

Capital High School



2019-2020

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	7-9
B.E.A.R. Award	10
HEF Distinguished Scholars Award	10
National Honor Society	10
English (1000)	11-15
Social Studies (2000)	16-19
Mathematics (3000)	20-24
Science (4000)	25-29
World Language (5000)	30-33
Fine Arts (6000)	34-41
Art, Photography, Video, Music, and Drama	
Career and Technical Education (7000)	42-53
Industrial Technology, Business Education, Marketing Education, Family & Consumer Sciences, and Biomedical Sciences	
Specialized Courses	54
Human Performance and Health Enhancement (9000)	55-56
<u>STUDENT RESOURCES</u>	
Counseling Department	57
College and Career Center	57
Montana University System	58-59
Montana High School Association	59
NCAA & NAIA Clearinghouses	59
Planning Your Graduation Worksheet	60

Purpose of Registration Guide

To Our Capital High School Students, Parents and Guardians:

This booklet is designed to help you and your parents select proper courses for the coming year. Please read it carefully. Talk over your concerns with your parents, your counselors, and your teachers. It is important that you select courses in the fields of your aptitudes, your interests and your capabilities. The courses that you select now will, in large measure, determine what you 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 2019-2020 will be over 1350 students in grades 9, 10, 11, and 12. It is necessary to have a firm registration in order to secure the necessary teachers, order supplies, create a class 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 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 Cultures	1.0
USH	US History	1.0
AMG	American Government	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

**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 seven (7) periods per day, with 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. Freshman & Sophomores may request to start zero period (7:25 a.m.) or 1st period (8:20 a.m.).
- **Juniors & Seniors** must register for six (6) credit-bearing classes and may elect to take a study hall for a 7th class. Juniors & 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 their 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 History, 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 prerequisite/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 only in response to a need by failure to receive a passing grade in a course, graduation requirements, and incomplete schedules or as a result 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.
- 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>		Application Required	
1101 English 1 Honors (commitment form)		8260 Peer Mentoring	
1201 English 2 Honors (commitment form)		8263 Peer Mentoring Afterschool Program	
3100 Algebra I		4421 Science Seminar	
3101 Mathematics 1 Honors		9351 Health Careers Exploration	
3200 Geometry		1460 Yearbook	
3201 Mathematics 2 Honors		1462 Yearbook 2	
3300 Algebra II		Audition and Signature Required	
3356 Technical Math		6420 Chamber Orchestra	
3400 Pre-Calculus		6450 Wire Choir	
3301 Pre-Calculus Honors		6560 Jubilettes	
3401 Calculus AP		6570 Saturday’s Children	
3406 Calculus, Linear Algebra, Differential Equ.		6571 Jazz Choir	
3440 College Algebra		6371 Jazz Ensemble	
3441 Statistics		6710 Theater 2	
3442 Statistics AP		6720 Theater 3	
3302 Contemporary Math			
4101 Earth Science Honors		Financial Assistance for Course Fees: <i>Financial assistance for some fees is available to families with documentation of financial need, as determined by eligibility for free/reduced meals.</i> <i>If assistance is needed, please visit with Mrs. Dioso, CHS Bookkeeper, in Main Office.</i>	
4201 Biology 1 Honors			
4306 Biology AP (Grade 10 ONLY without Bio 1 Pre-Req)			
9106 Personal Wellness-S1 (For HP Credit ONLY)			
9107 Personal Wellness-S2 (For HP Credit ONLY)			
9300 Unified PE			
9325 F.A.S.T.-S1			
9326 F.A.S.T.-S2			
Courses with Fees			
Course Name	Amount	Course Name	Amount
4110 Paleontology	\$25/Year	7190 Cabinetmaking 2	\$25/Year
4421 Science Seminar	\$175/Year	7210 Auto 1	\$45/Year
6120 Art 2	\$5/Year	7220 Auto 2	\$45/Year
6130 Art 3	\$10/Year	7203 Auto 3	\$45/Year
6140 Art 4	\$15/Year	7230 Welding 1	\$35/Year
6150 Design Application 1	\$20/Sem.	7240 Welding 2	\$125/Year
6160 Design Application 2	\$20/Sem.	7250 Welding 3	Own Materials
6170 Design Application 3	\$20/Sem.	7255 Machining 3	Own Materials
6210 Ceramics 1	\$30/Year	7535 Culinary Arts 1-2	\$40/Year
6220 Ceramics 2	\$30/Year	7540 Culinary Arts 3	\$40/Year
6250 Photo 1	\$10/ Sem.	7550 Design 1 Fashion	\$20/Year
6260 Photo 2	\$10/ Sem.	7552 Design 2 Fashion	\$15/Year
6271 Science & Art of Photography	\$20/ Sem.	7554 Design 3 Fashion	\$15/Year
7100 Industrial Tech	\$35/Year	7555 Design 4 Fashion	\$15/Year
7170 Carpentry 1	\$25/year	9402 Lifetime Sports	\$100/ Sem.
Dual Credit courses have a charge per credit from Helena College or Carroll College only for college credit		AP Courses have a \$95 fee for the optional exam for college credit	

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 & Advanced Placement (AP) classes in a number of subject areas. The Honors courses are offered for the student who has a strong aptitude in that particular 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 a student take honors course beginning their freshmen year in order to be eligible for upper level honors and AP courses. However, a student may elect to try an Honors or AP course in the sophomore or beyond, even if they have not taken a course prior to that year. A teacher recommendation is required when this occurs.

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 regardless if they have 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 their academic endeavor. It is not recommended by Capital High School that a student take more than three Honors or AP classes in a given 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 meets with the counselor for a discussion.

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

Biology 1 Honors	English 2 Honors	Math 2 Honors
Earth Science Honors	Math 1 Honors	Pre-Calculus Honors
English 1 Honors		

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:

American Government AP	Chemistry AP	Environmental Science AP
American History AP	Computer Science AP	European History AP
Art History AP (HHS)	Economics AP	Human Geography AP
Art Studio AP (HHS)	English 3 AP (Lang & Comp)	Physics AP
Biology AP	English 4 AP (Lit & Comp)	Spanish 5 AP
Calculus AP		Statistics AP

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's the student's responsibility to meet all the colleges deadlines, test score requirements, and pay fees if required.

CHS/Helena College Dual Credit Offerings

Helena College Course		Credits	CRN	CHS Course
WRIT 101	College Writing	3	1457	WRIT 101 College Writing
LIT 110	Intro to Lit	3	1458	English LIT 110
WRIT 111	Technical Writing	3	1459	Intro to Technical Writing
COMM 111	Intro to Public Speaking	3	1422	Speech
M105	Contemporary Math	3	3302	Contemporary Math
M111	Technical Math	3	3356	Technical Math
M121	College Algebra	3	3440	College Algebra
M151	Pre- Calculus	4	3400	Pre-Calculus
M151	Pre- Calculus	4	3301	Pre-Calculus Honors
M171	Calculus I	4	3402	Calculus AP
STAT 216	Intro to Statistics	3	3441	Statistics
ACTG 101	Accounting Procedures	3	7370	Accounting 1
CAPP 154	MS Word	3	7360	MS Word/Access
CAPP 156	MS Excel	3	7361	MS Excel/PowerPoint
MCH 234	CNC Milling Operations 1	4	7250	Machining 3
WLDG 112	Cutting Processes	1	7250	Welding 3
AUTO 104	Automotive Mechanics	3	7203	Auto 3

CHS/Carroll College Dual Credit Offerings

Carroll College Course		Credits	CRN	CHS Course
M131	College Calculus	4	3406	Calculus, Linear Algebra, Differential Equations
M232	Linear Algebra	4	3406	Calculus, Linear Algebra, Differential Equations
CS110	Computer Science	3	3460	Computer Science

**** 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.**



Dual Credit Opportunities

MONTANA UNIVERSITY SYSTEM- HELENA COLLEGE COURSES

"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, on-line, or in their high school. Students can explore a wide range of content including academic core and workforce courses. For more information [Click Here](#)



- 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 \$51/credit).
- Students that 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.

One-Two-Free Participating colleges are Missoula College, Helena College, Highlands College, UM Western, Gallatin College MSU, City College MSUB, Great Falls College MSU, and MSU Northern.

CARROLL COLLEGE

Early Access

The Carroll Early Access program provides an authentic, on-campus college experience for local Helena students tuition-free. High school juniors and seniors may take up to two classes per semester from the [approved course list](#). Most courses are three credits but those that offer a lab component will be four credits. Classes will be taught by Carroll's outstanding professors and you will learn alongside current Carroll students on Carroll's campus. Students who complete the courses will receive Carroll College credits, which can be used at Carroll to pursue a future degree or transferred to another institution. While tuition is free, there is a nominal \$60 student fee per semester and some classes have an additional course fee (such as labs) to cover supplies. In addition to these fees, students are responsible for the purchase of their own books and supplies. Families are responsible for the student's transportation to and from campus.

Dual Credit

Contact your high school counselor or principal if you are interested in Carroll's Dual Enrollment program. Dual enrollment is a separate program from the Carroll Early Access program. It is a course taught in the student's high school by a high school teacher with college credit given for the class through an agreement with the college. Carroll has dual enrollment programs in mathematics and computer science at Capital, Helena, St. Andrew and Loyola (Missoula) high schools. Carroll College is now matching the Montana University System rates for dual enrollment courses at \$50 per credit.

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/>

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** and meet course qualifications (see chart below).

Helena College Dual Credit School Application must be completed before the course can be requested in PowerSchool.

Students who drop a dual credit course once the semester has started are required to drop both at CHS and the corresponding college, failure to drop at the college will cause the student responsible to pay the course fees and the failure will be reflected on the Helena College Transcript.

ACT/SAT/Accuplacer Placement Chart for Math and English Dual Credit Classes

Course	PLACEMENT TESTS			
MATH	ACT	SAT	Accuplacer Quantitative Reasoning	Accuplacer Advanced Algebra
M111T- Technical Math	16 & Below		200-239	
M105 Contemporary Math	20			220-249
M121 College Algebra STAT216 Statistics	22	530		250-262
M151 Pre-Calculus	25	570		263-270
M171 Calculus	27	610		271-300
ENGLISH	ACT (Before 2016)	ACT (2016 and Beyond)	SAT	Accuplacer ELA
WRIT 101 College Writing AND LIT 110 Intro to Lit	7 Writing Sub score 18 English/Writing	18 ELA	7 Essay 440 Writing	250-300

Eligibility for Dual Credit offerings is based on test scores. If a student does not hit the MUS System cut scores on the ACT, they will then need to take the Accuplacer test at Helena College for \$15 to be able to get the college credit.

