphasized. *Fees: \$30.*

6220 Ceramics 2

Grade: 12

1.0 Credit

Ceramics 2 is an advanced class, designed for students that have completed the basic ceramics coursework. Students will start to develop an individual style in wheel and hand-built work. Advanced students will also receive kiln loading and glaze formation experience. Students will need to work independently. *Fees: \$30. Prerequisite(s): Ceramics 1.*

6250 Photography 1

Grades: 9-12

1.0 Credit

Photo 1 is designed with hands-on lessons providing the real tricks of the trade to capture perfectly exposed & memorable images. Students will learn how to compose photographs, capture movement, produce engaging portraits, and work in the photo studio using classroom cameras, your own nice camera, or smartphones. You'll also learn artistic elements, color theory, & how to work in manual mode on a camera. We will discuss the importance of photography over time, in every culture, and the role it plays in everyday life. Street photography, photojournalism, travel and adventure photography will be a focus along with opportunities to travel and capture such images. You will learn more about editing your images. Students will top off their experience by preparing their work for contests, art shows, & for making gifts. Whether at school, in your home, or on vacation you'll learn how to take pictures like a pro.

6260 Photography 2

Grades: 10-12

1.0 Credit

Been taking pictures for a while? Great! It's time to expand your confidence behind the camera and Photo 2 is your class. You'll quickly review the basics then move into the advanced training from a professional angle. We will dive into sophisticated skills in camera settings, portraiture, editing, personal web sites, camera gear, and how this all relates to social media and future job opportunities in any field. Street, travel, adventure photography, and photojournalism will be a focus along with opportunities to travel and capture such images. The laws of different countries, customs of other cultures, and bridging the gap of differences via photos to promote world peace will be discussed along with how to bring global images to everyday people. Students will top off their experience by printing, framing, and submitting their fine art photo prints to contests and art shows. Prerequisite(s): Photo 1

Fine Arts

A minimum of 1.0 FA credit is required.

6270 Photography 3

Grades: 11-12

1.0 Credit

Ready to dive into the photography you are most interested in, start a business, get your drone's license, or take on AP Photo for college credit? In this upper-level class, you will explore your own style with personal projects creating a portfolio concentrating on complex aspects of exposure, subjects & composition. We will work with advanced skills in the camera menus, gear, & photography genres, along with coupling photography with social engineering to prepare students for a rise in visual literacy jobs. You will spend time focusing on making a statement, connecting to your local photography community, and other topics that to help you be the best photographer you can be. You will learn to editorially document travel & adventure activities to gain an understanding for the constant need for content with social media, magazines, travel guides, blogs, newspapers, & global change initiatives all requiring regular updates and a fresh take on destinations, cultures, and countries. Travel & adventure workshops will be available for capturing impactful images. Students will top off their experience by printing, framing, and submitting their photography to contests and art shows. Prerequisite(s): Photo 2

6280 Photography 4

Grades: 12

1.0 Credit

This class is set up to do a deep dive into an area of photography you love the most such as portraits, drone images, landscapes, travel, street photography, global visual literacy, etc. Or it can be used to launch your photo business at a professional level. You can spend the year working on mastering your skills with cameras, accessories, clients, and worldwide presence. You will focus on fine tuning your photographic images both technically and artistically. Travel, adventure, & portrait workshops/ tours/ presentations will be available for capturing impactful images. Students will top off their experience by printing, framing, and submitting their photography to contests and art shows. Prerequisite(s): Photo 3

6271 Film Photography

Grades: 9-12

1.0 Credit

This course will introduce students to the awesome world of FILM photography— also known as darkroom, vintage, or analog photography. Shooting film is an incredible experience and becoming very popular. Developing your own film, making negatives, producing prints, and seeing how they turn out is so exciting! Plus, a lot of photography concepts become clearer as you learn more about film. Shoot your first roll of film, learn to digitize your images, and have a blast experimenting with a variety of fun vintage cameras- including Polaroid, 35 mm, & pinhole cameras. You will learn the science & art of photography along with the differences & similarities between film & digital. This class is perfect for beginners who want to take amazing photos AND those looking to expand their photo knowledge. It's a perfect class for artists who enjoy multimedia projects. Cameras are provided. No prerequisites & no fees. Plus, you can take Photo 1, 2, or 3 along with this Film Photo class in the same year.

Fine Arts

A minimum of 1.0 FA credit is required.

6300 Freshman Band

Grade: 9

1.0 Credit

This 9th grade ensemble is the introduction to the Capital High School band program. Instruction will focus upon the development of instrumental technique, the establishment of correct practice habits and routines, and the cultivation of ensemble skills. Students will study and perform music which reinforces their on-going musical development and challenges them to advance their skills as they prepare for the more advanced ensembles. In addition to regularly required school performances, this band will also perform at the District Band Festival and other Band Festivals as scheduled. **Prerequisite(s):** *At least one year of previous successful band experience or audition with director.*

6320 Concert Band

Grades: 10-12

1.0 Credit

This ensemble functions as the primary “stepping stone” into the Symphonic Winds. As such, the main objective of the Concert Band is to prepare the student technically and musically to participate at a higher level. Instruction will emphasize the development of instrumental technique and the further refinement of ensemble skills. Students will also study and perform music literature of a variety of styles and genres. In addition to regularly required school performances, this band will also perform at District Band Festival and other Band Festivals as scheduled. Membership consists primarily of students in 10th & 11th grade. **Prerequisite(s):** *Two years previous of successful band experience or audition with the director.*

6330 Modern Band

Grades: 9-12

1.0 Credit

THIS IS NOT A TRADITIONAL BAND CLASS. Do you want to be a Rockstar? Have you ever wanted to learn to: play electric guitar, play electric bass, play drums, play keyboard, sing, play ukulele, play banjo, compose music, write songs, become a rapper, learn about music technology, or learn how to put a band together??? Then Modern Band is the class for you!!! Students will put together a band(s), arrange music of all styles, write and perform their own music, and tour/play performances in and around Helena and Montana...No Experience Necessary!!! All that is needed is a positive attitude and a willingness to learn and act within a team environment. The only prerequisite for this course is that you may not quit band, orchestra, or choir to join. If you are currently a member of the CHS Band, Orchestra, or Choir you must use an extra elective to join.

6360 Symphonic Winds

Grades: 10-12

1.0 Credit

This is the premier band at Capital High School. Membership is made up of students who have achieved a high level of musical proficiency upon their respective instruments. As such, members are primarily 11th and 12th grade students with the possible inclusion of skilled 10th graders. Private lessons on one’s instrument are highly encouraged for all members. This band exists as a laboratory to apply previously learned skills. Students will study and perform advanced literature and focus upon the finer details of music making while raising their standards of excellence through on-going technique development and sight-reading skills. In addition to the required school performances, this band will perform at AA Band Festival, District Band Festival, and will also be afforded every opportunity to travel to a variety of educational music festivals. **Prerequisite(s):** *Three years previous of successful band experience or audition with the director.*

6370 Jazz Band

Grades: 9-12

1.0 Credit

This introductory-level jazz band is intended to provide experience to those interested in exploring the jazz medium. The band is open to all; however, there are some exceptions due to the instrumentation restrictions of the standard jazz literature. Auditions may be required to successfully establish the correct instrumentation. Instruction will focus upon the development of instrumental technique, and the exploration of a variety of jazz styles and idioms. The art of jazz improvisation will be introduced through the study of jazz theory and hands-on practice and performance. In addition to required school concerts, this jazz ensemble may be invited to perform outside of school on numerous occasions. Performances may include festivals, fundraising benefits, and community events. **Prerequisite(s):** *Students must be concurrently enrolled in one of the other bands in the department. Depending upon instrument, concurrent enrollment in an orchestra or chorus may also be accepted. Auditions may be necessary in order to establish correct instrumentation.*

Fine Arts

A minimum of 1.0 FA credit is required.

