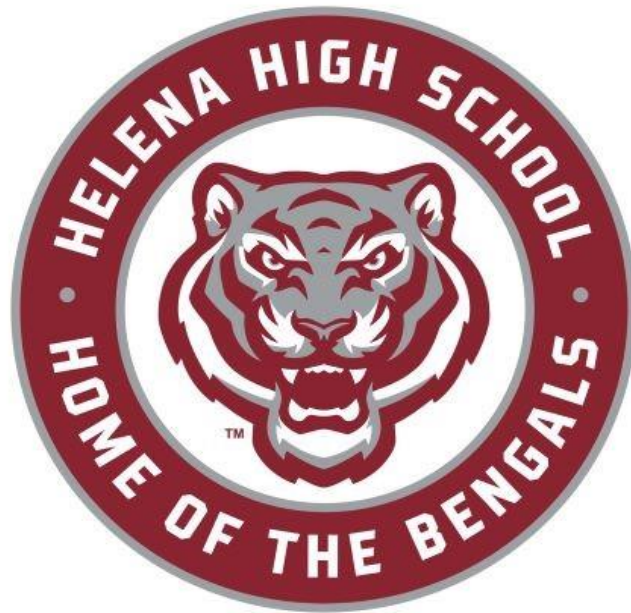


HELENA HIGH SCHOOL



An MBI Gold Award School

We are Bengal Strong
Registration & Guidance Material
2023 - 2024

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Courses in this bulletin are listed and identified by title. Also shown along with the title are the years it may be taken and the credit allowed. A course registration number appears at the left of each course title listed in this bulletin. This number will become very important in the registration process.	
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Registration and Guidance Material **2023-24 School Year**

This bulletin is designed to help you and your parents select proper courses for the coming year. Please read it carefully. Talk your concerns over with your parents, your counselor, 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, in large measure, will determine what you will do later. Students who plan to attend college should take courses tending to meet the general requirements for the specific college or university of their choice.

The enrollment of Helena High School for the year 2023-2024 will be around 1000 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. Changes in scheduling at the beginning of the academic year are not a guarantee and will be granted only as seats allow. Please carefully plan your course requests in the spring.

This booklet explains Helena High'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 preliminary registration form. Students will be scheduled for the entire year according to the choices they select. Students selecting full-year courses are expected to remain in that course the entire year. All students will register for at least 6 credit bearing classes per school board policy. By the end of senior year, all credits must be fulfilled in order to participate in the graduation ceremony.

Helena Public Schools Graduation Requirements

Courses:	Credits Received:
1. Four (4) years of English.....	4
2. One (1) year of Social Studies	1
World Cultures	
3. One (1) year of American Government	1
4. One (1) year of American History.....	1
5. Two (2) years of Science	2
6. Three (3) years of Mathematics	3
7. One & one-half (1.5) years of Human Performance.....	1.5
8. One-half year (.5) of Health.....	0.5
9. One (1) year of Fine Arts.....	1
Art, Music, Drama, and Photography	
10. One (1) year of Career and Technical Education/Practical Arts	1
Industrial Arts, Family and Consumer Science, Health Careers, Auto Mechanics, Carpentry, Welding, Drafting, Marketing and Business	
11. Electives.....	7
Total: 23 Credits	

MUS Admissions Standards

*Please note: Montana Colleges have shifted to test optional for admission requirements. However, test scores are considered for course placement. These are the standards used pre-COVID. Please monitor the Montana University System web page for changing requirements.

2.5 GPA or
Rank in top ½ of class or
Test scores

- **MSUN** **ACT: 20** **SAT: 1050**
- **MSUB, MSU, UM, Tech, and UMW** **ACT: 22** **SAT: 1120**

And

College Prep curriculum
(<http://www.mus.edu/asa/hscp/index.asp>)

And

Math proficiency standards:

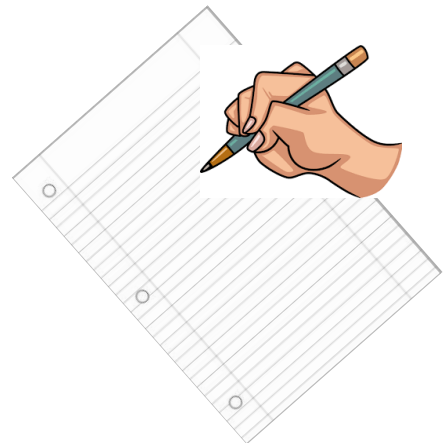
- **ACT 22 or**
- **SAT 27.5 or**
- **Complete the Rigorous Core**



And

Writing proficiency standards:

- **ACT optional writing test 7 or**
- **ACT ELA 18 or**
- **SAT writing essay 25**





NCAA FRESHMAN-ELIGIBILITY STANDARDS

QUICK REFERENCE SHEET

KNOW THE RULES:

Core Courses

NCAA Division I and II require 16 core courses. Ten of the 16 courses must be completed before the 7th semester (before senior year begins.) See the chart below for the breakdown of this 16 core-course requirement. Please access the NCAA website for more information: www.eligibilitycenter.org.

Test Scores

Division I has a sliding scale for test score and grade-point average. The sliding scale may be found online at the NCAA Eligibility Clearinghouse website. www.eligibilitycenter.org.

Division II requires a minimum of 820 on the SAT (critical reading and math only) or a sum of 68 on the ACT.