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			

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.) award is acknowledged for graduating seniors who have achieved the following:

1. Have taken 10 or more Honors, Advanced Placement, and/or Accelerated credits receiving a minimum of a B letter grade (after 8th semester)
2. At least 7 of the 10 credits must be in core departments (English, Math, Social Studies, Science, or Foreign Language).
3. Have taken all required classes necessary for graduation.
4. Will graduate with a minimum of 26 credits.
5. At the time of graduation have a minimum cumulative G.P.A. of 3.5
6. Have no outstanding past or current disciplinary problems determined at the discretion of the Helena School Board through the day of graduation.
7. Be 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	Jubilettes
English 2 Honors	Biology 1 Honors	Saturday's Children
English 3 AP Language & Composition	Biology AP	Jazz Choir
English 4 AP Literature & Composition	Chemistry AP	Music Theory Careers Prep
English 4 College Writing & Literature	Physics	Theater 3
	Physics AP	Career & Technical Education
	Science Seminar	Carpentry 2-House Building
Social Studies, History, & Gov't	Environmental Science AP	Auto Technology 2
World Cultures Honors	World Languages	Advanced Auto Skills & Tech 3
American History AP	French 3 Honors	Welding 3
American Government AP	French 4	Machining 3
European History AP	Spanish 4	Accounting 2
Economics AP	Spanish 5 AP	Accounting 3
Human Geography AP	German 4	MS Office Word/Excel
Mathematics	Fine Arts	MS Office Access/PowerPoint
Math 1 Honors	Art 4	Marketing Management
Math 2 Honors	Design Application 3	Fashion Design 4
Pre-Calculus Honors	Art History AP	Computer Science AP
Calculus, Linear Algebra, Diff. Equations	Symphonic Winds	
Calculus AP	Jazz Ensemble	
Statistics AP	Chamber Orchestra	Accredited College Course(S1 & S2)

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/

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 a student's high school transcript.

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 4A-Multicultural Literature English 4B-Modern Literature English 4C-Sci Fi/Fantasy Literature English 4-Technical Writing (DC) English 4-AP Literature & Composition College Writing & College Lit. (DC)
Elective Courses	Journalism & Newspaper Production Peer Mentoring-Afterschool	Journalism and Newspaper Production Creative Writing Peer Mentoring-Afterschool	Journalism and Newspaper Production Creative Writing Peer Mentoring Class Speech (DC)	Journalism and Newspaper Production Creative Writing Peer Mentoring Class Speech (DC)
ENGLISH INTERVENTIONS: <i>Placement in the following intervention courses is based on academic need, as determined by screening and/or teacher recommendation.</i>				
	Reading Lab English 1-Applied	Reading Lab English 2-Applied	Reading Lab English 3-Applied	Reading Lab English 4-Applied

1100 English 1

Grade: 9

1.0 Credit

English at the freshman level explores the genres of mythology (including *The Odyssey*), non-fiction, novel, drama (i.e. *Romeo and Juliet*) and short story. The emphasis in composition is on argumentative analysis and process writing. Grammar, spelling, vocabulary development, library orientation, speaking, listening, study skills and research 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 I 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 uses SpringBoard curricular resources to begin preparing 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.*

English

A minimum of 4.0 ENG credits are required.

SOPHOMORE YEAR ENGLISH 2 OPTIONS

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 there is continuation of other areas of literature, speaking, listening, grammar, vocabulary development, and research. The emphasis in composition is on argumentative, informational, and narrative writing.

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 II course prepares sophomores to succeed in Advanced Placement English courses their junior and senior years by using SpringBoard curricular resources. Honors English II 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 in Honors English II also 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.**

JUNIOR YEAR ENGLISH 3 OPTIONS

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.

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 that is very rigorous and demanding. 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 \$95) 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.**

English

A minimum of 4.0 ENG credits are required.

SENIOR YEAR ENGLISH 4 CORE OPTIONS

All senior English classes will be writing intensive. Students will focus on refining and expanding effective writing skills through critical and analytical writing, timed writing, and research. Students will also read one Shakespearean play.

Seniors, unless taking AP or College Writing/College Literature, will complete two semesters of one of the following options:

1412 English 4A (Multicultural Literature)	Grade: 12	1.0 Credit
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Want to travel the world? Now is your chance! This class delves into cultures from around the world, from Buddhist monks to Holocaust survivors. It also explores varying time periods, from Elizabethan England to modern-day America. Students will explore contemporary issues that face these groups and efforts to sustain cultural diversity by reading novels, short stories, and films. Bring your passport.

1413 English 4B (Modern Literature)	Grade: 12	1.0 Credit
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Not a big reader? You will be. This class focuses on “high interest” modern reads to maintain student enjoyment and focus. A major goal of the Modern Literature class is to create life-long readers. Some of the selections will include non-fiction works like *Unbroken*, *The Big Burn*, and Steven Rinella’s *American Buffalo*. Modern Fiction will include *Bear Town*, *A Long Way Gone*, and John Grisham’s *A Time to Kill*. Several other works will be included as time permits. Get ready to fall in love with reading.

1414 English 4C (Science Fiction/Fantasy Literature)	Grade: 12	1.0 Credit
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The universe awaits you! This course focuses on famous works and films in the development of science fiction and fantasy in both film and literature. The course will showcase novels, short stories, and milestone sci-fi/fantasy films. Slap on your spacesuit, tip your witch hat, grab your pixie dust, and let’s head for the stars.

SENIOR YEAR ENGLISH 4 ADVANCED/DUAL CREDIT OPTIONS

1406 English 4-AP Literature & Composition	Grade: 12	1.0 Credit
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**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. Students must have demonstrated expertise in previous English courses. 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 \$95). 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.*

1459 English 4-Technical Writing	Grade: 12	1.0 Credit
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DUAL CREDIT Helena College: WRIT111T

**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 the various technical fields and reading high interest fiction and non-fiction like *The Big Burn*, *American Buffalo*, adventure blogs and more.

English

A minimum of 4.0 ENG credits are required.

SENIOR YEAR ENGLISH 4 ADVANCED/DUAL CREDIT OPTIONS-CONTINUED

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. In WRIT 101, students will explore a variety of modes of essays in order to develop their own ideas and enhance their writing styles, including personal narrative, description, exemplification, definition, argument, process, compare/contrast, cause/effect and research.

***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. Emphasis is on articulating strong responses to varied texts including poetry, drama and fiction, as well as literary criticism and theory.

ENGLISH ELECTIVES

1422 Speech/COMM 111 **Grades: 11-12** **.5 Credit**

DUAL CREDIT Helena College: COMM 111X Introduction to Public Speaking

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

Students will have the ability to generate speech topics appropriate for a variety of occasions, demonstrate applications of classical rhetorical principles to contemporary circumstances, adapt material to particular audiences, reason from evidence to conclusions, and organize ideas according to the demands of informative and persuasive public speaking situations. Students will develop critical listening skills and the ability to evaluate messages.

English

A minimum of 4.0 ENG credits are required.

ENGLISH ELECTIVES

1445 Creative Writing

Grades: 10-12

1.0 Credit

This is an introductory course in creative writing. Student grade history in English classes should suggest an above average aptitude for reading and writing. This elective course is designed to acquaint students with the fundamentals of using language to create poetry, essays, personal narratives, journal entries, short stories, and a variety of other creative forms. Art and music will be used to enhance creative writing opportunities. Through assigned reading, students will learn to critically review the content and style of well-known writers. Students will be expected to read their writing aloud and share it in print form when requested. A portfolio will be maintained.

1450 Journalism and Newspaper Production

Grades: 9-12

1.0 Credit

Journalism was Superman's day job, and it can be yours too! If you're interested in uncovering breaking news, capturing stories on camera, expressing yourself in a regular column or blog, designing attention-grabbing front pages and websites, or interviewing local sports and arts superstars, join the Capital High *Paw Print*. *Paw Print* staff members take on every aspect of newspaper production, from the reporting, to the photography, to the selling of advertisements and the layout. Students who sign up for the *Paw Print* will be required to spend time outside of class (including weekends and evenings) chasing stories, snapping photos and pushing deadlines. The class will explore both print and online methods of investigating and publishing the news. Writers wanted: this is your chance to make the headlines!

ENGLISH RELATED COURSES

8260 Peer Mentoring

Grades: 11-12

1.0 Credit

The Peer Mentoring class takes place during period 4 and provides school-based mentoring for individual elementary children at Rossiter and Kessler Elementary Schools. (Note: On Bruin Buddies days, students will travel during lunch time.) On the remaining class days, students will provide peer education and mentoring for middle school and high school youth. Outside class time is required for service and mentoring projects.

Prerequisite(s): Application and selection is required.

8263 Peer Mentoring-Afterschool Program

Grades: 9-12

1 Credit or .5 Credit

After-school option: This Peer Mentoring class is an Independent Study that takes place after the school day in coordination with the School-Age Child Care program (SACC). Students in this course provide academic, social, and emotional support to students two days per week in two-hour increments (four direct service hours per week). Peer Mentors should be interested, fun, supportive, enthusiastic, and dedicated to creating safe learning environments for the students they mentor. Mentors may request to volunteer at a particular SACC program, and efforts will be made to fulfill that request. *Prerequisite(s): Application and selection is required.*

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 (Choose One)	World Cultures Human Geography AP	None	American History American History AP	American Government American Government AP
Elective Courses	Current Issues	Current Issues European History AP Western Civilization Psychology Sociology	Current Issues European History AP Western Civilization Sociology Psychology Advanced Psychology Economics AP Special Topics	Current Issues European History AP Western Civilization Sociology Psychology Advanced Psychology Economics AP Special Topics

FRESHMAN YEAR - WORLD CULTURES OPTIONS

2100 World Cultures (Required) Grade: 9 1.0 Credit

In this course, students will survey the geography, history, social structure, economy, art, religion and national policies of selected world regions including: Russia, China, The Middle East and North Africa, Africa (Sub Sahara), Latin America, Southeast Asia, India, Japan, Oceania, and Western Europe.