6371 Jazz Ensemble

Grades: 10-12

1.0 Credit

This is the premier jazz ensemble at Capital High School. Entrance into this group is by audition only. Students will enhance and further develop their individual instrumental technique while refining their advanced ensemble skills. Creative improvisation in a variety of styles will be focused upon through the study of jazz theory and hands-on practice and performance. It is highly recommended that those interested participate in Jazz Band for one year to establish a foundation in jazz styles and harmony. In addition to required school concerts, this jazz ensemble will be required to perform outside of school on numerous occasions. Performances may include festivals, fundraising benefits, and community events. **Prerequisite(s): Students must be concurrently enrolled in one of the other bands in the department. Depending upon instrument, concurrent enrollment in an orchestra or chorus may also be accepted. Admission is through audition with the director.**

6411 Orchestra Harmonia

Grades: 9-12

1.0 Credit

Orchestra Harmonia is open to all Freshmen through Seniors with at least one year of previous orchestral experience; this class is geared toward Freshmen. Orchestra Harmonia is a class where orchestral skills (including technique, posture, leadership, theory, and history) will be emphasized. Students are expected to practice regularly and to come to class prepared to play every day. Other opportunities for students to further their knowledge and basic skills will be achieved through regular concerts and a performance at District Music Festival. It is recommended that students have their own instrument for this class, but rental options are available through the school district. Selection of school instruments is limited and will be based on need. Cello and Bass players will be provided an instrument and bow to use during school rehearsals. **Prerequisite: At least one year of previous orchestral experience (middle school recommended).**

6410 Orchestra Philharmonia

Grades: 10-12

1.0 Credit

Orchestra Philharmonia is open to all Sophomores through Seniors with at least two years of previous orchestral experience, one of those at the high school level; this class is geared toward Sophomores. Orchestra Philharmonia is a class where orchestral skills (including technique, posture, leadership, theory, and history) will be emphasized. Students are expected to practice regularly and to come to class prepared to play every day. Other opportunities for students to further their knowledge and basic skills will be achieved through regular concerts, a performance at District Music Festival, and participation in AA Music Festival. It is recommended that students have their own instrument for this class, but rental options are available through the school district. Selection of school instruments is limited and will be based on need. Cello and Bass players will be provided an instrument and bow to use during school rehearsals. **Prerequisite: Orchestra Harmonia or instructor approval.**

6420 Orchestra Sinfonia

Grades: 11-12

1.0 Credit

Orchestra Sinfonia is open to Juniors and Seniors with at least one year of previous high school orchestra experience. Orchestra Sinfonia will perform at least four concerts, District Music Festival, and AA Festival. Orchestra Sinfonia will be playing very high levels of music; therefore, members will be expected to practice daily. It is recommended that students have their own instrument for this class, but rental options are available through the school district. Selection of school instruments is limited and will be based on need. Cello and Bass players will be provided an instrument and bow to use during school rehearsals. **Prerequisite: At least one previous year of high school orchestra (Orchestra Harmonia or Orchestra Philharmonia) or instructor approval.**

6510 Treble Choir

Grades: 9-12

1.0 Credit

This class is for anyone who sings in the treble range. No student will be refused admittance. Students will study vocal singing technique, music theory, musical expression, music notation literacy, and music appreciation through class participation, performances, and district music festival. **Prior choir experience is helpful, but not necessary. No audition is required.**

6511 Tenor-Bass Choir

Grades: 9-12

1.0 Credit

This class is for anyone who sings in the tenor-bass range. No student will be refused admittance. Students will study vocal singing technique, music theory, musical expression music notation literacy, and music appreciation through class participation, performances, and district music festival. **Prior choir experience is helpful, but not necessary. No audition is required.**

Fine Arts

A minimum of 1.0 FA credit is required.

6530 Capital Chorale

Grades: 10-12

1.0 Credit

This class is a mixed-voice ensemble for students who sing in all ranges. It is specifically for sophomores and older students who have prior experience in choir or who show exceptional ability. Students will study vocal singing technique, music theory, music notation sight-reading, and music appreciation through class participation, performances, and district music festival. *Prerequisite(s): Audition and selection required; Director's signature.*

6570 Saturday's Children

Grades: 10-12

1.0 Credit

This is the most advanced large ensemble at Capital High School. Members are required to have taken Tenor-Bass Choir, Jubiletttes, Treble Choir, or show exceptional ability. This group is a touring choir. Members should be prepared to fund-raise for tours and traveling opportunities. Students will study vocal singing technique, advanced music theory concepts, music notation sight-reading, and music appreciation through class participation, performance, and district music festival. *Prerequisite(s): Audition and selection required; Director's signature.*

6575 Music Theory Careers Prep

Grades: 11-12

1.0 Credit

Music Theory Careers Prep class is intended to guide and educate students who are considering music education or performance as a career path. Through the course, students will gain foundational knowledge of music theory, music technology, ensemble leadership, and career paths. *Prerequisite(s): Concurrent enrollment in a music ensemble.* In order to receive full boar credit, you will have to take both semester 1 & 2 in same school year.

6700 Theater 1

Grades: 9-12

1.0 Credit

Step into the spotlight with Theatre 1! This beginner-friendly course is your gateway to the exciting world of acting, storytelling, and stagecraft. You'll explore the fundamentals of performance, build confidence, and collaborate with your classmates through fun activities like monologues, scene work, and creative projects. No experience? No problem—just bring your imagination and get ready to shine!

6710 Theater 2

Grades: 10-12

1.0 Credit

Take your acting skills to the next level in Theatre 2! Building on what you learned in Theatre 1, this course hones your technique with a focus on developing your voice, expanding its range, and increasing your stage presence through intentional movement and expression. You'll dive deeper into theatrical concepts like monologues, scene work, radio plays, storybook theatre, and more. Get ready to challenge yourself, refine your craft, and bring even more characters to life! *Prerequisite(s): Theater 1. Signature required.*

6720 Theater 3

Grades: 11-12

1.0 Credit

Welcome to Theatre 3—the ultimate stage for dedicated performers ready to push their limits! This advanced course challenges you to refine your craft with deeper character development, advanced vocal and physical techniques, and a sharper focus on storytelling. You'll tackle complex scenes, experiment with different acting styles, and explore directing and production elements. From intense monologues to full-scale performances, this class will prepare you for the next step—whether it's the stage, film, or beyond! *Prerequisite(s): Theater 1 and 2. Signature required.*

Career & Technical Education: Industrial Technologies

A minimum of 1.0 VOC/CTE credit is required.

7170 Intermediate Carpentry & Cabinetmaking Two Hours **Grades: 10-12** **2.0 Credits**

DUAL CREDIT Missoula College: **OSH 110**: OSHA 10 Hour Training & **OSH 130** Introduction to Trades and Trade/Safety/Job Site Ready

*DC Note: Students must meet the college's placement criteria and are responsible for college registration, cost of tuition, and fees.

In this class, students learn the basic terminology and practices of construction, along with furniture building and cabinetmaking. Safe work practices will be instructed and followed. Students will learn the proper use of construction and woodworking tools and their applications. Construction practices taught will include wall framing, stair construction, floor construction, rafter construction, exterior finishing, and finish carpentry. Students will be introduced to other aspects of Building Trades such as Plumbing and Electrical. Students will be introduced to the principles and practices of furniture building and cabinetmaking. Students will construct their own furniture and cabinetmaking projects. Note: A student who fails 1st Semester will have a conference with an administrator, the teacher, and a parent to discuss continued enrollment 2nd Semester. Materials Required: Safety glasses, tape measure, and wood glue bottle, along with materials for projects. Fees: \$40

7180 Advanced Carpentry & Cabinetmaking Two Hours **Grades: 11-12** **2.0 Credits**

DUAL CREDIT Missoula College: **CSTN 120** Carpentry Basics & Rough Framing

*DC Note: Students must meet the college's placement criteria and are responsible for college registration, cost of tuition, and fees.