The SAT score used for NCAA purposes includes **only** the critical reading and math sections. The writing section of the SAT is not used.

The ACT score used for NCAA purposes is a **sum** of the four sections on the ACT: English, mathematics, reading and science.

All SAT and ACT scores must be reported directly to the NCAA Eligibility Center by the testing agency. Test scores that appear on transcripts will not be used. When registering for the SAT or ACT, use the Eligibility Center code of 9999 to make sure the score is reported to the Eligibility Center.

Grade-Point Average

Only core courses are used in the calculation of the grade-point average.

Be sure to look at your high school's list of NCAA-approved core courses on the Eligibility Center's Web site to make certain that courses being taken have been approved as core courses.

Division I grade-point-average requirements are listed on the above website. Currently, student-athletes must average a 2.3 in the core area.

The Division II grade-point-average requirement is a minimum of 2.000.

Registration: Student-athletes must register with the NCAA Clearinghouse. This is a recommended step following the completion of the student's junior year. Register online at www.eligibilitycenter.org.

DIVISION I ~ 16 Core-Course Rule

16 Core Courses:

- 4 years of English.
- 3 years of mathematics (Algebra I or higher).
- 2 years of natural/physical science (1 year of lab if offered by high school).
- 1 year of additional English, mathematics or natural/physical science.
- 2 years of social science.
- 4 years of additional courses (from any area above, foreign language or non doctrinal religion/philosophy).

DIVISION II ~ 16 Core-Course Rule

- 3 years of English.
- 2 years of mathematics (Algebra I or higher).
- 2 years of natural/physical science (1 year of lab if offered by high school).
- 3 years of additional English, mathematics or natural/physical science.
- 2 years of social science.
- 4 years of additional courses (from any area above, foreign language or non doctrinal religion/philosophy).

NCAA Approved Core Courses

English 1 (Honors)	Algebra 1
English 2 (Honors)	Honors Math 1
English 3 (Honors)	Geometry
AP English 3	Honors Math 2
English 4	Algebra 2
AP English 4	Pre-Calculus
Creative Writing	College Algebra
Debate	Statistics
Speech	AP Calculus
English Comp 121	College Calculus
Science Fiction	Biology I and II (Honors)
Word Clues	AP Biology
American Government	Earth Science (Honors)
AP Government	Chemistry I and II
American History	CSI Forensics Science
AP History	AP Environmental Science
Current Issues	Physics
Montana History	Science Seminar
Psychology	Principles of Biomedical Science
AP Psychology	Human Body Systems
Social Problems	Medical Interventions
World Cultures (Honors)	Biomedical Innovations
World History	Spanish 1, 2, 3, 4 and 5
AP European History	Latin 1 and 2
AP Statistics	French 1, 2, 3, 4 and 5
	German 1, 2, 3 and 4



NAIA Eligibility Standards

What is the NAIA Eligibility Center?

The NAIA Eligibility Center is responsible for determining the NAIA eligibility of first-time student-athletes. Any student playing NAIA sports for the first time must meet the eligibility requirements. Students must have their eligibility determined by the NAIA Eligibility Center, and all NAIA schools are bound by the center's decisions.

Access the NAIA website for more information: www.PlayNAIA.org.

Who needs to register?

Every student interested in playing sports at NAIA colleges for the first time in 2011-12 or any year after that needs to register and have their eligibility to play determined. This applies to:

- **High school seniors**
- **Current NAIA students who will play sports for the first time at an NAIA school**
- [Transfers from two-year colleges](#)
- [Transfers from four-year colleges](#)

What information will I need to provide?

You'll need your current contact information, previous residences and addresses, high schools attended and history of your sports participation during and after high school graduation.

When you register for the ACT or SAT, include the NAIA Eligibility Center (9876) **9876** on the list of places test scores should be sent. Ask your high school counselors or college registrar to send your transcript to the NAIA Eligibility Center. For high school students, the official transcript must verify high school graduation, class rank and cumulative grade point average.

Can I receive an early eligibility decision?

Yes. High school students who complete their junior year with an overall 3.00 GPA on a 4.00 scale and have scored at least 18 on the ACT or 860 on the SAT may receive an early eligibility decision. To receive an early decision, register with the NAIA Eligibility Center, have your high school send official transcripts to the Eligibility Center and contact ACT or SAT to have your test scores sent to the NAIA (Address Code 9876).

Do I need to register if I'm registering with the NCAA Eligibility Center?

Yes. Determining if you meet eligibility requirements for NAIA eligibility is separate from NCAA eligibility certification. The NAIA and NCAA are two separate associations, with two different sets of rules and certification processes.

What are the costs?

Registration for students from the U.S. is \$80. Registration for international students is US\$85. This is a one-time nonrefundable [registration fee](#), and all services of the NAIA Eligibility Center are included. The NAIA Eligibility Center will determine your eligibility based on your academic record and additional information you provide. Here's how it works:

High School Students

If you will graduate from high school this spring and enroll in college this coming fall, the requirements are simple. High school graduation, plus **two out of three** of these requirements:

1. ACHIEVE A MINIMUM
OF 18 ON THE ACT
OR 860 ON THE SAT.

2. ACHIEVE A MINIMUM
OVERALL HIGH SCHOOL
GPA OF 2.0 ON A 4.0 SCALE.

3. GRADUATE IN THE TOP
HALF OF YOUR HIGH
SCHOOL CLASS.



MHSA Eligibility for Activities

Academic Eligibility for Activities MHSA

The Board of Trustees recognizes the value and contributions of high school activities. The Trustees further recognize that academic growth is the primary mission of the school program. Policies pertaining to scholastic standing, transfer, award and other regulations can be found at: www.mhsa.org.