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.

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

2300 American History (Required) Grade: 11 1.0 Credit

This course is designed to acquaint the student with the panorama of events that constitute the history of the United States and the political, social, and economic consequences that followed those events. Particular emphasis will be placed on the major themes of American history, such as participatory government, reform movements, states' rights, the role of business and labor, and foreign policy. A chronological approach is used.

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 (approx. cost: \$95) 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 Government (Required) Grade: 12 1.0 Credit

American Government is designed to acquaint students with the structure and operation of the political system of the United States. It provides insight into the nature of politics by exploring the competing interests that seek to influence policy-makers and by examining the social, political, and economic consequences of the policies made. This course also includes career and consumer education relevant for the soon-to-be graduate.

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 test (Exam Fee: Approx. \$95) for college credit and will fulfill the district's American Government curriculum requirement. The course will cover political and economic theory and processes as well as institutions 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, History, & Government

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

SOCIAL STUDIES ELECTIVES

2321	Special Topics in American History-S1	Grades: 11-12	.5 Credit
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2322	Special Topics in American History-S2	Grades: 11-12	.5 Credit
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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.

2410	Western Civilization 1-S1	Grades: 10-12	.5 Credit
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2420	Western Civilization 2-S2	Grades: 10-12	.5 Credit
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The History of Western Civilization 1 & 2 is an elective for students interested in exploring issues of European History. First semester will begin with pre-historic humans and trace the development of European civilizations through the rise of Ancient Greece and Rome, the medieval era and explore the Renaissance and Reformation. In the second semester we will begin with the discovery of the "New World" and discuss the 16th – 21st centuries including the Industrial Revolution, both World Wars, and the Cold War era. A wide variety of teaching methods will be employed including instructor led lectures and discussions, demonstrations, era-related projects, independent exploration, and writing assignments.

2426	European History-AP	Grades: 10-12	1.0 Credit
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**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 (approx. cost: \$95), 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.

2430	Current Issues-S1	Grades: 9-12	.5 Credit
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2432	Current Issues-S2	Grades: 9-12	.5 Credit
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This course is for the student interested in reading about and discussing what is happening in the world today. Magazines and/or newspapers and computer information systems will be used as background information for discussion. Vocabulary quizzes and term papers are among class requirements.

Social Studies, History, & Government

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

SOCIAL STUDIES ELECTIVES-CONTINUED

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.

2506 Economics AP Grades: 11-12 1.0 Credit

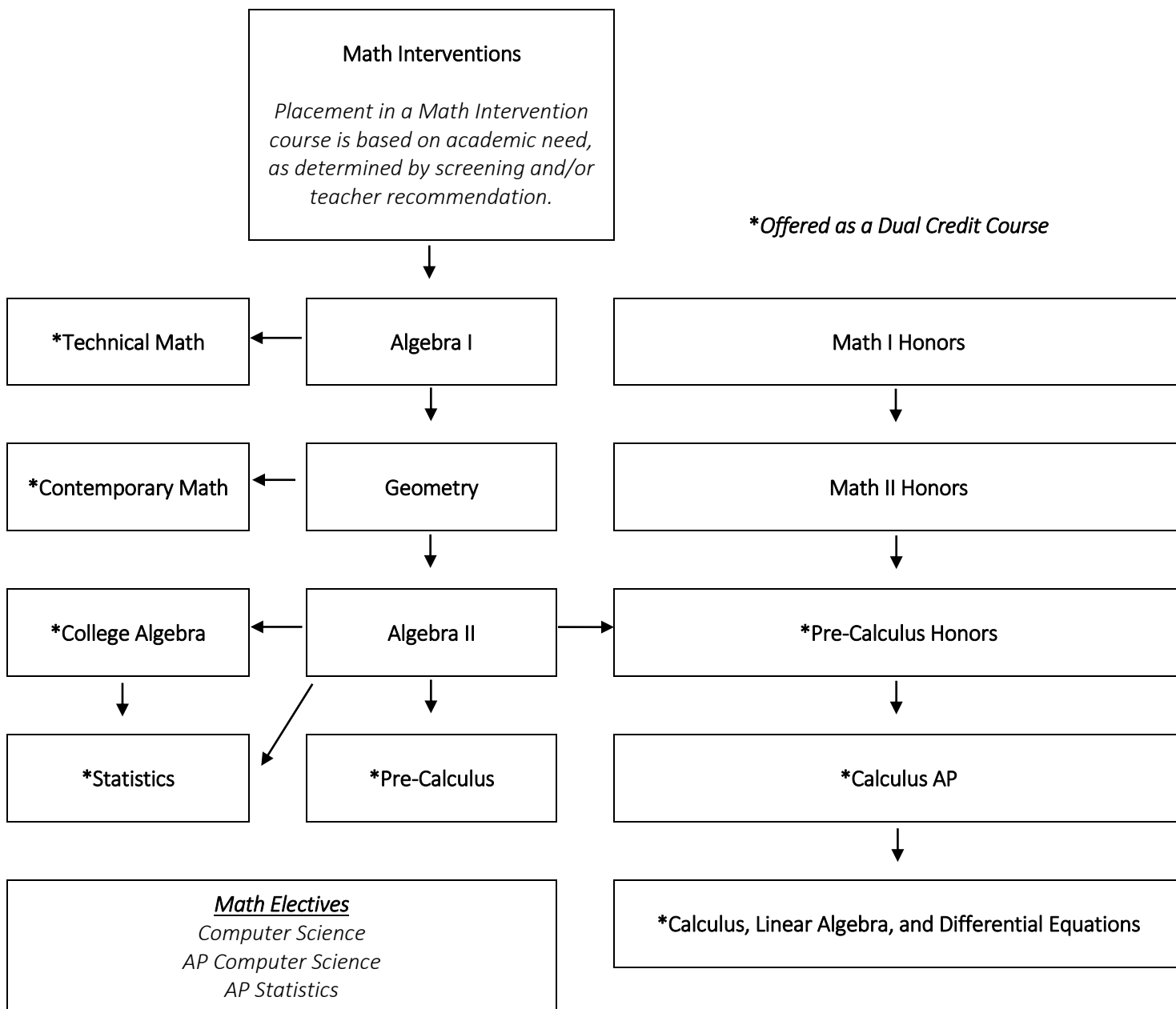
***Special Note:** *Registering for an AP or Honors course is meant to be a YEAR-LONG COMMITMENT. If you wish to drop an AP or Honors course, you will have to wait until one week after the semester begins.*

Advanced Placement Economics is designed for juniors or seniors who are interested in a strenuous in-depth economics course. The course provides students with the analytical skills and factual knowledge to deal critically with modern macro and micro economic theory. Activities include reading economic journals, mathematical graphing and statistics, discussions, debates, and individual as well as group projects. This course requires a solid math background. Students must be able to read graphs, solve and graph equations and evaluate data. Students taking this course are eligible to take the Advanced Placement (AP) Economics Exam (Exam Fee: approx. \$95), 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. **Eligible for VOC credit, with counselor approval.**

Mathematics

A minimum of 3.0 MTH Credits are required.

CHS MATHEMATICS COURSE FLOW CHART



Mathematics

A minimum of 3.0 MTH Credits are required.

3100 Algebra I	Grades: 9-12	1.0 Credit
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This is the first of the four-year sequence for all students. This is the introductory 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
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***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: 10-12	1.0 Credit
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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. **Prerequisite(s):** *Signature of current Math teacher is required on registration form -AND- Algebra I (C or better recommended).*

3201 Mathematics 2-Honors	Grades: 9-10	1.0 Credit
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***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 (A or better recommended).*

3300 Algebra II	Grades: 10-12	1.0 Credit
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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 (C or better recommended).*

3302 MA 105 Contemporary Math	Grades: 12	1.0 Credit
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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*

Mathematics

A minimum of 3.0 MATH Credits are required.

3356 Technical Math

Grades: 10-12

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 is a 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.*

3400 Pre-Calculus

Grades: 11-12

1.0 Credit

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 fourth of the four-year sequence for all students. This is a senior level course that emphasizes a strong development of the ideas of College Algebra and Pre-Calculus. (See description for College Algebra and Pre-Calculus) Students from Honors Mathematics 2 or Algebra II take this class. **Prerequisite(s):** *Signature of current Math teacher is required on registration form -AND- Algebra II (C or better recommended).*

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 of the Four-year honor sequence. This emphasizes a strong development of the ideas of College Algebra and Pre-Calculus (See description for College Algebra and Pre-Calculus). Students from Honors Mathematics 2 or Algebra II take this class. Students who are successful with this class should 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 Calculus 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.*

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.

3406 Calculus, Linear Algebra, and Differential Equations

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 Carroll College: M131 College Calculus –or- M232 Linear Algebra or Calculus B/C 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 sequences, finite differences, finite-difference equations in dynamical systems, limits and continuity, and differentials equations. There is heavy emphasis on applications, mathematical modeling, and problem solving techniques. It is recommended that students take the AP Calculus B/C Test if not taking the course 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- 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-83 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 an 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: 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 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 Pre-Calculus or above, and teacher signature.

Mathematics

A minimum of 3.0 MATH Credits are required.

MATHEMATICS ELECTIVES

3460 Computer Science

Grades: 10-12

1.0 Credit

DUAL CREDIT Carroll College: CS 110 Computer Science

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

Computer Science is for students with a desire to develop programming fundamentals. The java programming language will be used to create both console applications and applets. Computer Science concepts such as algorithms, data structures, Object Oriented Programming techniques, graphics, animation, and video game design will be explored. A student can take up to six semesters of computer science. The first four are structured and built upon the previous semester(s). The final two semesters are used for advanced study through independent programming projects. Upon completion of four semesters, the student has the option of taking the Advanced Placement(AP®) Computer Science A exam.