Students in this class will have the opportunity to further develop their woodworking skills to construct advanced products in construction and/or furniture building/cabinetmaking. Students will continue learning how to safely operate all power and hand tools provided in the lab. Instruction will be by lecture, demonstration and "lots of" hands-on activity. Construction practices taught and demonstrated by students will include wall framing, stair construction, floor construction, rafter construction, exterior finishing and finish carpentry. Students will build sheds or other practical structures to demonstrate and practice their carpentry skills. Students are expected to be ready to build individual cabinet and furniture projects with various joints and a higher degree of difficulty. Proper construction techniques, fastener, hinge installation and finishing practices will be stressed. After completing the required course work, the student will be expected to build projects of his/her own choosing. Examples of projects that may be built are: furniture, tables, cabinets, games, etc.. Students must furnish materials for projects of their choice. **Materials Required: Safety glasses (provided by the school), tape measure, and glue bottle. Fees: \$40**

Career & Technical Education: Industrial Technologies

A minimum of 1.0 VOC/CTE credit is required.

7173 Construction Trades Seminar

Two Hours (P5 & 6)

Grade: 12

2.0 Credits

DUAL CREDIT Missoula College: CSTN 298 Construction Internship

*DC Note: Students must meet the college's placement criteria and are responsible for college registration, cost of tuition, and fees.

For this class students will choose from one of two options:

1. Apprenticeship/Internship for this option, students will find employment with a local building trades company. If the student is entering an apprenticeship after high school graduation, this is an opportunity to begin working in their respective trade during the afternoon gaining valuable work experience and hours toward progressing on the apprenticeship scale. Students who are not entering apprenticeships after high school can find employment as an intern with a local building trades company. The internship option is ideal for someone entering college, trade school or the military following high school graduation. The student will work afternoons gaining valuable work and employability experience to open doors following high school. Examples of building trades companies include the areas of construction, electrical, plumbing, HVAC and cabinet shops. Student will track their hours worked and journal on their experiences to keep track of the on-the-job training they are learning. Students choosing this option must be enrolled in the school's pre-apprenticeship program recognized by the Montana Dept. of Labor and Industry.

-You will be required to touch base often with the instructor. You are expected to be a good employee for the company you are working for either as an apprentice or intern. Your grade will be determined on your weekly journaling of your work experiences and hours along with instructor contact with your supervisor. **You are responsible for providing personal protective equipment and tools not provided by your employer.**

2. Advanced Woodworking/Carpentry for this option, students will engage in design, planning and building of high-end difficult woodworking projects. Students will continue to grow in their ability to use woodworking equipment effectively to produce high quality projects. Project examples include: bedroom sets, dining room table and chairs, kitchen cabinets, living room sets and community projects. Student will continue to improve carpentry skills in the following: wall framing, stair construction, floor construction, rafter construction, exterior finishing and finish carpentry. Students will participate in the construction of sheds or similar structures. Students must furnish materials for projects of their choice. **Materials Required: Safety glasses, tape measure, and glue bottle. Fees: \$40**

Career & Technical Education: Industrial Technologies

A minimum of 1.0 VOC/CTE credit is required.

7210 Auto Skill Tech 1 (NATEF) Two Hours **Grades: 10-12** **2.0 Credits**

This course is designed to acquaint the student with the basic skills and technology of an automobile. This course is divided into the following subject areas: Hand tools and safety, engine theory and rebuild, Cooling systems, Lubrication systems, Brakes, Steering systems, Suspension systems and Alignment. Approximately 60% of the course work will be involved with classroom activities using school owned automotive components. The remainder will be using school owned as well as student owned vehicles. Access to a vehicle is not necessary but encouraged. The cost of student projects will be covered by the student. With the major advances in Automotive Technology students will need a working knowledge of the vehicle and vehicle systems to make necessary repairs. *Note: A student who fails 1st Semester will have a conference with an administrator, the teacher, and a parent to discuss continued enrollment 2nd Semester.* **Materials Required: Safety glasses.**
Fees: \$80.

7220 Adv. Auto Tech 2 (NATEF) Two Hours **Grades: 11-12** **2.0 Credits**

This course is designed for the student who has an interest in an in-depth study of the automotive industry. The course is divided into the following subject areas: Basic Electricity, Starting Systems, Charging Systems, Computer Controls, OBD I and II, Fuel Systems and Ignition Systems, The class will be divided between the classroom and shop activities. Approximately 50% of the class will be spent in the classroom and the other 50 % spent in the shop. Students are encouraged to have a vehicle to work on but it is not a requirement for the class. The cost of student projects will be covered by the student. *Note: A student who fails 1st Semester will have a conference with an administrator, the teacher, and a parent to discuss continued enrollment 2nd Semester.*

Materials Required: Safety glasses.

Fees: \$80.

Prerequisite(s): Auto Skill Tech 1.

7203 Auto Tech 3 (NATEF Certification) Two Hours **Grade: 12** **2.0 Credits**

DUAL CREDIT Helena College: AUTO 104 Automotive Mechanics

**DC Note: Students must meet the college's placement criteria and are responsible for college registration, cost of tuition, and fees.*

This course is designed for the student who has an interest in pursuing post-secondary education or pursuing a career in the automotive field of study. Advanced diagnostic practices will be discussed in this class. Other subject matter covered in this course is: Transmissions (Automatic and Manual), Transfer cases, Advanced Computer Diagnostics, Drivelines and Drive Axles, Traction Control and ABS. Approximately 30% of the class will be spent in the classroom and 70% will be spent in the shop. Students are encouraged to have projects to work on but are not required. The cost of student projects will be covered by the student. *Note: A student who fails 1st Semester will have a conference with an administrator, the teacher, and a parent to discuss continued enrollment 2nd Semester.* **Materials Required: Safety glasses.**

Fees: \$80.

Prerequisite(s): Adv. Auto Tech 2 (C or higher recommended).

Career & Technical Education: Industrial Technologies

A minimum of 1.0 VOC/CTE credit is required.

7230 Welding 1

Grades: 10-12

1.0 Credit

This introductory technical welding course is designed to build strong foundational skills, with a primary focus on Shielded Metal Arc Welding (SMAW). Students will also gain hands-on experience with additional processes, including Gas Metal Arc Welding (GMAW), Plasma Arc Cutting, and Oxy-Acetylene Cutting. In addition to welding processes, students will be introduced to manual machining, basic metallurgy, metal fabrication techniques, CNC plasma cutting, and an entry-level overview of Mastercam software to support project design and fabrication. Throughout the course, students will complete assigned weld coupons, cutting exercises, and at least one full fabrication project each semester. During the second semester, students will prepare for future AWS certifications by completing a 7018 open V-groove 1G weld test, including performing their own bend tests. **Note:** *Students who do not successfully complete the first semester will participate in a conference to evaluate readiness and eligibility for enrollment in the second semester.* **Materials Required:** **Welding gloves, pliers, coveralls, *safety glasses, leather boots, 1" 3-ring binder. Welder's cap is recommended.* **Fees:** *\$40 (*includes costs for gloves and safety glasses).*

7240 Welding/Machining 2

Two Hours

Grades: 11-12

2.0 Credits

First semester is an advanced course in which students will develop skills in out-of-position welding using GMAW-Spray, Flux Core Dual Shield, Short Circuit, and Self Shielding core wire and SMAW processes. Students will also strengthen torch cutting skills using Oxy/Fuel, Air Carbon Arc, and Plasma cutting processes. Students develop skills in Computer Aided Design (CAD), introductory CNC milling machining through related projects. Students will also learn blueprint reading, drafting, project material calculation, and drill bit sharpening. All welding during the first semester will be done on practice coupons until the student reaches a high enough level of proficiency to consistently produce quality welds. Second semester will focus on GTAW, making project plans, developing bill of materials for projects, welding project fabrication of personal welding projects, learning welding symbols for blueprint reading, micrometer reading, threading, introduction to CNC lathes and advancing milling machine operational and programming skills. Throughout the year students will also be learning and working through a "work ethic" training program that is designed to help prepare students for the real world of work. Students will be required to pay for the materials for all personal projects while in class. **Note:** *A student who fails 1st Semester will have a conference with an administrator, the teacher, and a parent to discuss continued enrollment 2nd Semester.* **Materials Required:** *Welding helmet, welding gloves, pliers, wire cutters, coveralls, safety glasses, leather boots, 3-ring binder with dividers, USB thumb drive, and calculator.* **Fees:** *Students will cover the cost of their own projects.* **Prerequisite:** *Welding 1 (C or better recommended).*