Helena High Schools is a member of the governing body of the Montana High School Association. To be eligible to participate in an Association Contest, a student shall meet all of the following criteria:

- be regularly enrolled in twenty hours per week at the school where the student participates.
- be in regular attendance.
- have received a passing grade and received credit in at least twenty periods of prepared class work or its equivalent in the last previous semester, at the school where the student participates.
- If a student is assigned an "incomplete" in a subject, he/she has not received a passing grade in this subject.

HEF Distinguished Scholar 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.

Special Help

It is necessary to have firm registration figures in order to secure the necessary teachers, order supplies, and arrange class schedules. You will be able to make schedule changes only under unusual circumstances, so plan carefully with teachers, counselors, and parents. There are three special areas at Helena High where students can receive guidance and assistance:

1. Counseling and Career Center

Four counselors attend to students alphabetically throughout the duration of their high school time. Counselors help with course placement for graduation, career direction, and social/emotional development through individual and group activities. Available in the Counseling/Career Center are many sources of information, both hard cover and computer based, related to career and college search, scholarships/financial aid, and college placement testing. A career counselor is available daily to help students and parents become familiar with the many career-training options.

2. Special Services

Special Services offers programs for students with special needs. Students must qualify for special education under one of the following handicapping conditions: learning disability; cognitive delay; deaf blindness; deafness; emotional disturbance; hearing impairment; other health impairment; orthopedic impairment; speech-language impairment; traumatic brain injury; visual impairment, injury. Specialists include a speech therapist, psychologist, physical therapist, occupational therapist, nurse, adaptive PE teacher and resource teachers. Students will receive their education in the least restrictive environment determined by the IEP team.

3. Title I

The Title 1 program at Helena High School is designed to offer classes and services to eligible students in Reading and Math. Eligibility is determined based on test score criteria and teacher referral or student need. Title 1 support provides a wealth of individualized attention. See a guidance counselor or administrator to inquire about enrollment.

Assistant Principals:

Julie Tenyenhuis (A-L)

Willie Schlepp (M-Z)

School Counselors:

Jaime Pandis (A-E)

Ellaina Staldine (F-L)

Jason Murgel (M-R)

Chrissy Murgel (S-Z)

All students (9-12) are assigned an assistant principal and counselor based on last name.

Dual Credit Opportunities:

All dual credit courses count as both high school and college credit. The courses are taught on the campus of Helena High. Students are responsible for college registration, cost of tuition, and fees. Students must be at least 16 and/or a junior to qualify. Math classes require C's or higher to place in for dual credit. ***Due to potential changes in staffing and instructor credentials, the availability for dual credit may not be guaranteed.***

Helena College Courses:

College Writing - (3) credits (WRIT 101 College Writing)
Introduction to Literature - (3) credits (LIT 110 Intro to Lit)
Intro to Psychology- (3) credits (PSYX 100)
Technical Writing - (3) credits (WRIT 121T)
Pre-Calculus - (4) credits awarded in spring semester; tuition and fees due in fall (M151 Pre-Calculus)
Elements of Calculus - (4) credits for the year; awarded in the spring (M171 Calculus 1)
College Algebra - (3) credits; first semester only (M121 College Algebra)
Statistics - (3) credits; second semester only (STAT 216 Introduction to Statistics)
Tech Math - (3) credits for the year; credits awarded in the spring (M111T Technical Math)
Contemporary Math- (3) credits; first semester only (M105 Contemporary Math)
Theater 1 - (3) credits (THTR 101 Introduction to Theater)
Theater 2 - (3) credits (THTR 120 Introduction to Acting)
Accounting - (3) credits for year (ACTG 101 Accounting Procedures)
Welding II, III or IV - (3) credits for year (Welding 107 Industrial Safety for Welding, 180 SMAW and Oxyacetylene Welding)
Microsoft Word – (3) credits for Semester (CAPP154 MS Word)
Microsoft Excel – (3) credits for Semester (CAPP156 MS Excel)
Computer Science Semester 1 - (3) credits for semester (CSCI 107 Joy and Beauty of Computing)
Computer Science Semester 2 - (3) credits for semester (CSCI 100 Intro to Programming)
Computer Science Semester 3 - (4) credits for semester (CSCI 111 Programming with Java 1)

Gallatin College:

Drafting Year 1 - (3) credits (Fundamental Drafting)
Drafting Year 2 - (3) credits (Computer Aid Drafting (AutoCAD))
Drafting Year 3 or 4 - (3) credits (3D Printing & Mechanical Design)
Drafting Year 3 or 4 - (3) credits (Architectural House Design)

Missoula College Courses:

Culinary III - (2) credits (CULA 105 Food Service Sanitation)
Welding II, III and IV - (4 credits for year WLDG 180 Shielded Metal Arc)

AP Courses:

These rigorous courses are offered on the Helena High campus. Students pay approximately \$100 to take a College Board AP test in May. The registration process is facilitated by the AP Coordinator and the HHS bookkeeper. The test is scaled from 0-5, and students must achieve at least a 3 in order to have the AP course count as college credit.