3463 AP Computer Science Principles

Grades: 10-12

1.0 Credit

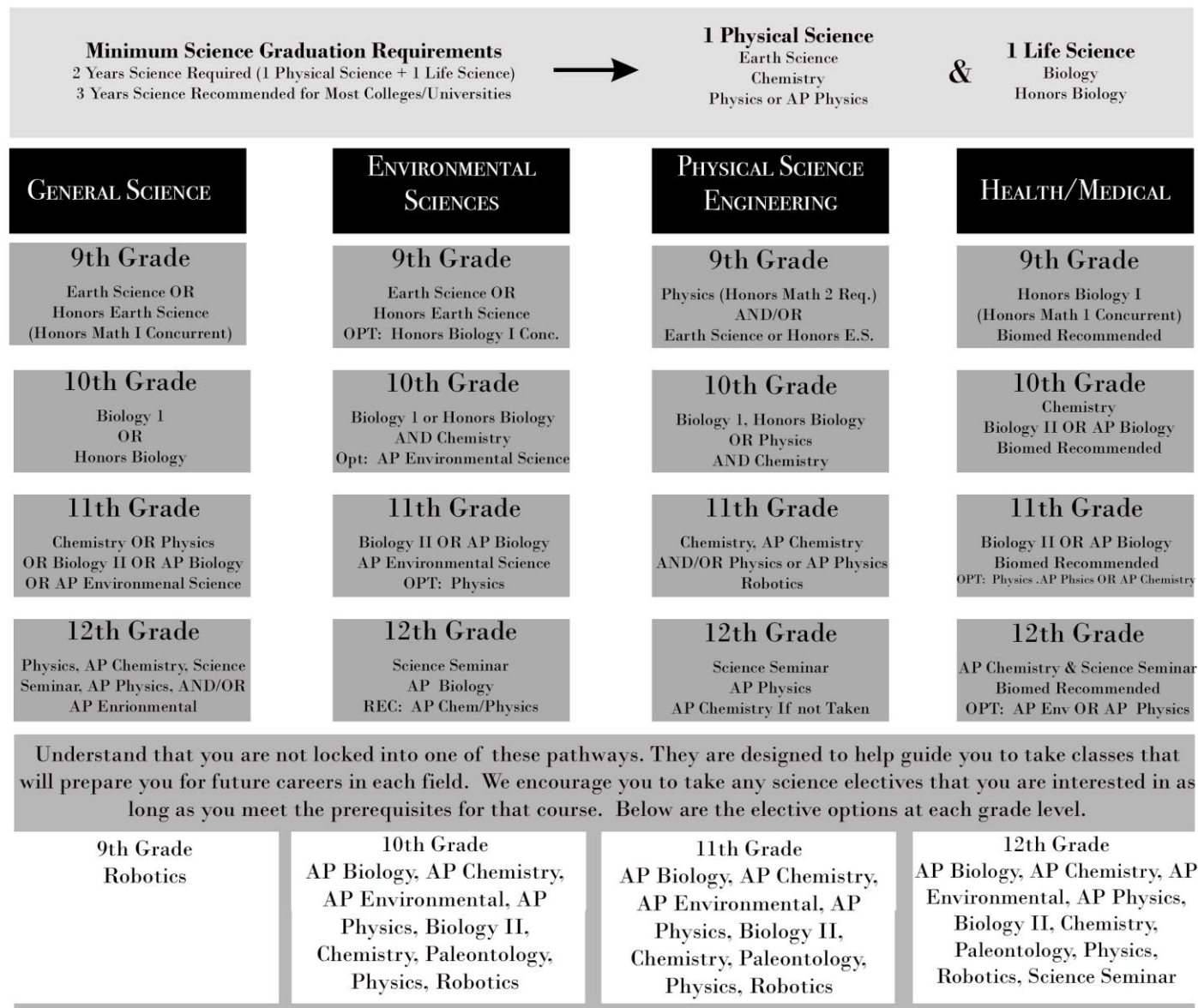
**Special Note: Registering for an AP or Honors course is meant to be a YEAR-LONG COMMITMENT. If you wish to drop an AP or Honors course, you will have to wait until one week after the semester begins.*

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 five core units of study, with a sixth 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*

Sciences

A minimum of 2.0 SCI Credits are required.

SCIENCE PATHWAYS



SCIENCE INTERVENTIONS

Placement in a Science Intervention course is based on academic need, as determined by screening and/or teacher recommendation.

Sciences

A minimum of 2.0 SCI Credits are required.

4100 Earth Science

Grade: 9

1.0 Credit

Earth 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 Science-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.*

Honors Earth 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 on registration form AND concurrent enrollment in Mathematics 1 – Honors required.**

4110 Paleontology

Grades: 10-12

1.0 Credit

Paleontology is an elective science course that will focus on paleontology in Montana. The class will cover the history of paleontology in Montana, review of geology concepts, stratigraphy, paleobotany, Montana dinosaur species and families, Saurischia, Ornithischian, the future of paleontology in Montana, evolutionary biology, and will culminate on learning how to dig and prepare fossils. An optional 2-week long trip could be taken in the summer. During the trip, students will have the opportunity to prospect and dig a dinosaur. A course fee of \$25 is required **Prerequisite(s): Earth Science (B or better recommended).**

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

Grade: 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.*

Honors Biology 1 is a survey course in the Life Sciences designed to challenge the advanced 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 Mathematics 1-Honors required**

Sciences

A minimum of 2.0 SCI Credits are required.

4300 Biology 2

Grades: 10-12

1.0 Credit

Biology II is a second year biology course designed to get students out doing real science! It is offered to any sophomore, junior, or senior student who has passed Biology I with a C or better. This course is designed for students who are interested in the biological and/or medical fields but do not feel ready for the pace and rigor of AP Biology. First semester focuses on field study and laboratory experiences in forestry, water quality, wildlife biology, genetics, microbiology and biotechnology. Second semester focuses on vertebrate and human anatomy and physiology and is ideal for students wanting to pursue a medical or health career. Although this is a year-long course, students will be able to enter in the 2nd semester as long as they have met the prerequisite. First semester there are 3 required field trips. **Prerequisite(s): Biology 1 or Biology 1 Honors (C or better recommended).**

4306 Biology 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.

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 in order to develop advanced inquiry and reasoning skills such as designing experiments, collecting and analyzing data, applying mathematical routines, and connecting concepts in/across domains. **Prerequisite(s): Biology 1 or Biology 1 Honors (B or better recommended) -AND- Chemistry 1/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.**

Sciences

A minimum of 2.0 SCI Credits are required.

4401 AP Physics

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.*

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.**

4420 Chemistry 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.*

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

Grade: 12

1.0 Credit

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, discussion within the class and interaction with community resource personnel. A course fee of \$170 is required to cover transportation, food and guides for field trips to Yellowstone and Glacier Parks.

Fees: \$175. Prerequisite(s): Three (3) Lab Sciences -AND- Concurrent Enrollment in year-long Lab Science or Science-related course -AND- application and selection is required.

4501 AP Environmental Science

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.*

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)/Concurrent Enrollment.**

Sciences

A minimum of 2.0 SCI Credits are required.

SCIENCE RELATED COURSES

4600 Robotics

Grades: 9-12

1.0 Credit

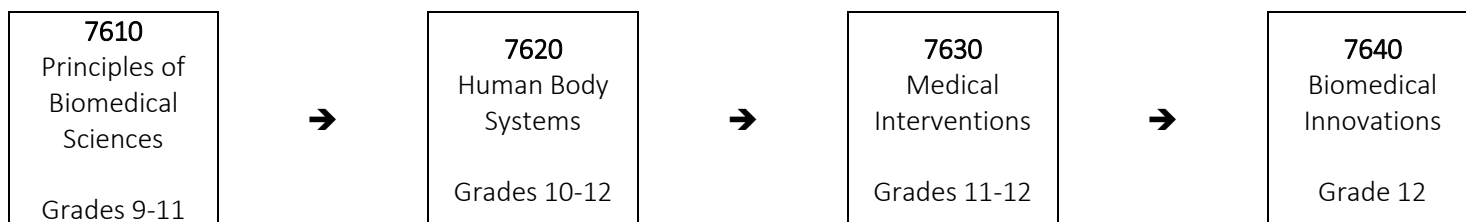
Introduction to Robotics will offer students the opportunity to design, build and program a variety of robots using state of the art materials and programming languages, as they apply the fundamentals of science, math, and technology. The course will introduce the engineering process as students work 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.**



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.*

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), while French is a four-year sequence. Currently, first year Spanish is offered in 8th grade. Latin and German are 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	Latin 2	Latin 3		
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

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

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

Grades: 11-12

1.0 Credit

Latin 3 requires a strong foundation in Latin 2. Students in Latin 2 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 or French 3-Honors.*

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.

ART OPTIONS

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 build an understanding of how to affectively use the Elements and Principles of Design in their works of art. Students will explore drawing, graphic design, computer art, painting, printmaking, sculpture and mixed media. A sketchbook will be kept throughout the year. Students will be assigned a weekly sketchbook assignment designed to help expand their art skills and overall confidence in their artwork. **Materials Required: Art Supply List. Students will be asked to purchase some materials and have the option to purchase directly from the teacher.**

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 increase their understanding of how to affectively use the Elements and Principles of Design in their works of art. Students will study drawing, graphic design, computer art, painting, printmaking, sculpture and mixed media. A sketchbook will be kept throughout the year. Students will be assigned a weekly sketchbook assignment designed to help expand their art skills and overall confidence in their artwork. **Materials Required: Art Supply List. Students will be asked to purchase some materials and have the option to purchase directly from the teacher. Fees: \$5.00. Prerequisite(s): Art 1**

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 Curating & Exhibition of student and community art. 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 explore subject matter, media, art history, art methods and techniques at the advanced level. Students will work with the instructor as well as the Holter Museum to learn about curating and the inner workings of several types of exhibitions. A sketchbook will be kept throughout the year. Advanced students will be responsible for using their sketchbooks to document ideas and plan out projects; a grade will be given for the sketchbooks. **Materials Required: Art Supply List. Students will be asked to purchase some materials and have the option to purchase directly from the teacher. Fees: \$10. Prerequisite(s): Art 1 & 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. Students will work with the instructor as well as the Holter Museum to learn about curating and the inner workings of several types of exhibitions. A sketchbook will be kept throughout the year. Advanced students will be responsible for using their sketchbooks to document ideas and plan out projects; a grade will be given for the sketchbooks. **Materials Required: Art Supply List. Students will be asked to purchase some materials and have the option to purchase directly from the teacher. Fees: \$15. Prerequisite(s): Art 1, 2 & 3**

Fine Arts

A minimum of 1.0 FA credit is required.