7250 Welding 3

Two Hours

Grade: 12

2.0 Credits

The focus of this course will be to strengthen and advance student welding, engineering, and fabrication skills as they apply to personal welding projects, welding careers, and related industrial certifications. All costs of projects will be assumed by the student. Students in this course will focus on the fabrication of advanced personal welding projects, strengthening blueprint reading skills, advanced torch cutting and metal fit-up techniques and training for AWS welding certifications in 3g and 4g positions. AWS certifications will be done on 3/8" or 1" plate in Flux Core Dual Shield and Shielded Metal Arc Welding processes with 7018 welding rod. All students will be required to get certified in these two areas and can also earn additional certifications in Gas Tungsten Arc Welding. Students will also learn cutting and fitting of pipe and various structural steels using various cutting processes and methods. All students will do a job shadow with a Montana Welding business at the end of 2nd Semester. This course is offered as dual credit in conjunction with the Helena College and Great Falls College welding programs. **Note:** *A student who fails 1st Semester will have a conference with an administrator, the teacher, and a parent to discuss continued enrollment 2nd Semester.* **Materials Required:** *Welding helmet, welding gloves, pliers, wire cutters, coveralls, safety glasses, leather boots, 3-ring binder with dividers, USB thumb drive, and calculator.* **Fees:** *Students are responsible for the cost of their own project materials.* **Prerequisite(s):** *Welding/Machining 2 (C or better recommended).*

Career & Technical Education: Industrial Technologies

A minimum of 1.0 VOC/CTE credit is required.

7255 Machining 3

Two Hours

Grade: 12

2.0 Credits

DUAL CREDIT Helena College: MCH 234 CNC Milling Operations, Flathead Valley Community College MCH-122-44

**DC Note: Students must meet the college's placement criteria and are responsible for college registration, cost of tuition, and fees.*

The focus of this course will be to strengthen and advance student CNC machining and engineering skills as they apply to personal machining projects, machining and mechanical engineering careers, and related industrial certifications. Students in this course will focus on the design and CNC machining of advanced machining projects using CNC mills and lathes. Students will train to become Haas Milling Operator certified as well as NIMS CNC Mill Operator certified. All seniors in the program will enter Mastercam Software's National Wildest Parts machining contest with a senior project of their choice during the spring semester. All students will do job shadows at the end of 2nd semester with a Montana manufacturing businesses. Students will learn advanced solid modeling, advanced programming in 2d, 3d, and 4th axis for milling and lathe using Mastercam software, blueprint reading, basic G D and T, work holding techniques, and manual G and M code programming for CNC mills. This course is project based and all machining principles, knowledge, and techniques will be taught through a wide variety of exciting student projects such as making custom hunting knives and custom fishing rods Note: A student who fails 1st Semester will have a conference with an administrator, the teacher, and a parent to discuss continued enrollment 2nd Semester.

Fees: Students are responsible for the cost of their own project materials.

Prerequisite(s): Welding/Machining 2 (C or better recommended).

Career & Technical Education: Business Education

A minimum of 1.0 VOC/CTE credit is required.

BUSINESS/MARKETING/TECHNOLOGY EDUCATION

The ability to use computers to perform everyday tasks is one of the most important skills for the 21st Century. Business-related skills and interpersonal skills permeate every aspect of our lives, regardless of our chosen career field. These skills will also carry over into all other high school curriculum.

In today's technological world, business skills give the extra edge when competing for jobs whether in Montana, the United States, or the world. The Business program at Capital High School helps to prepare students by placing emphasis on the development of each student's ability and potential. Work ethics are expected and learned through everyday class procedures. It is our goal to provide students with rigorous, relevant courses that will better prepare them for the real-world.

BUSINESS/MARKETING/TECHNOLOGY EDUCATION COURSE OFFERINGS

Grade 9	Grade 10	Grade 11	Grade 12
Basic Computer Skills	Basic Computer Skills	Basic Computer Skills	Basic Computer Skills
Technology Skills for Life	Technology Skills for Life	Technology Skills for Life	Technology Skills for Life
Yearbook	Finance	Finance	Finance
Robotics	Basic Elements of Graphic Design (Photoshop)	Basic Elements of Graphic Design (Photoshop)	Basic Elements of Graphic Design (Photoshop)
Marketing Ed 1	Graphic Design II	Graphic Design II	Graphic Design II
	Microsoft Office WORD*	Law & Justice	Law & Justice
	Microsoft Office EXCEL*	Microsoft Office WORD*	Microsoft Office WORD*
	Accounting 1	Microsoft Office EXCEL*	Microsoft Office EXCEL*
	Yearbook	Accounting 1	Accounting 1
	Yearbook 2	Yearbook	Yearbook
	Computer Science	Yearbook 2	Yearbook 2
	AP Computer Science Principles	Computer Science	Computer Science
	Video Broadcasting	Computer Science 2	Computer Science 2
	Robotics	AP Computer Science Principles	AP Computer Science Principles
	Marketing Ed 1	AP Computer Science A	AP Computer Science A
	Small Business Management	Video Broadcasting	Video Broadcasting
	Sports & Enter. Marketing	Video Broadcasting 2	Video Broadcasting 2
	Business Co-Op**	Robotics	Robotics
		Marketing Ed 1	Marketing Ed 1
		Small Business Management	Small Business Management
		Sports & Enter. Marketing	Sports & Enter. Marketing
		Marketing Management	Marketing Management
		Business Co-Op**	Business Co-Op**

* This course is available for dual credit through Helena College.

**Must be concurrently enrolled in another Business or Marketing class to take this course.

Business Professionals of America (BPA)

This organization prepares students for the business workforce through advancement of leadership, citizenship, academic, and technological skills.

Distributive Education Clubs of American (DECA)

Marketing Education related activity open to all students enrolled in the Marketing classes.

Career & Technical Education: Business Education

A minimum of 1.0 VOC/CTE credit is required.

7301 Basic Computer Skills

Grades: 9-12

.5 Credit

This class is designed for the student who desires to improve their overall keyboarding skills. This semester class will focus on learning the alphabetic and numeric keyboard and symbols by touch using proper technique, as well as use Microsoft Word to create, write, and format personal documents such as memos letters, reports, and tables. Grades are based on the quality of daily class work and projects, speed and accuracy, practice, tests, and work habits.

7304 Technology Skills for Life

Grades: 9-12

.5 Credit

Students will enhance their skills in business applications through the use of digital technology. This semester length course will focus on document processing, spreadsheets, and presentations using Microsoft Office Word, Excel, and PowerPoint. Improving keyboarding speed and accuracy will also be a focus of this course. Students will demonstrate the ability to use the Microsoft Office suite of applications and gain exposure to various applications of technology in the business world. **Recommended Prerequisite: Basic Computer Skills is recommended first if student's keyboarding skills are less than 25 words per minute.**

DUAL CREDIT: Highlands College: CAPP 131 Basic MS Office if students complete both 7301 & 7304 in the same school year

7310 Personal Finance

Grades: 10-12

1.0 Credit

Finance will prepare you to make wise consumer decisions, prepare you for future employment, and teach you to apply business principles to your personal life. This course also serves as a background for other business courses you may take in high school and in college. Do you know how to manage a checking account? Will you run out of money before your bills are paid? Why does car insurance cost so much? How does the stock market work? Why do some pay less when they buy a car just like yours? Are you entitled to an income tax refund? Why is good credit so important? Should you sign a lease when you rent? Learn the answers to these questions and more.

7322 Basic Elements of Graphic Design with Adobe Photoshop

Grades: 10-12

.5 Credit

Are you interested in acquiring greater skills in Photoshop? You'll learn to edit photographs and manipulate graphics to produce quality images. Students are encouraged to use creativity, independence, and rules of design throughout the lessons. This is a great class for both beginners and experienced Photoshop users. The course starts with the basics on how to use Photoshop, and through a variety of projects, students learn how to become independent with their Photoshopping skills. Projects utilize student photos or Internet images and focus on manipulating them into fun designs.