The university determines the type of credit (required or elective). The following courses are the AP options:

- AP Chemistry
 - AP Language
 - AP Literature
 - AP US History
 - AP Government
 - AP Psychology
 - AP European History
 - AP Calculus
 - AP Statistics
 - AP Biology
 - AP Human Geography
- AP Spanish 5
 - AP Environmental Science
 - AP Research
 - AP Seminar

AP Capstone is an exciting new program from the College Board. Over the course of the program, students will develop research questions about topics that interest them and develop critical research, writing, and speaking skills for college.

It's based on two year-long AP courses: AP Seminar and AP Research.

Rather than teaching subject-specific content, these courses develop students' skills in research, analysis, evidence-based arguments, collaboration, writing, and presenting. Students who complete the two-year program can earn one of two different AP Capstone awards, which are valued by colleges across the United States and around the world.

For more information, visit www.ap.collegeboard.org.

To find out more about credit policy, visit <https://apstudents.collegeboard.org/getting-credit-placement/search-policies>.



ACCUPLACER / ACT / SAT – Placement Chart

<u>MATH - Placement</u>				
	ACT	SAT	ACCUPLACER Quantitative, Algebra, Statistics	ACCUPLACER Advanced Algebra Function
M080 Pre-Algebra & Algebra I M105 W/005 M108T Business Math M111T w/060 (200-219) M111T Technical Math (220-239) M120T Math w/Health Care App	16 & below		200-239	
M092 Algebra I M105 W/005	17 - 19	Needs ACCUPLACER	240-300	200-219
M093 Algebra II (STEM Prep) M105 Math for the Liberal Arts M115 Probability & Linear Math M132 Numbers & Ops K-8 Teachers M133 Geometry & Geometric K-8	20	490	QRAS does not determine M093 placement. With a score higher than 263, tester will take AAF for placement.	220-249
M121 College Algebra M234 Advanced Topics K-8 *STAT216 Introduction to Statistics	22	530		250-262
M151 Pre-Calculus	24	570		263-270
M171 Calculus I	27	610		271-300

Bold = Placement code in Banner (SOATEST)

*Students that successfully pass M105, with a C- or better, are eligible to take STAT216

<u>Writing (English) Placement</u>				
	ACT (2015 and prior)	ACT (2016 and on)	SAT	ACCUPLACER
Refer to Adult Basic Education (ABE)	0-6 Writing sub score OR 13-15 English/Writing	13-15 ELA	0-6 Essay 200-439 Writing	200-220
WRIT 101 W/96 College Writing W/Lab	16-17 (E/W)	16-17 (ELA)		221-249
WRIT 101 College Writing	7 Writing sub score OR 18 English/Writing	18 ELA	7 Essay 440 Writing	250-300

Bold = Placement code in Banner (SOATEST)

Montana Career Pathway

Business Management and Marketing

This plan of study should serve as a guide, along with other career plan materials, throughout high school. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. All plans should meet high school graduation requirements and college entrance requirements.

(Lower-level classes can be taken after the grade they are listed, but you must follow the course sequence)

	Core Classes	Business	Marketing
9th Grade	-English -Math -Science -Social Studies -PE	Basic Computers Tech Skills Law & Justice Career Planning Consumer Math	Marketing I
10th Grade	-English II -Math -Science -PE/Health	Basic Computers Tech Skills BB - Computer Applications Law & Justice Career Planning Consumer Math Personal Finance Accounting	Marketing 1 Marketing 2 Sports and Entertainment Marketing Small Business Management
11th Grade	-English III -Math -Science -Social Studies	Basic Computers Tech Skills BB - Computer Applications Law & Justice Career Planning Consumer Math Personal Finance JMG Accounting	Marketing 1 Marketing 2 Sports and Entertainment Marketing Small Business Management 1 Small Business Management 2
12th Grade	-English III -Math -Science -Social Studies	Basic Computers Tech Skills BB - Computer Applications Law & Justice Career Planning Consumer Math Personal Finance JMG Accounting	Marketing 1 Marketing 2 Sports and Entertainment Marketing Small Business Management 1 Small Business Management 2
Work Based Learning		Business/Marketing COOP	
Dual Credit		CAPP154, CAPP156, Accounting 101	
Career & Technical Student Organization		BPA Mock Trial Montana Career Association DECA	
Industry Recognized Credentials		Conover Workplace Readiness Certiport and YouScience (through BPA)	

Sample Business Management & Marketing Jobs

The Business Management/Marketing pathways involve organizing and operating businesses, industries, and governments; marketing and selling products or services.