ART OPTIONS-CONTINUED

6150 Design Application 1

Grades: 9-12

1.0 Credit

Welcome to Design Applications Academy I! Stained glass is considered one of the most beautiful art forms of all time! Come deepen your art experience and knowledge with glass arts. Students will explore and create fun and challenging projects that are both beautiful and utilitarian. The non-traditional art forms studied will help art students think outside the box and develop their creativity to a new level while learning the elements and principles of design. Students will participate in project-based learning that is experiential in nature and has real-world applications transforming the way they think about art, science and future opportunities. **Materials Required: Students will be asked to bring some supplies. Fees: \$20/semester.**

6160 Design Application 2

Grades: 10-12

1.0 Credit

You are invited to continue your art experience in Design Applications Academy II! Glass Etching, Glass Concrete Work, Stained Glass Lamp/Windows/Benches, and other amazing projects. Push your artistic envelope with this hands-on course in the non-traditional art forms. Students work in a studio atmosphere and explore mediums with more personal options while applying the elements and principles of design. This second level course allows participants to build on the art skills learned in the first level and create bigger projects. Students will participate in project-based learning that is experiential in nature and has real-world applications transforming the way they think about art, science and future opportunities. **Materials Required: Students will be asked to bring some supplies. Fees: \$20/semester. Prerequisite(s): Design Application 1.**

6170 Design Application 3

Grades 11-12

1.0 Credit

Don't miss out on making projects of your choice in Design Applications Academy III! Individualized projects and a studio atmosphere in this class provide an opportunity to create a wide variety of art projects. Come enjoy the independent study and make projects that are personalized to your artistic interests. Add to and professionalize your art portfolio or create works that fit a recreational artistic outlet in this third-year course. Students will kindle a curiosity about how unique approaches to art works, how objects fit together, and how the designers, architects, and inventors who build the products, spaces and technology in their lives have found solutions to a variety of design problems. **This course may be repeated for credit for a fourth year. Materials Required: Students will be asked to bring some supplies. Fees: \$20/semester. Prerequisite(s): Design Application 2.**

Fine Arts

A minimum of 1.0 FA credit is required.

ART OPTIONS-CONTINUED

6141 Art Studio AP (Offered at HHS) **Grades: 10-12** **1.0 Credit**

Art Studio AP is a college level course for students who are seriously interested in the practical experience of art. Students work with diverse media, styles and subjects throughout art history to compile portfolios based on the exploration of a range of ideas and approaches to art making. Additionally, portfolios must demonstrate sustained multi-perspective investigations of content, as well as conceptual and technical development over time. Students who choose to submit a portfolio to the College Board and earn a qualifying score are typically eligible to receive college credit and/ or placement into advanced courses in college. Evaluation will be based on sketch journals, projects, portfolios, participation and critiques. **Prerequisite(s): Art 1**

6191 Art History-AP (Offered at HHS) **Grades: 10-12** **1.0 Credit**

The study of art history invites students to discover the diversity in and connections among forms of artistic expression throughout history and from around the globe. Students learn about how people have responded to and communicated their experiences through art making by exploring art in its historic and cultural contexts. The AP® Art History course welcomes students into the global art world as active participants, engaging with its forms and content as they research, discuss, read, and write about art, artists, art making, and responses to and interpretations of art.

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.**

6245 Sculpture **Grade: 9-12** **1.0 Credit**

This "Hands On" art class offers a variety of additive and subtractive concepts exploring the principles and elements of design in the 3-D media. The focus of each project is to expand on individual creativity and understanding within the class guidelines. The class includes lectures, demonstrations, production and finishing processes, and guest artists. Evaluations will be based on production and understanding of techniques. **Materials Required: Students will need to purchase some materials. Art 1 or Design Application 1 is recommended, but not required.**

Fine Arts

A minimum of 1.0 FA credit is required.

PHOTOGRAPHY OPTIONS

6250 Photography 1

Grades: 10-12

1.0 Credit

In Photography 1 (Beginning Photography), students will be introduced to traditional black & white photography and darkroom techniques then progress to a digital based imaging, digital capture and Photo Shop processing of images. This is a yearlong course which provides 1 credit toward the Visual/Performing Arts requirements for the high school diploma. Students will gain knowledge of the history and mechanics of photography. Students will learn how to use both film and digital cameras. Creativity, technique, craftsmanship and problem solving are emphasized. The school has a limited number of cameras for check out. Students are encouraged to use their own cameras. **Fees: \$10/semester.**

6260 Photography 2

Grades: 11-12

1.0 Credit

Photography 2 (Advanced Photography) is a continuation of Photography 1. Students will concentrate on special techniques using the camera and traditional and digital darkroom. In the advanced section students will work in a studio atmosphere and explore the world of photography on a more personal interest-based level. Students are required to write a project proposal for each semester. Students also aide the instructor in assisting Photo Beginning Students. This is a yearlong course which provides 1 credit toward the Visual/Performing Arts requirements for the high school diploma. ***This class may be repeated for a third year of photography for credit. Fees: \$10/semester. Prerequisite(s): Photo 1.***

6271 The Science and Art of Photography

Grades: 9-12

1.0 Credit

This class will function as part studio/part seminar and will introduce students to the science and art of photography. Students will learn about different camera techniques and formats, darkroom and digital printing, and alternative photographic practices. In this class we will learn a variety of image modus operandi and discuss how the medium has and will continue to change. Students will use both analog & digital SLR cameras, vintage and modern equipment, and must be open and willing to take aesthetic and conceptual risks. Emphasis will be placed on defining a personal style and vision. Photography is both a physics and chemistry playground. Through the process of the photographic exploration, students will learn how science and math play a role in the success of photography. A final component of class will focus on projects, presentation, exhibition and professionalism of the work created in class. **Fees: \$20/semester.**

Fine Arts

A minimum of 1.0 FA credit is required.

VIDEO BROADCASTING/BRUIN VISION OPTIONS

6291 Video Broadcast 1 (a.k.a. Bruin Vision)

Grades: 10-12

1.0 Credit

Lights! Camera! ACTION! Have you ever thought it would be fun to create your own videos? If so this class is for you!! This course is designed to give you an overview and hands on experience to 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. Watch out Steven Spielberg, here we come!!

6293 Video Broadcast 2 (a.k.a. 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 incorporating how to add special effect 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, Flash, 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.*

MUSIC OPTIONS

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.*

Fine Arts

A minimum of 1.0 FA credit is required.

MUSIC OPTIONS-CONTINUED

6360 Symphonic Winds

Grades: 11-12

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.***

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.***

6410 Concert Orchestra

Grades: 9-12

1.0 Credit

The Capital High Concert Orchestra is open to all Freshman through Seniors with previous orchestral experience. If you do not have previous experience, but wish to be in Concert Orchestra, please contact Mr. Harris to set up a meeting time. The Capital High Concert Orchestra is a class where orchestral skills, including: technique, posture, leadership, theory, and history will be emphasized. Students are expected to practice weekly, 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 at least four major concerts and performances at District Music Festival. All students must have their own instrument for this class. If a student does not or is not able to own/rent an instrument, they must contact Mr. Harris to make arrangements for a school instrument. Selection of school instruments is very limited and will be based on need. Cello's and Bass' will be provided an instrument and bow for school use, as available. ***Prerequisite(s): Previous orchestra experience, and/or a meeting with the director.***

Fine Arts

A minimum of 1.0 FA credit is required.

MUSIC OPTIONS-CONTINUED

6420 Chamber Orchestra

Grades: 9-12

1.0 Credit

For the 2017-2018 school year, the Capital High School Chamber Orchestra will be open to Freshman through Seniors with at least 3 years' previous orchestra experience. The Chamber Orchestra will perform at a minimum of 4 concerts and District Music Festival in the spring. The Chamber Orchestra will be playing very high levels of music; therefore, members of the Chamber Orchestra will be expected to practice daily. Also, it is highly recommended that members take private lessons. Prerequisite: Concert Orchestra or 3 years' previous orchestra experience, and audition by director. Audition materials will be available at the end of February. Auditions will be held in the Capital High Auditorium in the end of May. All students must have their own instrument for this class. If a student does not or is not able to own/rent an instrument, they must contact Mr. Harris to make arrangements for a school instrument. Selection of school instruments is very limited and will be based on need. Cello's and Bass' will be provided an instrument and bow for school use, as available.

Prerequisite(s): Audition and selection required -AND- Concert Orchestra or 3 years' previous orchestra experience.

6450 Wire Choir

Grades: 10-12

1.0 Credit

Last Chance Gulch Wire Choir is designed for any and all players of string instruments (i.e. Violin/fiddle, viola, cello, bass, mandolin, banjo, and "limited" Guitar etc.) Students will learn repertory selected from all styles and sources. Students will be taught by 'rote' (note reading will not be necessary). The goal of the class is to develop each student's repertory, culminating in public performance. Students are assessed aurally as in traditional music performance classes.

Prerequisite(s): Signature of Mr. Harris is required on registration form. Students must already be proficient at their instrument.

6510 Women's Choir

Grades: 9-12

1.0 Credit

This class is an opportunity for any female, grades 9-12, who has a special interest in singing. No student will be refused admittance except where there is limitation in space facilities, or good vocal balance dictates otherwise. Students will study music theory, sight-reading, and music appreciation through class participation, performances, and district music festival. **Prior choir experience is helpful, but not necessary. No audition is required.**

6511 Men's Choir

Grades: 9-12

1.0 Credit

This class is an opportunity for any male, grades 9-12 who has a special interest in singing. No student will be refused admittance. Students will study music theory, sight reading, and music appreciation through class participation, performances and District Music Festival. **Prior choir experience is helpful, but not necessary. No audition is required.**

6560 Jubiletttes

Grades: 10-12

1.0 Credit

This is a select women's choir. Members are required to have at least one year in Women's 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 music theory, sight reading, and music appreciation through class participation, performance and District Music Festival. **Prerequisite(s): Audition and selection required**

Fine Arts

A minimum of 1.0 FA credit is required.

MUSIC OPTIONS-CONTINUED

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 Men's Choir, Jubilettes, or Women's 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 music theory, sight reading, and music appreciation through class participation, performances and District Music Festival. *Prerequisite(s): Audition and selection required.*

6571 Jazz Choir

Grades: 10-12

1.0 Credit

This is a select choir of up to 16 voices. Membership will vary based on ability and voicing. This class emphasizes repertoire in pop and jazz styles, and requires a skillful ear to hear and maintain close harmonies. Students will study music theory, sight reading, and music appreciation through class participation, performances and District Music Festival. *Prerequisite(s): Audition and selection required -AND- Concurrent enrollment in a music ensemble.*

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.