7320 Graphic Design 2 (Adobe Photoshop and other software)

Grades: 10-12

.5 Credit

Graphic Design 2 will continue to build on concepts taught from Basic Elements Graphic Design. This course explores the commercial aspects of art and continuing the practice of photo manipulation. Techniques include freehand drawing within design software, lettering, and computer enhancement for commercial advertising, posters and illustrations. Software utilized can include Photoshop, InDesign, Illustrator, and other programs. The class will be more project orientated which will allow students to use their newly acquired software skills and their creativity. **Prerequisite: Basic Elements of Graphic Design**

Career & Technical Education: Business Education

A minimum of 1.0 VOC/CTE credit is required.

7340 Law & Justice Grades: 11-12 .5 Credit

No one – whatever age or occupation – can escape the influence and effects of law. By providing wide exposure to the legal rights and responsibilities of people in many circumstances, Law & Justice covers a broad base of everyday legal activities in which an individual is likely to become involved. Topics include criminal and civil law, contracts, consumer protection, and personal property. Many speakers from Helena’s legal community will visit the class. Students will participate in a crosstown mock trial. ***Law & Justice is NOT a pre-law course.***

7360 Microsoft Word Grades: 10-12 .5 Credit

This is an in class, facilitator led, independent study course. Microsoft Word is a word processing application used as a tool for creating professional-looking documents. Students will use Word to create text-based documents such as letters, memos, reports, flyers, and newsletters. The course is set up where the students will be challenged to apply what they have learned by completing projects at the end of each chapter.

7361 Microsoft Excel Grades: 10-12 .5 Credit

DUAL CREDIT Helena College: CAPP 156 MS Excel **DC Note: Students are responsible for college registration, cost of tuition, and fees.* This is an in class, facilitator led, independent study course. Microsoft Excel is a tool for creating professional-looking spreadsheets. Students will learn to use Excel to build and analyze business, personal, or financial documents that our information-driven world today demands from businesses. Students will use Excel to create spreadsheets and charts and incorporate data, conditional formatting, formulas, functions, charts, and pivot tables. The course is set up where the students will be challenged to apply what they have learned by completing projects.

7370 Accounting 1 Grades: 10-12 1.0 Credit

Accounting is the language of the business world. Accounting will help students understand the financial activities of a business and will better prepare them to make wise financial decisions and maintain personal financial records. Students will learn the basic principles of the accounting cycle from analyzing and recording everyday transactions to preparing and interpreting financial statements and supporting data. Accounting for sole proprietorships is emphasized, including special journal accounting procedures. Activities from both a service and merchandising business, including payroll and related taxes are covered.

7380 Business Cooperative Grades: 11-12 .5 or 1.0 Credit

Cooperative business and marketing education is a program in which business students who, through a cooperative arrangement between the school and employers, receive classroom instruction and related on-the-job training in a business occupation. Students accepted for this program will be released from school one class period each day upon availability of employment and will work in a Helena-area business for at least minimum wage. Students are graded on work hours, assignments, conferences, and work supervisor evaluations. **Students must have a job**, must furnish own transportation, and must be at least 16 years old to participate. **Prerequisite(s): Students must be concurrently enrolled in any CTE (7000#) class along with this course to qualify.**

Career & Technical Education: Business Education

A minimum of 1.0 VOC/CTE credit is required.

BUSINESS RELATED COURSES

7309 Robotics

Grades: 9-12

1.0 Credit

Introduction to Robotics will offer students the opportunity to design, build and program a variety of robots using materials and programming languages, as they apply the fundamentals of science, math, and technology. The course will introduce the engineering process while constructing robots. This course does not replace the traditional math and science courses needed to pursue a degree in engineering. It supplements the experience so students will appreciate the connection between robotics and engineering. Students will apply core concepts of traditional sciences. Students will learn to use two different programming languages and should have a high interest in robotics. ***Prerequisites: Algebra I (B or higher is recommended) and keyboarding skills.***

7402 Yearbook

Grades: 9-12

1.0 Credit

The Capital Dome staff publishes the school yearbook. Members choose a theme, design the cover, lay out pages and prepare copy via desktop publishing, take and crop photos, and sell the annuals and ads. Members will spend considerable time outside class as necessary – including weekends and summer camp. Strong writing skills are required, and interest in journalism, art, business, and computers is encouraged. This elective course focuses on making and completing yearbook layouts. Any student wanting to be in Yearbook 2 must be enrolled in this course. ***Eligible for VOC credit, with counselor approval. Prerequisite(s): Application and selection required.***

7404 Yearbook 2 (Must be concurrently enrolled in Yearbook)

Grades: 10-12

1.0 Credit

This is the lab course for yearbook. It is a second course that can be taken in addition to Yearbook. Students have more one on one time to learn publishing skills and editing photos, as well as more time to make professional, completed layouts. Editors are required to take this course. ***Eligible for VOC credit, with counselor approval. Prerequisite(s): Concurrent enrollment in Yearbook -AND- application and selection required.***

Career & Technical Education: Computer Technology

A minimum of 1.0 VOC/CTE credit is required.

7311 Computer Science

Grades: 10-12

1.0 Credit

Computer Science is for students with a desire to develop programming fundamentals. The Python programming language will be used in Year 1. Computer Science concepts such as algorithms, data structures, graphics, and game design will be explored. Students can take up to 6 semesters of computer science.

7313 Computer Science 2

Grades: 11-12

1.0 Credit

Computer Science 2 builds on prior knowledge gained from Computer Science 1. Students will transition from the Python programming language to C# utilizing the Unity Game Development program to create personal interest projects. It is a requirement to have previously taken Computer Science 1 or have written approval from the teacher.

7312 AP Computer Science Principles

Grades: 11-12

1.0 Credit

**Special Note: Registering for an AP or Honors course is meant to be a YEAR-LONG COMMITMENT. If you wish to drop an AP or Honors course, you will have to wait until one week after the semester begins.*

Code.org's Computer Science Principles (CSP) is an AP approved curriculum. This is a rigorous, full year entry level course that introduces high school students to the foundations of modern computing. The course covers a broad range of foundational topics such as programming, algorithms, the Internet, big data, digital privacy and security, and the societal impacts of computing. It is meant to be an inviting introduction to computer science for a wide, diverse population of students. The course contains nine core units of study, with a tenth unit devoted almost exclusively to students working on their AP Performance Task (PT) projects. **Note: the performance task submission deadline is the end of April, and the written AP Exam is in Early May. Prerequisites: Successful completion of Algebra I**

7314 AP Computer Science A

Grades 11-12

1.0 Credit

**Special Note: Registering for an AP or Honors course is meant to be a YEAR-LONG COMMITMENT. If you wish to drop an AP or Honors course, you will have to wait until one week after the semester begins.* AP Computer Science A is programming in Java.

Fundamental topics in this course include the design of solutions to problems, the use of data structures to organize large sets of data, the development and implementation of algorithms to process data and discover new information, the analysis of potential solutions, and the ethical and social implications of computing systems. The course emphasizes object-oriented programming and design. Solutions of problems will be written in the Java programming language. This course covers far more features than could be covered in a single introductory class. It is highly recommended students take Computer Science, AP Computer Science Principles, or have prior programming experience. **Note: The written AP exam is in Early May. Prerequisites: Successful completion of Algebra 1.**

7324 Video Broadcast (Bruin Vision)

Grades: 10-12

1.0 Credit

Lights! Camera! ACTION! Have you ever thought it would be fun to create your own videos? This course is designed to give you an overview and hands-on experience of film production. Editing video starts with an understanding of camera movement, video composition, lighting, sound, editing and other essential elements. In this class, you will explore these elements of film making and then apply these elements to your own productions. This class is group and project based.

7326 Video Broadcast 2 (Bruin Vision)

Grades: 11-12

1.0 Credit

This class is a ONE HOUR continuation of Video Broadcast 1 and allows students to continue with their film and video making, but also incorporate how to add special effects to these productions. Video Broadcast 2 will expand Video Broadcast 1 by teaching all the aspects of the Adobe Production Suite Including: Premiere, After Effects, Audition, Animator, Encoder, Bridge, and Photoshop. Learn how to make your videos more exciting with special effect sequences. Class may require after-school filming. Class may be repeated for credit. Prerequisite(s): Video Broadcast 1.