<u>High School/GED</u>	<u>1-2 Years Training/Education</u>	<u>4+ Years of College</u>
• Assessors • Bill & Account Collectors • Bookkeeping, Accounting, and Auditing Clerk • Brokerage Clerks • Computer Operators • Customer Service Representatives, Utilities • Data Entry Keyers • Dispatchers, Except Police, Fire & Ambulance • Entrepreneur • Insurance Claims Clerk • Interviewers, Except Eligibility and Loan • Library Assistants, Clerical • Loan Interviewers & Clerks • Meter Readers, Utilities • Office and Administrative Support Workers • Office Clerks, General • Payroll & Timekeeping Clerks • Postal Service Mail Carriers • Postal Service Mail Sorters, Processors, and Processing Machine Operators • Purchasing Agents, Except Wholesale, Retail, and Farm Products • Receptionists and Information Clerks • Retail Salespersons • Secretaries, Except Legal, Medical, and Executive • Shipping, Receiving, and Traffic Clerks • Tax Examiners, Collectors, and Revenue Agents • Telemarketers	• Administrative Services Managers • Bookkeeping, Accounting, and Auditing Clerks • Budget Analysts • Communication Equipment Mechanics, Installers, and Repairers • Compensation, Benefits, and Job Analysis Specialists • Computer Programmers • Computer, Automated Teller, and Office Machine Repairers • Court Reporters • Entrepreneur • First-Line Supervisors/Managers of Retail Sales Workers • Food Service Managers • General and Operations Manager • Human Resources Manager • Insurance Adjusters, Examiners, and Investigators • Insurance Sales Agents • Mechanical Drafters • Medical Transcriptionists • Paralegals and Legal Assistants • Real Estate Brokers • Sales Representatives, Services, All Other • Technical Writers • Title Examiners and Abstractors • Wholesale & Retail Buyers, Except Farm Products	• Accountants • Actuaries • Advertising and Promotions Managers • Business Teachers, Postsecondary • Claims Examiners, Property and Casualty Insurance • Computer and Information Systems Managers • Computer Hardware Engineers • Computer Systems Analysts • Credit Analysts • Entrepreneur • Financial Managers, Branch or Department • Human Resources, Training, and Labor Relations Specialists, All Other • Insurance Underwriters • Loan Officers • Management Analysts • Marketing Managers • Medical and Health Services Managers • Purchasing Agents, Except Wholesale, Retail, and Farm Products • Sales Agents, Securities and Commodities • Sales Managers • Statisticians • Treasurers, Controllers, and Chief Financial Officers • Market Research Analyst • Marketing Analyst • Digital Marketing Manager • Social Media and Content Manager • E-Commerce Marketing Manager

Montana Career Pathway

Finance

This plan of study should serve as a guide, along with other career plan materials, throughout high school. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. All plans should meet high school graduation requirements and college entrance requirements.

(Lower-level classes can be taken after the grade they are listed, but you must follow the course sequence)

	Core Classes	Finance
9th Grade	-English -Math -Science -World Cultures -PE	Basic Computers Tech Skills Law & Justice Career Planning Consumer Math
10th Grade	-English -Math -Science -PE / Health	Basic Computers Tech Skills Bengal Business-Comp Apps Law & Justice Career Planning Consumer Math Personal Finance Accounting
11th Grade	-English -Math -Science -US History	Personal Finance Accounting Bengal Business-Comp Apps JMG Small Business Management 1
12th Grade	-English -Government	Personal Finance Accounting Bengal Business-Comp Apps JMG Small Business Management 1
Work Based Learning		Business/Marketing COOP
Dual Credit		CAPP154, CAPP156, Accounting 101
Career & Technical Student Organization		BPA Mock Trial Montana Career Association DECA
Industry Recognized Credentials		Conover Workplace Readiness Certiport and YouScience (through BPA) Everfi Personal Finance Certifications

Sample Finance Jobs

<u>High School/GED</u>	<u>1-2 Years Training/Education</u>	<u>4+ Years of College</u>
• Assessors • Bill and Account Collectors • Bookkeeping, Accounting, and Auditing Clerk • Brokerage Clerks • Credit Authorizers • Checkers and Clerks • Insurance Claims Clerk • Loan Interviewers and Clerks • Payroll and Timekeeping Clerks • Tax Examiners, Collectors, and Revenue Agents • Tellers (Bank)	• Bookkeeper • Bookkeeping, Accounting, and Auditing Clerks • Brokerage Clerks • Budget Analysts • Entrepreneur • Insurance Adjusters, Examiners, Appraisers, and Investigators • Insurance Sales Agents • Tax Preparers	• Accountants • Actuaries • Broker • Budget Analysts • Business Teachers, Postsecondary • Claims Examiners, Adjusters Property and Examiners • Credit Analysts • Entrepreneur • Financial and Investment Analysts • Financial Managers, Branch or Department • Financial Risk Specialists • Insurance Sales Agents • Insurance Underwriters • Loan Officers • Personal Financial Advisers • Securities, Commodities, and Financial Sales Agents • Treasurers, Controllers, and Chief Financial Officers

The Finance pathway involves careers in accounting, financial and investment planning, banking, insurance, and business financial management.

Montana Career Pathway

Health Professions (Biomedical Science)

This plan of study should serve as a guide, along with other career plan materials, throughout high school. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. All plans should meet high school graduation requirements and college entrance requirements.