DRAMA OPTIONS

6700 Theater 1

Grades: 9-12

1.0 Credit

This is an introductory course to theatre and all its wonders. No experience? No problem! You'll be introduced to the basic elements of the theatre itself as well as the foundational tools to begin acting like a pro! You will be expected to memorize monologues, design and perform with puppets, act in scenes with your peers and more. Some film history is also included in this course.

6710 Theater 2

Grades: 10-12

1.0 Credit

This course strengthens technique learned in Theatre 1. This year we focus on your voice, shaping its range, and your overall awareness of yourself on stage with the use of intentions. We will cover some theatrical concepts such as monologues, scenes, radio plays, storybook theatre, and more. *Prerequisite(s): Theater 1. Audition and selection required.*

6720 Theater 3

Grades: 11-12

1.0 Credit

This course combines third and fourth year students and delves into the nuance of theatre. Students will be expected to write scripts, edit and shoot short films, and analyze canonical plays from around the world. An acting component exists, but on a higher, professional level, with an emphasis on movement and presence. *Prerequisite(s): Theater 1 and 2. Audition and selection required.*

Career & Technical Education: Industrial Technology

A minimum of 1.0 VOC credit is required.

CHS INDUSTRIAL TECHNOLOGY COURSES RECOMMENDED SEQUENCE OF COURSES					
Grade 9	Industrial Technology				
Following Industrial Technology, students can then choose a CTE concentration.					
	Welding ↓	Drafting ↓	Carpentry ↓	Construction ↓	Auto ↓
Grade 10	Welding 1	Drafting 1	Carpentry 1	Introduction to Construction	Auto 1
Grade 11	Welding 2	Drafting 2 (Mechanical)	Cabinetmaking 2 or Carpentry 2/House Building	Carpentry 1	Auto 2
Grade 12	Welding 3/ Machining 3	Drafting 3 (Architectural)	Cabinetmaking 2 or Carpentry 2/House Building	Carpentry 2/ House Building	Auto 3

7100 Industrial Technology

Grades: 9-12

1.0 Credit

This course is designed for students to develop introductory skills and knowledge in a wide variety of industrial related processes, systems, and tools. The content of the course is based on drafting, construction, woodworking, cabinetmaking, problem solving, engineering and power tool technology. This is a great “hands-on” class for students to learn a wide variety of useful skills and knowledge while strengthening academic skills as they apply to industrial problems. *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: \$35**

7102 Introduction to Construction

Grades: 10-12

1.0 Credit

Through hands on studies students will learn the basics of new construction practices, safe tool practices, Blueprint reading and jobsite safety. The purpose of this class is to get students ready for the advanced classes of Carpentry 1 or house building. Tools that will be covered are; Circular saw, Chopsaw, Table saw, Framing nailer, reciprocating saw, and a wide variety of layout tools. Through guest speakers and field trips students will also have the opportunity to learn from Industry professionals about best practices, business procedure, and safety.

7140 Drafting 1 (Basic Drafting)

Grades: 10-12

1.0 Credit

This is an individualized instruction program designed to acquaint students with basic drafting equipment and procedures. The course includes the use of drafting instruments, lettering, geometric construction, sketching and multi-view drawing. This course is recommended for those students contemplating a career in construction, engineering or architecture. Basic Drafting (Drafting 1) is a prerequisite for all other drafting courses.

7153 Drafting 2 (Mechanical Drafting)-S1

Grades: 11-12

.5 Credit

7154 Drafting 2 (Mechanical Drafting)-S2

Grades: 11-12

.5 Credit

This is the continuation of Basic Drafting, which allows the student to pursue, in more depth, their particular area of interest in Drafting. It will also cover drafting media, reproductions and inking. May be repeated for credit each semester. Second semester students enrolled in this class will be introduced to computer aided drafting, three-dimensional modeling and animation. All design and drawing will be accomplished using computers, plotters and printers. Recommended for those contemplating a career in engineering. **Prerequisite(s): Drafting 1.**

Career & Technical Education: Industrial Technology

A minimum of 1.0 VOC credit is required.

7163	Drafting 3 Arch. (Architectural Drafting)-S1	Grades: 11-12	.5 Credit
7164	Drafting 3 Arch. (Architectural Drafting)-S2	Grades: 11-12	.5 Credit

One set of house plans will be designed and drawn. Student will learn drawing conventions, individual room design, perspective drawing and rendering. May be repeated for credit each semester. Second semester students enrolled in this class will be introduced to computer aided drafting, three-dimensional modeling and animation. All design and drawing will be accomplished using computers, plotters and printers. Recommended for those contemplating a career in construction or architecture. **Prerequisite(s): Drafting 1.**

7170	Carpentry 1	Two Hours	Grades: 10-12	2.0 Credits
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Carpentry 1 is a prerequisite for 7180 & 7190. In this class, students learn the basic terminology and practices of both residential construction and cabinetmaking. Each student is required to construct a model house, using all aspects of residential construction. Students will participate in a field trip to the school house and will be engaged in speeches by guests. Students will learn the proper use of tools and their applications. Quality construction techniques, fasteners, hinge installation and finishing practices will be stressed. Dove tail drawer and shaper door are each a requirement that must be done on a project. Safety practices will be taught. *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 and tape measure, along with materials for projects. Fees: \$25

Prerequisite(s): Industrial Technology.

7180	Carpentry 2/House Building	Two Hours	Grades: 11-12	2.0 Credits
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Carpentry is designed to increase the students understanding of the fundamentals of residential house construction. The course consists of the following units of instruction: building and lot location, concrete, frame work, roofing, stair construction, external finishing, interior finishing, and estimation. Lecture, demonstrations and hands-on experience are the methods of teaching used. This course of study will benefit any person who plans on owning, building or buying a house. **Materials Required: Safety glasses. Prerequisite(s): Carpentry 1.**

7190	Cabinetmaking 2	Two Hours	Grades: 11-12	2.0 Credits
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Woodworking and Cabinet making will provide opportunity to increase woodworking skills. Students learn how to safely operate all power and hand tools provided in the lab. Instruction will be by lecture, film, demonstration and "lots of" hands-on activity. Students are expected to be ready to build individual projects with various joints and a higher degree of difficulty on their projects. Good construction techniques, fastener, hinge installation and finishing practices will be stressed. After completing the required course work, the student will be expected to build a project or projects of his/her own choosing. Examples of projects that may be built are: gun cabinets, waterbeds, tables, cabinets, games, etc. This class will taught from a business perspective with each student involved in custom cabinetry and installation procedures. Guest speakers and area experts will be used to enhance the curriculum. Materials for required projects will be furnished by the school. Students must furnish materials for projects of their choice. **Materials Required: Safety glasses and tape measure. Fees: \$25. Prerequisite(s): Carpentry 1.**

Career & Technical Education: Industrial Technology

A minimum of 1.0 VOC 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. A student failing the 1st semester will not continue to the 2nd semester. **Materials Required: Safety glasses. Fees: \$45.**

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. A student failing the 1st semester will not continue to the 2nd semester.

Materials Required: Safety glasses. Fees: \$45. 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. A student failing the 1st semester will not continue to the 2nd semester.

Materials Required: Safety glasses. Fees: \$45. Prerequisite(s): Adv. Auto Tech 2 (C or higher recommended).

7230 Welding 1 Grades: 10-12 1.0 Credit

This is an introductory technical welding course designed to develop student skills in Shielded Metal Arc welding, Gas Metal Arc welding, and Oxy/Acetylene welding. Students will also be introduced to forging, metallurgy, metal forming, and basic project construction. Students will do at least one personal welding fabrication project each quarter. 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 gloves, pliers, coveralls, *safety glasses, leather boots, 1" 3-ring binder. Welder's cap is recommended. Fees: \$35 (*includes costs for gloves and safety glasses).**

Career & Technical Education: Industrial Technology

A minimum of 1.0 VOC credit is required.

7240 Welding 2 (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:** \$125. **Prerequisite:** Welding 1 (C or better recommended).

7250 Welding 3

Two Hours

Grade: 12

2.0 Credits

DUAL CREDIT Helena College: WLDG 112 Cutting Processes

**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 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 welding program. 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 2 (C or better recommended).

7255 Machining 3

Two Hours

Grade: 12

2.0 Credits

DUAL CREDIT Helena College: MCH 234 CNC Milling Operations

**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 Level 2 Milling 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 a job shadow at the end of 2nd semester with a Montana manufacturing business. 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. **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 2 (C or better recommended).

Career & Technical Education: Business Education

A minimum of 1.0 VOC credit is required.

BUSINESS 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 ethic is expected and learned through everyday class procedures. A cooperative work experience is available to upper-level students; membership in Business Professionals of America, a co-curricular student organization, is an option for all students enrolled in a business class.

Some business courses are available for dual credit through Helena College and/or certification as noted.

It is our goal to provide students with rigorous, relevant courses that will better prepare them for the real-world.

BUSINESS 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
Money Management	Money Management	Money Management	Money Management
Career Planning	Career Planning	Career Planning	Career Planning
	Desktop Publishing	Desktop Publishing	Desktop Publishing
	Graphic/Web Design	Graphic/Web Design	Graphic/Web Design
		Law & Justice	Law & Justice
	Microsoft Office WORD*	Microsoft Office WORD*	Microsoft Office WORD*
	Microsoft Office EXCEL*	Microsoft Office EXCEL*	Microsoft Office EXCEL*
	Accounting 1*	Accounting 1*	Accounting 1*
		Accounting 2	Accounting 2
			Accounting 3
			College and Career Seminar for Seniors
		AP Economics	AP Economics
	Business/Marketing Co-op **	Business/Marketing Co-op **	Business/Marketing 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 is open to all students currently or previously enrolled in a business class.

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

Career & Technical Education: Business Education

A minimum of 1.0 VOC 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, 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, databases, and presentations using Microsoft Office Word, Excel, Access, and PowerPoint. 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.***

7310 Money Management

Grades: 9-12

1.0 Credit

Money Management 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. Class work, homework, and tests are all part of the final grade.