Career & Technical Education: Marketing Education

A minimum of 1.0 VOC/CTE credit is required.

7400 Marketing Ed. 1

Grades: 9-12

1.0 Credit

Dive into the exciting world of marketing with this hands-on, project-based course designed to introduce students to the core principles and strategies of the industry. In *Marketing Education 1*, students will explore foundational marketing concepts and apply them to real-world scenarios. Topics covered include the marketing mix and marketing functions, market segmentation and targeting, SWOT analysis and business strategy, product life cycle, branding, promotion, selling, social media marketing, marketing information management and consumer behavior, distribution, pricing strategies, and economics. Through interactive projects and collaborative learning, students will develop practical skills in planning and executing marketing campaigns, analyzing market trends, and understanding the role of marketing in today's economy. This course prepares students for advanced marketing studies and future career opportunities in business and marketing fields. This class allows for opportunities in DECA, which plans and implements Night to Shine, an annual talent show. DECA prepares emerging leaders and entrepreneurs for careers in marketing, finance, hospitality, and management in high schools and colleges around the globe.

7412 Sports & Entertainment Marketing

Grades: 10-12

1.0 Credit

This hands-on, project-based course takes students deeper into the world of marketing by focusing on the exciting industries of sports and entertainment. Designed for those with a passion for events and creativity, the class expands on core marketing concepts and theories, applying them to real-world scenarios in sports and entertainment marketing. Students will also actively assist in planning and promoting school athletic events, theater productions, and music performances. Key topics include the history and evolution of sports and entertainment marketing, sports and entertainment marketing principles and applications, creating and executing marketing plans, branding, licensing, sponsorships and endorsements, promotion, ticket sales and game day operations, entertainment strategies and event management, marketing communications and public relations, and careers in sports and entertainment marketing. Through collaborative projects, students will develop skills in event planning, campaign execution, and marketing strategy. This course provides valuable experience for students interested in pursuing careers in marketing, sports, entertainment, and event management. This class allows for opportunities in DECA, which plans and implements Night to Shine, an annual talent show. DECA prepares emerging leaders and entrepreneurs for careers in marketing, finance, hospitality, and management in high schools and colleges around the globe. ***Prerequisite(s): Marketing Education 1 or instructor approval.***

7413 Marketing Management

Grades: 11-12

1.0 Credit

Marketing Management is a course that will expand on the entrepreneurial and management requirements of a business owner. Becoming an entrepreneur, learning to work with other students, and making management decisions are taught in this course. Students will accomplish this by working together as a team of managers to operate and manage the Capital High School store, Bear Necessities. Bear Necessities is a school-based enterprise and retail training laboratory where students obtain skills and hands-on experience in areas such as financial analysis, human resource management, information management, professional development, strategic/channel management, pricing, selling, product/service management, and promotion. This class allows for opportunities in DECA, which plans and implements Night to Shine, an annual talent show. DECA prepares emerging leaders and entrepreneurs for careers in marketing, finance, hospitality, and management in high schools and colleges around the globe. ***Prerequisite(s): Small Business Management or instructor approval.***

7414 Small Business Management

Grades: 10-12

1.0 Credit

This hands-on, project-based course introduces students to the fundamentals of entrepreneurship and small business management. Designed for aspiring business leaders and entrepreneurs or those who have an entrepreneurial spirit, the class emphasizes practical skills and real-world application. Students will explore the steps to starting and running a successful business, including developing business ideas and writing comprehensive business plans, crafting effective marketing strategies, identifying funding sources and managing finances, understanding accounting principles for small businesses, and navigating human resource management. Through collaborative projects, students will create their own business concepts and plans, analyze market opportunities, and develop strategies for success. This course encourages creativity, critical thinking, and teamwork, providing the foundation for entrepreneurial ventures and future career opportunities. Whether you are moving into higher education or entering the working world, SBM will provide an easier understanding of advanced business principles. This class allows for opportunities in DECA, which plans and implements Night to Shine, an annual talent show. DECA prepares emerging leaders and entrepreneurs for careers in marketing, finance, hospitality, and management in high schools and colleges around the globe.

Career & Technical Education: Culinary

A minimum of 1.0 VOC/CTE credit is required.

7535 Culinary Arts 1-2

Grades: 9-12

1.0 Credit

This is a year-long course that provides students with a basic knowledge and application of food preparation skills within a lab setting. Students will gain an understanding of: food safety and sanitation, healthy food selection and preparation skills, and consumer skills that will allow for more informed decisions. The nutritional component looks at nutrition as it relates to good health and the concept of eating “whole” foods vs. convenience foods. The second part of the class focuses on more advanced cooking skills, provides an opportunity for creativity, and explore careers that relate to the Culinary/Hospitality Industry.

Note: Students must pass Culinary 1 to be eligible for Culinary 2.

Fees: \$60.

7540 Culinary Arts 3

Grades: 10-12

1.0 Credit

Culinary Arts 3 is an exciting year-long career awareness course designed to further the interest of those students who are interested in a career within the food and hospitality industry. The course is based on the National Restaurant Association “Pro start” program which provides training in all aspects of culinary careers. There will be labs provided in this class. This course offers an entrepreneurial/marketing component that allows the students to run the class as a business and includes some catering experience. A cooperative part time work program can be arranged for those that qualify. **Fees: \$60.**

Prerequisite(s): 7535-Culinary Arts 1 & 2.

7515 Unified Culinary Arts

Grades: 10-12

1.0 Credit

Unified Culinary Arts is designed to engage students in the culinary experience alongside peers of all disabilities, helping foster important social relationships, teamwork, and life skills! This is a year-long elective course that provides students with a basic knowledge and application of food preparation skills within a lab setting. Students will gain an understanding of food safety and sanitation, healthy food selection and preparation skills, and consumer skills that will allow for more informed decisions. It is recommended that unified partners complete Culinary Arts 1.

Career & Technical Education: Biomedical Sciences

A minimum of 1.0 VOC/CTE credit is required.

BIOMEDICAL SCIENCES OPTIONS

PROJECT LEAD THE WAY® BIOMEDICAL SCIENCES Project Lead The Way® Biomedical Sciences is a high school program designed for students interested in Health Science careers. The program is divided into four sections, each section building upon the previous. This dynamic program uses hands-on, real-world problems to engage and challenge students. Students interested in math, science, and the human body will find the PLTW Biomedical Sciences program a great introduction to the numerous medical fields. It will also teach them how the skills they learn are used in the biomedical sciences. The Biomedical Sciences program is integrated into the high school curriculum. It is designed to augment the high school science and math college preparatory programs to establish a solid background in biomedical science. Courses count for either Career and Technical Education or general elective credit however they DO NOT replace any college preparatory science classes.

7610 Principles of Biomedical Sciences (BioMed 1) Grades: 9-11 1.0 Credit

DUAL CREDIT University of Montana: AHMS 144, Medical Terminology (350+ on PTLW Exam)

In this course, students explore concepts of biology and medicine as they take on roles of different medical professionals to solve real-world problems. Over the course of the year, students are challenged in various scenarios including investigating a crime scene to solve a mystery, diagnosing, and proposing treatment to patients in a family medical practice, to tracking down and containing a medical outbreak at a local hospital, stabilizing a patient during an emergency, and collaborating with others to design solutions to local and global medical problems.