(Lower-level classes can be taken after the grade they are listed, but you must follow the course sequence)

	Core Classes	PLTW Biomed	Health Careers	Athletic Training	Other Sciences
9th Grade	-English I -Math -Earth Science -World Cultures -PE	Principles of Biomedical Science (Biomed 1)			
10th Grade	-English II -Math -Biology I -PE/Health	Human Body Systems (Biomed 2) PBS (Biomed 1)		Athletic Training/First Aid (1 semester)	Chemistry I AP Biology AP Seminar
11th Grade	-English III -Math -US History	Medical Interventions (Biomed 3) PBS (Biomed 1) HBS (Biomed 2)	Health Careers Exploration (2-periods, full-year)	Athletic Training/First Aid (1 semester)	Chemistry I AP Biology Biology II Physics AP Research AP Seminar AP Chemistry AP Enviro Sci
12th Grade	-English IV -Math -US Government	Biomedical Innovations (Biomed 4) PBS (Biomed 1) HBS (Biomed 2) MI (Biomed 3)	Health Careers Exploration (2-periods, full-year)	Athletic Training/First Aid (1 semester)	Science Seminar
Work Based Learning		Guest Speakers Field Trips Research Projects	St. Peter's Hospital Clinical Job Shadows	First Aid	
Dual Credit		BIOH 112, Human Form and Function I (3 credits) BIOH 113, Human Form and Function II (3 credits)			
Career & Technical Student Organization		HOSA Health Occupation Student Association			
Industry Recognized Credentials			Heartsaver First Aid/CPR Certification Certified Nursing Aid (CNA)	Heartsaver First Aid Certification	

Sample Health Professions (Biomedical Science) Jobs

The Health Professions pathway involves providing services/products relating to the health of people or animals.

<u>High School/GED</u>	<u>1-2 Years Training/Education</u>	<u>4+ Years of College</u>
• Ambulance Driver and Attendants, Except Emergency Medical Technicians • Dental Assistants • Dietetic Technicians • Home Health Aides • Interviewers, Except Eligibility and Loan • Licensed Practical and Licensed Vocational Nurses • Medical and Clinical Laboratory Technologists • Medical and Public Health Social Workers • Medical Assistants • Non-farm Animal Caretakers • Nursing Aides, Orderlies, and Attendants • Office Clerks, General • Phlebotomists • Psychiatric Aides • Radiologic Technologists	• Cardiovascular Technologists and Technicians • Dental Hygienists • Dental Laboratory Technicians • Diagnostic Medical Sonographers • Emergency Medical Technicians and Paramedics • Forensic Technicians • Licensed Practical and Licensed Vocational Nurses • Medical and Clinical Laboratory Technicians • Medical Assistants • Medical Equipment Repairers • Medical Records and Health Information Technicians • Nuclear Medicine Technologists • Occupational Therapist Assistants • Paramedics • Pharmacy Aides • Physical Therapist Assistants • Psychiatric Technicians • Radiology Technician • Respiratory Therapists • Surgical Technologists • Veterinary Technologists and Technicians	• Anesthesiologists • Biochemists • Biomedical Engineers • Counselors, All Other • Chemists • Dentists, General • Dietitians and Nutritionists • Educational, Vocational, and School Counselors • Family and General Practitioners • Funeral Directors • Forensic Scientists • Health Diagnosing and Treating Practitioners, All Other • Health Care Administrator • Health Educators • Medical and Health Services Manager • Mental Health and Substance Abuse Social Worker • Nurse Practitioner • Obstetricians and Gynecologists • Occupational Therapists • Optometrists • Oral and Maxillofacial Surgeons • Painters and Illustrators • Pharmacists • Physician Assistants • Physical Therapists • Physicians and Surgeons, All Other • Registered Nurses • Surgeons • Toxicologist • Veterinarians

Montana Career Pathway

Hospitality and Tourism

This plan of study should serve as a guide, along with other career plan materials, throughout high school. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. All plans should meet high school graduation requirements and college entrance requirements.

	Core Classes	Culinary
9th Grade	-English -Math - Science -Social Studies -PE	Intro to Culinary Career Planning Art 1
10th Grade	-English -Math -Biology -PE -Health	Intro to Culinary Career Planning Small Business Mgt 1 Art 1
11th Grade	-English -Math -Science -Social Studies	Intro to Culinary Culinary I and II (2-hour block) Career Planning Small Business Mgt II Art 1
12th Grade	-English Tech Writing DC) -Math (Tech Math DC) -Science -Social Studies	Intro to Culinary Culinary I and II Culinary III (Dual Credit, 2-hour block, 1 semester) Career Planning Art 1
Work Based Learning		Career Exploration Culinary III
Dual Credit		Missoula College Food Safety and Sanitation 2 credits
Career & Technical Student Organization		BPA JMG DECA
Industry Recognized Credentials		ProStart Level I and II ServSafe Employee Certification ServSafe Manager's Certification

Sample Hospitality & Tourism Jobs

The Hospitality & Tourism pathway involves providing business meeting and leisure activities including entertainment, recreation, lodging, food service, convention, travel and some types of personal services.

<u>High School/GED</u>	<u>1-2 Years Training/Education</u>	<u>4+ Years of College</u>
• Food Processing /Equipment Workers • Food Preparation Workers • Hotel, Motel and Resort Desk • Bakers •	• Chef and Head Cook • Dietetic Technician • Food Service Manager • Butcher Certification • Pastry Certification • Bread Baking Certification • Hospitality and Tourism Certification	• Chef and Head Cook • Dietitian and Nutritionist • Food Service Managers • Food Writers • Food Stylist • Food Critic • Food Photographer

Montana Career Pathway

Information Technology

This plan of study should serve as a guide, along with other career plan materials, throughout high school. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. All plans should meet high school graduation requirements and college entrance requirements.