7320 Desktop Publishing (Adobe InDesign and Photoshop)

Grades: 10-12

.5 Credit

Desktop Publishing combines text and graphics to produce professional-quality publications such as advertisements, newsletters, resumes, letterheads, awards, reports, brochures, business cards and much more. Students will produce documents that communicate effectively through the use of design principles and the application of basic concepts of desktop publishing using industry-standard software such as Adobe InDesign and Photoshop. Adobe Illustrator may also be incorporated.

7322 Graphic Web Design (Adobe Photoshop and Animate)

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 will also experience computer animation through the use of Adobe Animate. Graphic Web Design encourages creativity, independence, and design technique. Students may also have the opportunity for real-world application by creating an actual project for the Helena community. Exploration of other design software including Dreamweaver and Fireworks may be incorporated.

7330 Career Planning

Grades: 9-12

.5 Credit

Do you know what you'll do with the rest of your life? Do you wonder if you will be successful in the career you think you want as an adult? Better yet, do you wish you even had a clue about what career you would enjoy? Have you started to think about what happens after high school? How much money does it take to live anyway? If you are interested in figuring out what you want out of life and becoming confident that you will be able to make that happen for yourself, sign up for Career Planning! YOU are the topic of study! Discover what aspects of your life should be looked at when choosing a career. This class is appropriate for all students whether college bound or not. You'll end the semester better equipped to make your life a success!

Career & Technical Education: Business Education

A minimum of 1.0 VOC credit is required.

7332 Senior Career Planning

Grade: 12

.5 Credit

Selecting a college/training program upon graduation is a stressful and expensive venture. The purpose of this course is to provide an opportunity for students to learn about and adopt methods to promote their success in post-secondary training including 2- and 4-year schools, apprenticeships, military and certification programs. Students will complete the FAFSA, college/training applications, personal resume, scholarships and a budget. Students will also be introduced to a variety of colleges/training programs and their resources, selected study skills and personal resource management methods that support success in school and life.

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

DUAL CREDIT Helena College: CAPP 154 MS Word

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

Microsoft Word is a word processing application used as a tool for creating professional-looking documents and basic Web pages. 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. Students may also have an opportunity to explore Microsoft Office Access, PowerPoint, and/or Publisher at the end of the semester. ***Prerequisite(s): Basic Computer Skills and/or Tech Skills for Life***

7361 Microsoft Excel

Grades: 10-12

.5 Credit

DUAL CREDIT Helena College: CAPP 156 MS Excel

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

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 today our information-driven world 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 at the end of each chapter. Students may also have an opportunity to explore Microsoft Office Access, PowerPoint, and/or Publisher at the end of the semester. ***Prerequisite(s): Basic Computer Skills and/or Tech Skills for Life***

7370 Accounting 1

Grades: 10-12

1.0 Credit

DUAL CREDIT Helena College: ACTG101 Accounting Procedures

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

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.

Career & Technical Education: Business Education

A minimum of 1.0 VOC credit is required.

7371 Accounting 2

Grades: 11-12

1.0 Credit

Accounting 2 is for students who plan to prepare for job-entry accounting in business offices, or who plan to enroll in related college or technology school courses. Accounting 1 concepts will be reinforced and built upon. Accounting for partnerships and corporations will also be emphasized. Students will be introduced to QuickBooks and keep financial records for a business.

Prerequisite(s): Accounting 1

7374 Accounting 3

Grade: 12

1.0 Credit

Accounting 3 is a continuation of Accounting 2 for those students with an avid interest in choosing accounting or finance as a profession. Areas of study will include: analyzing financial statements, voucher systems, departmental accounting, and manufacturing accounting. More in-depth use of QuickBooks will be utilized in this course. Students may have the opportunity for a professional accounting-related internship. **Prerequisite(s):** Accounting 1 & 2

7380 Business Cooperative

Grades: 10-12

.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, receives 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, daily sign-ins, 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 business or marketing class along with this course to qualify.

BUSINESS RELATED COURSES

1460 Yearbook

Grades: 10-12

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 must be enrolled in this course. **Eligible for VOC credit, with counselor approval.**

Prerequisite(s): Application and selection required.

1462 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.

2506 Economics AP

Grades: 11-12

1.0 Credit

****Registering for an AP course is meant to be a YEAR-LONG COMMITMENT. If you wish to drop an AP course, you will have to wait until one week after the semester begins. **** Advanced Placement Economics is designed for juniors or seniors who are interested in a strenuous in-depth economics course. The course provides students with the analytical skills and factual knowledge to deal critically with modern macro and micro economic theory. Activities include reading economic journals, mathematical graphing and statistics, discussions, debates, and individual as well as group projects. This course requires a solid math background. Students must be able to read graphs, solve and graph equations and evaluate data. Students taking this course are eligible to take the Advanced Placement (AP) Economics Exam (Exam Fee: approx. \$95), 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. **Eligible for VOC credit, with counselor approval.**

Career & Technical Education: Business Education

A minimum of 1.0 VOC credit is required.

MARKETING EDUCATION

Marketing Education is a process composed of activities designed to create exchanges that satisfy individual and organizational objectives. The Marketing and Sports Entertainment, Small Business Management and Marketing Management courses are designed around national standards for Marketing Management, Entrepreneurship and Sports Management. All of these courses are designed to help deliver a good service to users/consumers, change behaviors, or influence ideas. Career opportunities in marketing can be found in all types and sizes of business. In the 21st century, economic survival in nearly any business setting or profession will depend on the ability to understand and execute business skills such as marketing. Marketing Education provides those skills.

MARKETING EDUCATION COURSE OFFERINGS

Grade 9	Grade 10	Grade 11	Grade 12
Marketing Ed 1	Marketing Ed 1	Marketing Ed 1	Marketing Ed 1
	Small Business Management-S1	Small Business Management-S1	Small Business Management-S1
	Small Business management-S2	Small Business management-S2	Small Business management-S2
	Sports & Entertain. Marketing	Sports & Entertain. Marketing	Sports & Entertain. Marketing
		Marketing Management	Marketing Management
	Business Co-Op**	Business Co-Op**	Business Co-Op**

**Must be concurrently enrolled in another marketing or business course to take this course



Distributive Education Clubs of America (DECA)

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

7400 Marketing Ed. 1

Grades: 9-12

1.0 Credit

Marketing is intended for those who want to learn marketing operations and develop basic employment skills. If you want to continue your education in business administration, management, marketing, advertising, and public relations or simply choose to enter the business world, give this course serious thought, you will receive experience in business communications, sports and entertainment marketing, product development, advertising-including television & radio production and newspaper layout and design, sales, customer service and shoplifting and security issues. This class allows for opportunities in DECA which plans and implements Night to Shine and options to compete Vocational or elective credit can be applied in to this class.

7414 Small Business Management-S1

Grades: 10-12

.5 Credit

7415 Small Business Management-S2

Grades: 10-12

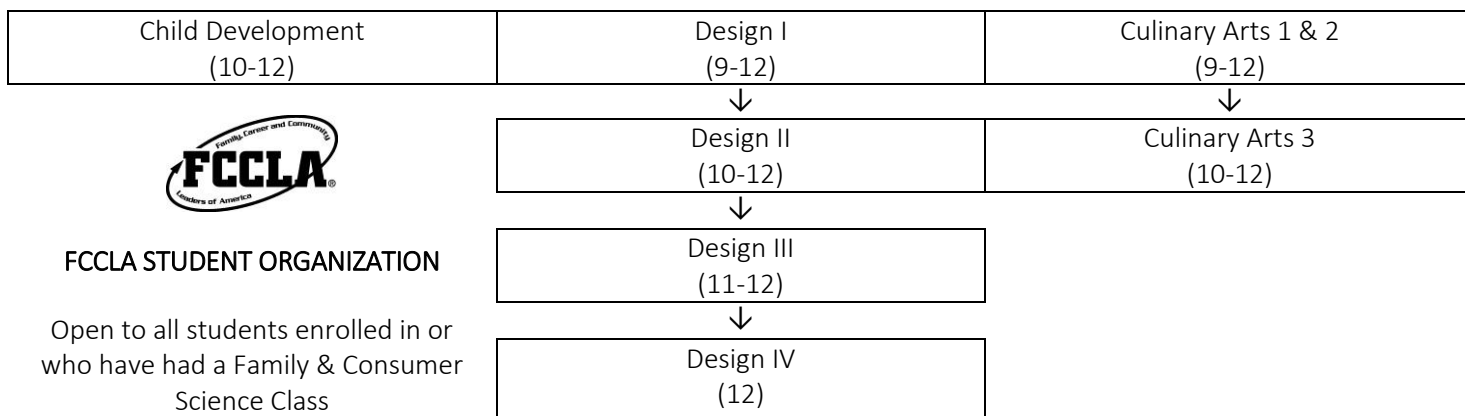
.5 Credit

Small Business Management is a course in business ownership, management and marketing. You will study entrepreneurship topics covering financing, advertising layout and design, and all the aspects to creating a business plan. This class also involves the operation of Capital High School store, the **Bear Necessities**. The **Bear Necessities** is a retail-training laboratory which provides opportunity for development of skills and knowledge through "hands-on" experience in purchasing, selling, pricing, promotion, product and service planning, customer service, individual and group critical thinking and decision-making. These skills are taught and reinforced through Virtual Business-Retail (S1). In addition this class, participation in the Montana High School Business Challenge allows the class to learn the aspect of business management through competition. Financial Literacy and the development of a business plan complete the year (S2). 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 and options to compete at state and national levels in marketing and business entrepreneurship.

Career & Technical Education: Family & Consumer Sciences

A minimum of 1.0 VOC credit is required.

FAMILY & CONSUMER SCIENCE COURSE SEQUENCES



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. **Fees: \$40.**

7540 Culinary Arts 3

Grades: 11-12

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: \$40. Prerequisite(s): 7535-Culinary Arts 1 & 2.**

Career & Technical Education: Family & Consumer Sciences

A minimum of 1.0 VOC credit is required.