7620 Human Body Systems (BioMed 2) Grades: 10-12 1.0 Credit

DUAL CREDIT University of Montana: BIOH 112 (350+ on PTLW Exam)

Students examine the interactions of body systems as they explore identity, communication, power, movement, protection, and homeostasis. Students design experiments, investigate the structures and functions of the human body, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration. Exploring science in action, students build organs and tissues on a skeletal manikin, work through interesting real-world cases and often play the role of biomedical professionals to solve medical mysteries. **Prerequisite(s): 7610 Principles of Biomed or 4200-Biology 1. Av**

7630 Medical Interventions (BioMed 3) Grades: 11-12 1.0 Credit

DUAL CREDIT University of Montana: BIOH 113 (390+ on PTLW Exam)

Students investigate a variety of interventions involved in the prevention, diagnosis and treatment of disease as they follow the lives of a fictitious family. The course is a “how-to” manual for maintaining overall health and homeostasis in the body as students explore how to prevent and fight infection; how to screen and evaluate the code in human DNA; how to prevent, diagnose and treat cancer; and how to 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. Each family case scenario introduces multiple types of interventions and reinforces concepts learned in the previous two courses, as well as presenting new content. **Prerequisite(s): 7620-Human Body Systems.**

7640 Biomedical Innovation (BioMed 4) Grade: 12 1.0 Credit

Students design innovative solutions for the health challenges of the 21st century. They work through progressively challenging open-ended problems, addressing topics such as clinical medicine, physiology, biomedical engineering, and public health. Students will job shadow in a field of interest or work on an independent project with a mentor from a university, hospital, or research institution. At the end of the course, students are expected to present their work to the public at a symposium at the Lewis and Clark Public Library. This course is designed for 12th grade students.

Prerequisite(s): 7630-Medical Interventions -OR- three science classes/Concurrently Enrollment.

Career & Technical Education: Health Careers

A minimum of 1.0 VOC/CTE credit is required.

9330 Athletic Training/First Aid

Grades: 10-12

.5 Credit

Students who take this class will learn basic principles of Athletic Training and Sports Medicine. These experiences will include: injury assessment, care and prevention, treatment, and special testing. The students will also learn taping procedures and rehabilitation through hands on experience and lab based practices. The class also includes terminology and differential diagnosis. *Prerequisite(s): Health*

9351 Health Careers Exploration

Two Hours

Grades: 11-12

2.0 Credit

The Health Careers Exploration Class is a two-hour class designed to provide high school students with the opportunity to develop the skills and knowledge for the health occupations. The class is yearlong and is offered as an elective class to juniors and seniors. The class emphasizes training in medical terminology, basic health care skills, basic human anatomy, safety practices and ethics. Instruction is delivered through classroom, laboratory, practicum and job shadowing settings. After successful completion of this class the student will be eligible to obtain CNA (Certified Nursing Assistant) certification, and students will find options for employment or further education in health care professions.

Prerequisite(s): Two (2) years of Math -AND- two (2) years of Science -AND- application & selection required

Specialized Courses

8140 Library Media Tech **Grades: 11-12** **1.0 Credit**

Libraries are so much more than book storage: marketing and advocacy are just as important as knowledge of literature and technology. Job skills such as punctuality, attendance, enthusiasm, and attention to detail are emphasized as well as professionalism and courtesy. This class is performance-based as is any job and can provide students with employment references. Only offered periods 1-6. Prerequisite(s): **Application and selection are required.**

8204 Helena College **Ages 16 & Older** **College Credit**

College courses cannot be taken in lieu of required high school courses. Students must meet entrance and financial obligations imposed by Helena College. See your counselor for program information and application for enrollment. **Prerequisite(s): Application and admission are required.**

8261 Native American Tutoring **Grades: 9-12** **0 Credit**

Native American Tutoring is an ungraded course that is dedicated to help Native American students achieve academic success by giving them an extra class period of quiet continuous study time to complete work from other classes. This course is staffed by an academic tutor who works with students on homework, organization, and communication between home and school. **Prerequisite(s): Students must have a current Title VII Student Eligibility Certification Form (506 Form) on file, available from your school counselor or Indian Education Tutor.**

8360 Credit Recovery **Grades 10-12** **Variable Credit**

Credit Recovery is an opportunity for CHS students to retake a course in which he/she previously was not academically successful in earning credit towards graduation. Credit is awarded as coursework is completed. **Prerequisite(s): A student must have already attempted the course (with good attendance-no more than 20 absences in a semester) and failed before he/she is eligible for Credit Recovery.**

8510 Study Hall-S1 **Grades: 9-12** **0 Credit**

8512 Study Hall-S2 **Grades: 9-12** **0 Credit**

Study Hall is an ungraded course that is dedicated to help students achieve academic success by giving them an extra class period of quiet continuous study time to complete work from other classes.

Assistant Positions **Grades 9-12** **0 Credit**

Assistant positions are a great way to gain basic work experience for use on resumes and other applications. Positions are available in the Main Office, Attendance Office, Career Center, Library, and with individual teachers. Applications are available during the first 2 weeks of each semester. If interested in an Assistant Position, please see your counselor. **Prerequisite(s): Application and selection are required.**

8115 Internship-Semester **Grades 11-12** **.5 Credit**

This is a .5 elective credit opportunity where students spend 4 hours per week on-site in a work setting that interest them. The internship is not paid. Students must apply to be an intern, and enrollment is limited. An internship requires maturity and professional behavior and is limited to juniors and seniors. A resume, cover letter, and interview are required. Not all placements are possible. Because of HIPPA, many medical and health care settings are not possible. Also, because of privacy, internships in accounting and law are usually not possible. If interested in an Internship, please see your counselor.

Physical Education and Health

A minimum of 1.5 HP and .5 HE are required.

Physical Education and Health Course Offerings			
Grade 9	Grade 10	Grade 11	Grade 12
Required (pick one)	All students take both	No PE Requirements	No PE Requirements
Freshman Physical Education	Health		
Freshman Weight Training	Sophomore Physical Education	PE Electives	PE Electives
	PE Electives	Personal Wellness	Personal Wellness
	Personal Wellness	Advanced Weight Training	Advanced Weight Training
	Advanced Weight Training	Unified PE	Unified PE
	.	Lifetime Sports	Lifetime Sports

Hygiene-For all Physical Education classes changing into and out of physical education attire is a requirement.

Safety - Students will need to wear a pair of athletic shoes each day.

School Issued Equipment - All students will be assigned a school issued lock and locker for use each day. It is the responsibility of the student to turn in the lock at the end of the semester/school year.

9100 Frosh Physical Education **Grade: 9** **1.0 Credit**

This course offers a variety of skill-based activities to promote an environment where all ability levels can have fun and be successful. Freshman PE focuses on group participation in enjoyable activities that promote athletic skill development, and the knowledge of activities a student can participate in throughout their lifetime. Students will engage in games like basketball, volleyball and flag football, as well as individual activities like cross country skiing, bicycle safety and skills, circuit training and yoga. The focus will be on achieving and maintaining physical fitness, while learning about the value of physical activity for health and wellness, helping students develop a positive self-image.

9343 Freshman Weight Training **Grade: 9** **1.0 Credit**

An introductory, hands-on training class for students who are ready to challenge themselves and learn the essentials of the weight room. In this course, you'll build strength, confidence, and solid technique while learning how to train safely and effectively. We'll cover the basics of powerlifting, bodybuilding, functional fitness, circuit work, mobility, flexibility, speed development, and goal setting. *This class will satisfy the freshman PE requirement.*

9200 Soph Physical Education **Grade: 10** **.5 Credit**

Sophomore Physical Education is our students' final semester of required PE. This daily PE routine includes many activities new and exciting to student learning. Attention is directed at the health and wellness of the entire person which includes physical, mental/emotional, and social health. Activities include but are not limited to tennis, ultimate, lacrosse, softball, archery, basketball, table tennis, speedball, kanjam, angleball, tchoukball, pickleball, floor hockey, dance, and mat ball.

9210 Health **Grade: 10** **.5 Credit**

Health is a required one-semester course for sophomores. The course is designed to survey a wide range of health-related topics to provide a basis for future decision-making. This is a skills-based class for students to learn and practice health enhancing behaviors.

Physical Education and Health

A minimum of 1.5 HP and .5 HE are required.