***All classes can be taken any time after they are listed, but Computer Science and Cisco must be taken in sequence.**

	Core Classes	Computer Science/Cisco
9th Grade	-English -Math - Science -Social Studies -PE	Computer Science Semester 1 (Python Programming) *3 dual credits Helena College Computer Science Semester 2 (Java Programming) *3 dual credits Helena College Cisco 1 (Networking) Year
10th Grade	-English -Math -Biology -PE -Health	Computer Science Semester 3 (Java Programming) *4 dual credits Helena College Computer Science Semester 4 (Java Programming) Cisco 2 (Networking) Year Oracle (Databases & SQL) Year Basic Elements of Graphic Design Graphic Design 2
11th Grade	-English -Math -Science -Social Studies	Computer Science Semester 5 (Java Programming) Computer Science Semester 6 (Java Programming) Cisco 3 (Networking) Year
12th Grade	-English -Math -Science -Social Studies	Computer Science Semester 7 (Java Programming) Computer Science Semester 8 (Java Programming)
Work Based Learning		Computer Science Internships; Business Cooperative
Dual Credit		Helena College CSCI 107 Computer Science - Semester 1 (3 credits) Helena College CSCI 110 Computer Science - Semester 2 (3 credits) Helena College CSCI 111 Computer Science - Semester 3 (4 Credits)
Career & Technical Student Organization		Business Professionals of America (BPA) DECA
Industry Recognized Credentials		National Center for Women and Information Technology; Oracle Certification; Cisco Certification; Workplace Readiness Certification – Conover, Certiport and YouScience (through BPA)

Sample Information Technology Jobs

The Information Technology pathway involves the design, development, support and management of hardware, software, multimedia, and systems integration services.

<u>High School/GED</u>	<u>1-2 Years Training/Education</u>	<u>4+ Years of College</u>
• Computer User Support Specialist • Information Technology Technician • Web Developer or Designer • Graphic Designer • YouTube Vlogger • Professional Video Gamer • Online Entrepreneur • Tech Salesperson • Game Tester • Data Entry Technician/Typist • Help Desk Technician • Datacenter Technician I • Intel Technician • Computer/Printer Technician • Maintenance/IT Technician	• Computer Technician • IT Support Specialist • Computer Programmer • Software Engineer • Technical Writer • Network Administrator • Systems Analyst • Systems Administrator • Application Developer • Information Security Analyst • Database Administrator • Network Architect • Web Developer • Computer Network Support Specialist • Data Architect	• Computer Engineer • Database Administrator • Game Developer • Media Specialist • Network Security Analyst • Network Technician • Computer Network Architect • Software Design Engineer • Security Systems Administrator • Virtual Reality Specialist • Web Architect/Designer • Computer Hardware Engineer • Computer and Information Systems Manager • Business Systems Analyst • UX and UI Designers • Computer Scientist • Chief Information Officer • Information Security Specialist • Digital Forensic Examiner • It Auditor • Penetration Tester • Security Engineer • Security Architect • Cryptography Engineer • Cybersecurity Manager

Montana Career Pathway

Design & Construction/Transportation/ Welding & Fabrication

This plan of study should serve as a guide, along with other career plan materials, throughout high school. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. All plans should meet high school graduation requirements and college entrance requirements.

(Lower-level class can be taken after the grade they are listed, but you must follow the course sequence; all classes are yearlong unless otherwise stated)

	Core Classes	Welding	Drafting	Woods	Auto
9th Grade	-English -Math -Science -World Cultures -PE	Welding I (1 period)	Fundamental Drafting (1 period)	Fundamental Woodworking and Design (1 period)	Not offered to Freshman
10th Grade	-English -Math -Science -PE / Health	Welding II (2 periods)	Computer Aided Drafting (AutoCAD) (1 period)	Intermediate Carpentry and Cabinetmaking (2 periods)	Auto 1 (.5 semester)
11th Grade	-English -Math -US History	Welding III (2 periods) Welding/ Manufacturing Co-Op (2-3 hours a day)	3D Printing & Mechanical Design (1 period) Architectural House Design (1 period)	Advanced Carpentry & Cabinet Making (2 periods)	Auto II (1 period)
12th Grade	-English -Government	Welding IV (2 periods) Welding/ Manufacturing Co-Op (2-3 hours a day)	3D Printing & Mechanical Design (1 period) Architectural House Design (1 period)	Advanced Carpentry & Cabinet Making (2 periods)	Auto III (2 periods)
Work Based Learning		Welding/ Manufacturing Co-Op	Ind. Study thru Career Counselor		
Dual Credit		HC- 107 Missoula College 180	DDSN 113 DDSN 131 DDSN 135 DDSN 166		
Career & Technical Student Organization		SkillsUSA, American Welding Society, Drafting Club			
Industry Recognized Credentials		OSHA 10 AWS D1.1 Certification		OSHA 10	ASE Test in Brakes ASE Test in Electrical

Sample Design & Construction/Transportation/Welding & Fabrication Jobs

The Manufacturing/Construction/Transportation pathways involve changing raw materials into goods and services; building and maintaining various types of structures; moving people and/or goods.