7550 Design I-Fashion (and Interior) Design

Grades: 9-12

1.0 Credit

This course focuses on the principles of design as it relates to clothing and interior design. Fashion focuses on an individual's clothing style and basic sewing construction techniques. Students will dye fabric and express their creativity with individual projects utilizing a computerized sewing machine, Serger, and embroidery machines. Hands-on activities include color analysis, style and body proportion to enhance the appearance of a student's individual shape. The students will also make pajama pants, bag, photo pillow, and embroidered pillowcase or laundry bag. Interior Design students will utilize computer-assisted software to draw housing plans and select home furnishings. Students will go on field trips to select appliances, countertops, flooring, interior colors, and lighting in collaboration with the building trade's class who are building a spec house. Basic sewing supplies will need to be purchased. **Fees \$20.00.**

7552 Design II-Fashion Design

Grades: 10-12

1.0 Credit

In Design II, the students will build upon their acquired skills in Design I focusing on clothing construction, fashion merchandising, textiles, consumerism, and career opportunities. The primary focus will be for students to utilize current technology (computerized sewing machines, sergers, and embroidery machines) through construction projects.

Fees: \$15. Prerequisite(s): 7550-Design I.

7554 Design III-Fashion Design

Grades: 11-12

1.0 Credit

In Design III, the students will continue to build on their clothing construction skills through the creation of individual projects. Students will greatly enhance their sewing skills with this class. **Fees: \$15. Prerequisite(s): 7552-Design II.**

7555 Design IV- Fashion Design

Grade 12

1.0 Credit

In Design IV, In Design III, the students will continue to build on their clothing construction skills through the creation of individual projects. Students will greatly enhance their sewing skills with this class. **Fees: \$15. Prerequisite(s): 7554-Design III.**

7560 Child Development

Grades: 10-12

1.0 Credit

This course is designed for students interested in infants and young children; Child Development presents a thorough study of early human development. Topics include pregnancy, childbirth, infant care, emotional, social, intellectual and physical development of children through the sixth year of life. Students will have the opportunity to wear an empathy belly which simulates pregnancy and will take home "Baby Think It Over" overnight to experience parenting. Insight into child development is also gained when students operate a play-school in the spring for children who are three, four and five years of age. This class offers young people the opportunity to examine their future role as a mother or father in an effort to prepare for this important life event. Child Development will also be of interest to any student planning a career in teaching, pediatric nursing, child psychology, day care services or any field related to children.

Career & Technical Education: Biomedical Sciences

A minimum of 1.0 VOC credit is required.

BIOMEDICAL SCIENCES OPTIONS

PROJECT LEAD THE WAY® BIOMEDICAL SCIENCES

Project Lead The Way® Biomedical Sciences program 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

Students investigate the human body systems and various health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. They determine the factors that led to the death of a fictional person, and investigate lifestyle choices and medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, medicine, research processes and bioinformatics. This course is designed to provide an overview of all the courses in the Biomedical Sciences program and lay the scientific foundation for subsequent courses.

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

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.**

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

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.

Specialized Courses

8200 Carroll College: Early Access Program

Grade: 12

The Carroll College Program is designed to offer selected eleventh and twelfth grade students with superior academic achievement the opportunity to undertake additional academic challenge and to begin college work on a limited basis at Carroll during the school day in courses not offered at the high school level. Carroll College covers the costs of tuition, but books and some fees are the responsibility of the student. Courses taken are subject to availability and must be approved by the high school. Carroll courses cannot be taken in lieu of required high school courses. A minimum cumulative grade point average of 3.25 is required. Students must also meet entrance and financial obligations imposed by Carroll College. See your counselor for program information and application for enrollment. ***Prerequisite(s): Application and admission are required.***

8204 Helena College

Ages 16 & Older

Students may enroll in technical and general education courses applying toward associate degree in high-wage, high-demand occupations such as Computer, Diesel, Auto, Construction, Aviation Maintenance, and Metals Technology. Nursing, Accounting and university transfer courses are also available at Helena College. The cost of the program is borne by students. The high school will be responsible for recommending students to participate in the Dual Credit program at Helena. Acceptance into the program is subject to availability and non-duplication of high school courses. The principal's approval must be secured before any student can submit an application to Helena College. Students must also 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.

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.

9100 Frosh Physical Education

Grade: 9

1.0 Credit

This course uses differentiated Instruction to create an environment where all shapes, sizes, and ability levels are able to be safe and successful in gaining knowledge or skill to use for a lifetime. The emphasis of Frosh PE is regular participation in a variety of enjoyable fitness activities that promote life-long health and active living. Students will participate in small sided activities, Zumba, Body Pump, Pilates, Core stability, circuit training, aerobics, walking, running, cycling, snowshoeing; just to name a few. The focus will be on achieving and maintaining a health-enhancing level of physical fitness; while understanding the value of physical activity for health, enjoyment, challenge and social interaction.

9200 Soph Physical Education

Grade: 10

.5 Credit

Sophomore PE activities include Tennis, Archery, Folf, Dance, Basketball, Volleyball, Juggling, Track & Field, Physical Fitness, Softball, Table Tennis, Ultimate, weight Training, Snow Shoeing, Lacrosse, Speedball, Pickleball, TchoukBall and Angle Ball.

These courses will also introduce students to the Bigger Faster Stronger program. Students will be instructed on the *Six Absolutes of BFS* as they pertain to weight training, flexibility, agility, plyometrics, and running skills.

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 in order to provide a basis for future decision-making. Special emphasis is given to body systems and mental/social and emotional health and personality.

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 previous PE teacher is required on registration form.*

9343 Freshman Weight Training

Grade: 9

1.0 Credit

Through participation in a variety of movement activities consisting of flexibility work, running, plyometric conditioning, and agility drills, with emphasis on individual and group weight training programs, students will achieve and maintain a challenging level of health and skill related fitness. *This class will satisfy the freshman PE requirement. Freshman who want to take the course, but are unable to get enrolled, may be interested in taking Weight Training and Conditioning as an elective alternative.*

9106 Personal Wellness-S1

Grades: 9-12

.5 Credit

9107 Personal Wellness-S2

Grades: 9-12

.5 Credit

The Primary focus of this course is to guide and motivate students to maintain and/or improve a health enhancing level of physical Fitness. Through participation in a variety of enjoyable fitness activities students will understand the benefits of physical activity and how exercise can improve their emotional, mental, physical and social health. Activities for Personal Wellness include but are not limited to: walking, running, flexibility, core stability, Body Pump, Pilates, Zumba, Yoga, cycling, hiking, snowshoeing. Personal Wellness is open to all students in grades 9-12. **This course may satisfy the Physical Education requirement, with counselor approval.**

Physical Education and Health

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

9325	F.A.S.T. (Fitness, Agility, Strength, & Technique)-S1	Grades: 9-12	.5 Credit
9326	F.A.S.T. (Fitness, Agility, Strength, & Technique)-S2	Grades: 9-12	.5 Credit

Fitness, Agility, Strength & Technique (F.A.S.T.) is a semester course, which is co-educational and open to all students in grades 9, 10, 11 and 12. An innovative approach to training - working on a solid fitness foundation while staying focused on each student's individual goals. The program will include instruction in movement training, injury reduction, linear and lateral speed development, foot speed and agility, proper weight training techniques, explosive power development, and functional strength training. Signature of Mr. Burk required on registration form.

9330	Athletic Training CPR	Grades: 10-12	.5 Credit
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In this class students will learn the basic principles of athletic training. These experiences will include the basics of injury assessment and taping for injury prevention, as well as exploration of professional careers related to physical education, medicine and athletic training. The class will also teach the basic procedures for Cardio-Pulmonary Resuscitation (CPR) and first aid. Opportunities for certification in CPR and First Aid will be available in this class. Health occupation careers will be explored.

9341	Physical Conditioning-S1	Grades: 9-12	.5 Credit
9342	Physical Conditioning-S2	Grades: 9-12	.5 Credit

Weight Training and Conditioning is a co-educational class open to all students in grades 9, 10, 11, and 12. The foundation of this course is the Bigger, Faster, Stronger – Total Program. Students will learn the BFS Readiness program, moving into the primary BFS program. Students will participate in flexibility, agility, plyometric, and running skills, as well as weight lifting. The BFS Six Absolutes are the cornerstone of this program.

9402	Lifetime Sports-S1	Grades: 11-12	.5 or Credit
9403	Lifetime Sports-S2	Grades: 11-12	.5 or Credit

The physical education program offered to juniors and seniors and puts emphasis on advanced lifetime sports activities, this class will be offered daily, on a semester basis to junior and senior students who are interested. This course involves a wide variety of activities such as: Bowling, Group Games, Swimming, Ice-Skating, Table Tennis, Tennis, C. P. R., Life Saving, Skills, Skeet Shooting, Winter Survival, Golf, Orienteering, Skiing, Dance, Folf, Snow Shoeing, Trap Shooting, Missouri River Float, Archery, yoga and hiking. ***The fee per semester is \$100.00. The fee must be paid in the first week of the semester. Preference is given to seniors. Prerequisite: Students MUST have passed P.E. 1 & 2 and demonstrated safety competencies as verified by the instructor***

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
Ms. Jamie Bawden	jbawden@helenaschools.org	324-2492	L-Ri
Mr. Chance Ferlicka	cferlicka@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: Mrs. Doran 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, Mrs. Doran, 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.

Career Cruising is an Internet-based career exploration and planning tool used by students to explore career and college options and develop a career plan. Guidance counselors present college and career planning lessons each year utilizing Career Cruising. Students complete interest and skills inventories that link them to careers and colleges. Students discover their learning style which helps them to develop healthy and successful learning habits. Students create a resume which can be updated and accessed at any time for job applications. The Career Center Coordinator uses the college and job links to connect students with College representatives, scholarship information and college program information. Career Cruising can be accessed from school, from home, or wherever students have access to the Internet at www.careercruising.com



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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

Class of 2019 Requirements	Class of 2020+ Graduation Requirements	Grade 9	Grade 10	Grade 11	Grade 12
ENG 4.0 Credits	ENG 4.0 Credits				
SST, USH & AMG 3.0 Credits	SST, USH & AMG 3.0 Credits				
MTH 2.0 Credits	MTH 3.0 Credits				
SCI 2.0 Credits	SCI 2.0 Credits				
FOREIGN LANGUAGE 0 Credit	FOREIGN LANGUAGE 0 Credit				
FA 1.0 Credits	FA 1.0 Credits				
VOC 1.0 Credit	VOC 1.0 Credit				
HP 1.5 Credits HE .5 Credits	HP 1.5 Credits HE .5 Credits				
ELECTIVES 6.0 Credits	ELECTIVES 7.0 Credits				
MINIMUM REQUIREMENT 21.0 Credits	MINIMUM REQUIREMENT 23.0 Credits				