9106 Personal Wellness-S1 **Grades: 10-12** **.5 Credit**

9107 Personal Wellness-S2 **Grades: 10-12** **.5 Credit**

The primary focus of this class is to guide and motivate students to engage in regular physical fitness in an encouraging and inclusive environment. Through participation in a variety of enjoyable activities, students will understand the benefits of physical activity and how exercise can improve their emotional, mental, physical and social health. Personal Wellness will focus on life-long fitness enhancing activities. *Personal Wellness is an elective open to all students in grades 10-12.*

9300 Unified Physical Education **Grades: 11-12** **1.0 Credit**

UNIFIED Physical Education -Not your typical PE course! Unified Physical Education will engage you in physical activity and sport alongside peers with and without disabilities, helping to foster important social relationships. This is a unique opportunity for students of varying ability levels and backgrounds to come together on equal terms through ongoing fitness, sport, leadership and wellness activities. Unified PE focuses on the physical, intellectual and social growth of all participants. Although not a requirement, it is hopeful that students in Unified PE might choose to participate as athletes and unified partners in Special Olympics Unified Sports. (CHS is designated as a Special Olympics Unified Champion School). *Signature of UNIFIED PE teacher is required on registration form.*

9346 Advanced Weight Training-S1 **Grades: 10-12** **.5 Credit**

9347 Advanced Weight Training--S2 **Grades: 10-12** **.5 Credit**

A high-intensity, hands-on training class for students who want to push themselves physically and mentally. In this advanced course, you'll build strength, power, confidence, and discipline while learning how to train. We'll cover powerlifting, bodybuilding, functional fitness, circuit work, mobility, speed development, and goal setting.

9402 Lifetime Sports-S1 **Grades: 11-12** **.5 Credit**

9403 Lifetime Sports-S2 **Grades: 11-12** **.5 Credit**

Offered daily and on a semester basis to juniors and seniors, this program emphasizes advanced lifetime sports activities. In-building activities will include games that can be played for a lifetime. Classroom-based learning is also part of the curriculum which can include current health/fitness related topics, research-based activities, presentations, and quizzes. This course involves a variety of activities that occur within the community such as: archery, rock climbing, bowling, disc golf, golf, ice-fishing, ice-skating, Hiking, Missouri River float, skiing, snowshoeing, swimming, self-defense, trap shooting, winter survival, yoga, and more. **The fee per semester is \$100. Sports emphasizes the highest importance and expectations of being respectful, being responsible, and being a graduate. Due to the nature of this course, liability concerns or misbehavior will not be tolerated.**

Counseling Department

Counselor	Email	Phone	Last Names
Mr. Jeramie Robinson	jrobinson@helenaschools.org	324-2493	A-D
Mrs. Dana Meldrum	dmeldrum@helenaschools.org	324-2491	E-K
Mrs. Bethany Boggs	bboggs@helenaschools.org	324-2492	L-Ri
Mrs. Corissa Decker	cdecker@helenaschools.org	324-2490	Ro-Z

CHS School Counselors are available to assist students with course selections, schedule changes, transcripts, scholarships, awards, and college admissions requirements. Counselors will present registration information to all CHS students during the registration process. Please feel free to call or e-mail your student's counselor with questions or concerns.

CHS College & Career Center

Career Center Coordinator: Ms. Aspen Hernden 324-2483

Website: <https://chs.helenaschools.org/about/counseling-career-center/>

The Career Center is open daily, 7:30 am-3:30 pm

The Career Center offers a resource library with information about careers, colleges, vocational education, military services, apprenticeship programs, ACT and SAT applications and preparation materials, financial aid information, **scholarship listings and resources**, job opportunities and more. The Career Center has many resources available on the CHS website.

The Career Center Coordinator provides guidance in career and college planning and exploration, arranges college and military visits, coordinates lunch workshops, manages resource materials, and advises students, parents, and faculty.

Montana University System (MUS)

FOUR-YEAR CAMPUSES

A traditional student is defined as one who enters college within three years of high school graduation or within three years from the date when they would have graduated college.

Admissions Checklist for current High School Students

In order to receive full admission to a four-year university in the MUS, entering traditional students are required to meet the following standards:

Achieve one of the following:

1. Earn at least a 2.5 high school GPA; or
2. Rank in the top half of the school's graduating class; or
3. Earn a minimum composite score of 22 for the ACT or 1120 for the SAT (exception: MSU-Northern requires ACT score of 20, SAT score of 1050).

AND

Complete the Rigorous Core College Preparatory Program: English (4 years), mathematics (4 years), lab science (3 years), social studies (3 years), college prep electives (3 years), which include world language, computer science, visual and performing arts, and career/technical education units that meet the office of public instruction guidelines. The Rigorous Core is an advanced alternative to the Minimum Core for math proficiency standards.

High school students who successfully complete the Rigorous Core are eligible for the MUS Honor Scholarship.

OR

Demonstrate Mathematics Proficiency via one of the following methods:

- Earn a minimum ACT math score of 22
- Earn a minimum SAT score of 520
- Earn a minimum score of 3 or above on the AP calculus AB or BC subject examination or a score of 4 on the IB calculus test
- Earn a minimum of 50 on the CLEP subject examinations in selected topics [college algebra, college algebra-trigonometry, pre-calculus, calculus, or trigonometry]
- Complete the Rigorous Core College Preparatory Program
-

Demonstrate Writing Proficiency via one of the following methods:

- Earn a minimum ACT ELA score of 18
- Earn a minimum SAT score of 440
- Earn a minimum score of 7 on the ACT/SAT writing essays
- Earn a minimum score of 3 on the AP English language or literature exam
- Earn a minimum score of 4 on the IB language A1 exam
- Earn a minimum score of 50 on the CLEP subject exam in composition

Provisional Admission

Provisional admission is granted to students scoring 18-21 on the ACT or 440-510 on the SAT mathematics tests, or 5-6 on the ACT/SAT writing essays.

Students who do not meet the writing and math proficiency standards are admitted to four-year universities on a provisional basis. Students who are provisionally admitted can gain full admittance by demonstrating one of the following:

- Earn a "C" or better in developmental math and writing courses preparing students for college level course work (must be completed within the first 3 semesters)
- Earn the required score on one or more of the math or writing assessment tests required for admissions
- Complete an associate of arts (A.A.) or associate of science (A.S.) degree
- Submit a letter to the admissions office documenting a disability that prevented the student from adequately demonstrating proficiency in a test setting if no accommodation was provided at the time of the test

Information from www.mus.edu.

Montana University System (MUS)

TWO -YEAR CAMPUSES & PROGRAMS

All Students:

Two-year campuses in the MUS abide by a non-competitive open enrollment policy that does not require applicants meet the Regents' four-year admissions criteria. The only requirement is that applicants must have obtained a high school degree or successfully completed an official high school equivalence completion assessment designated by the Board of Public Education (formerly the GED and currently the HiSET*).

Students who have not yet demonstrated the ability to meet the mathematics or writing proficiency standards may be admitted without condition to a two-year college; however, certain programs within the college, such as Nursing, may have higher admission standards.

Two-year Degree Programs:

Students whose mathematics scores are below 18 on the ACT or 440 on the SAT may be fully admitted to a two-year degree program of the MUS, but may not be admitted to a four-year degree program of the MUS.

Information from www.mus.edu.

Montana High School Association



The purpose of the Montana High School Association is to ensure that interscholastic activities in Montana are administered fairly. Policies pertaining to scholastic standing, transfer, awards and other regulations can be found at: www.mhsa.org.

NCAA & NAIA Clearinghouses



If you wish to participate in NCAA Division I or II athletics, you need to be certified by the NCAA Eligibility Center. You will need to qualify academically and you will also need to be cleared as an amateur student-athlete. Please access the NCAA website for more information: www.eligibilitycenter.org



If you wish to participate in an NAIA member institution, you will need to be certified by the NAIA Eligibility Center to qualify academically and be cleared as an eligible student-athlete for competition. Access the NAIA website for more information: www.PlayNAIA.org

Planning Your Graduation

Graduation Requirements	Grade 9	Grade 10	Grade 11	Grade 12
ENG: 4.0 Credits				
SST, USH & AMG: 3.0 Credits				
MTH: 3.0 Credits				
SCI: 2.0 Credits				
FA: 1.0 Credits				
VOC: 1.0 Credit				
HP: 1.5 Credits HE: 0.5 Credits				
ELECTIVES: 7.0 Credits <i>These include Foreign Language courses, department electives, and any other courses you elect to take beyond the minimum requirement.</i>				
*CREDIT REQUIREMENT: 23.0				

***This is the credit minimum for earning your diploma at CHS. Please pay extra attention to specific requirements for BEAR, HEF, MUS Rigorous Core, Etc.**