<u>High School/GED</u>	<u>1-2 Years Training/Education</u>	<u>4+ Years of College</u>
• Automotive Mechanic • Autobody Technician • Diesel Mechanic • Construction Laborers • Well Drillers • Electrical Power-Line Installers and Repairers • Excavating and Loading Machine Operators • Graders, Bulldozers, and Scraper Operators • Heating and Air Conditioning Mechanics • Industrial Machinery Mechanics • Locksmiths & Safe Repairers • Photoengraving & Lithography Machine Operators & Tenders • Production Inspectors, Testers, Graders, Sorters, Samplers, Weighers • Railroad Yard Workers • Roofers • Shoe & Leather Workers and Repairers • Stationary Engineers • Structural Iron & Steel Worker • Tile and Marble Setters • Welders and Cutters • Drywall and Ceiling Tile Installers • Carpenter • Drafter	• Architectural Drafters • Automotive Mechanic • Autobody Technician • Diesel Mechanic • Construction and Building Inspectors • Project Managers • Plumbers • Service Managers • Machinist • Electrical Power-Line Installers and Repairers • Ironworker • Boiler Maker • Pipe Fitter • Electrician • Carpenter • Drafter	• Aerospace Engineers • Air Traffic Controllers • Architectural Drafters • Aviation Inspectors • Civil Engineers • Construction Managers • Electronics Engineers, Except Computer • Industrial Engineers • Industrial Safety and Health Engineers • Licensing Examiners and Inspectors • Mechanical Engineers • Occupational health and Safety Specialists • Surveyors • Urban and Regional Planners • Automotive Mechanic • Autobody Technician • Diesel Mechanic • Welding Engineer • Metallurgical Engineer

Montana College and Career Readiness

The goal of the Office of Public Instruction is to ensure that every student graduates from high school prepared to succeed in college, the military or the workforce. A college and career ready student has the following:

Academic and Technical Knowledge and Skills	Employability Knowledge and Skills
A college and career ready student is prepared to complete a freshman level postsecondary course of study without remediation as demonstrated by: • Completion of a rigorous high school curriculum; • Participation in college preparation and college level courses; • Participation in career preparation programs; and • An understanding of college and career planning and the admissions and financial aid process	A college and career ready student is prepared to connect their education to employment opportunities, as demonstrated by: • Goal setting and planning; • Clear and effective communication skills; • Critical thinking and problem solving skills; • Working independently and in teams; • Effective knowledge and use of technology; and • Ability to work with diverse groups
Work Ethic and Professionalism	Measures for Career Readiness
A college and career ready student understands the expectations of the workplace as demonstrated by: • Attendance and punctuality expected by the workplace • Workplace appearance appropriate for position and duties • Motivation and taking initiative, taking projects from initiation to completion • Understanding workplace culture, policy and safety, and respecting confidentiality and workplace ethics	A student is career ready if they have identified a career pathway and have completed three or more of the following benchmarks while in high school: • 90 percent attendance • 25 hours of community service • Industry credential or certificate • Career pathway course with college credit • Work-based learning experience • Two or more organized co-curricular activities such as a Career and Technical Student Organization (CTSO) • An understanding of career choices based on employment and labor market statistics • An ability to analyze the cost of college as it relates to a variety of careers and occupations



Montana
Office of Public Instruction
Denise Juneau, State Superintendent

opi.mt.gov

ENGLISH

The English Department of Helena High School presents balanced instruction in reading, writing, speaking, and listening to enable students to be proficient readers, writers, and thinkers in today's world. Through study of contemporary and classic literature, students gain reading comprehension as they study fiction, nonfiction, drama, poetry, and film. The English Department uses the Bengal Writing Program, ensuring a writing-intensive learning experience. Students use the writing process--planning, drafting, revising, editing, and publishing--with a minimum of eight process pieces per year. In addition, students develop poise as speakers, communicate effectively in an organized manner, and become discriminate listeners.

Freshman, sophomore, junior and senior English are required. An honors program is offered at each level and provides an opportunity for students with superior skills and interest to study on a more creative and in-depth basis.

Senior English offers students a variety of courses on various levels: Advanced Placement (AP) English Literature and Composition, College Literature and College Writing, or core class selection.

AP Seminar and Research, Speech, Debate, Yearbook, Reading the Movies, Creative Writing, Science Fiction, and Journalism round out the program and provide opportunities for students to sharpen their skills in vocabulary, debate, speaking, and writing.

1100 English 1

Required: 9
Full Year – 1 Credit

This class emphasizes expository and creative writing, vocabulary development, and communications skills. A variety of literature is examined, including short stories, mythology, drama, and poetry. Classroom methods include lectures, audiovisual materials, textbook reading, and discussions. In making the transition from middle school to high school, students learn the importance of the course's evaluative criteria: timely homework completion, class participation, papers, and tests.

1101 English 1 – Honors

Elective*: 9
Full Year – 1 Credit

As in the regular English course, the Freshman Honors class stresses writing, reading, discussion, and communication skills. Honors-level instruction focuses on in-depth involvement in diction, syntax, and organization of descriptive and expository paragraph and essay writing. Challenging reading materials are used as the basis for in-depth skill work in expression – both verbal and written.

Prerequisite: Completion of summer reading and related assignments.

1200 English 2

Required: 10
Full Year – 1 Credit

In sophomore English, students read both fiction and non-fiction works with increasing complexity including novels, short stories, drama, poetry, memoirs and essays. Students will compose two significant writing pieces per quarter in addition to other extended responses. Students learn grammar and punctuation skills in order to improve the clarity of their writing. Vocabulary instruction focuses on Latin roots and on terms used in analyzing writing. Students are encouraged to create ideas, develop those ideas, and communicate them logically. They have many opportunities to gather and assess information, think critically, solve problems, and express their thoughts during discussions and in writing.

1201 English 2 – Honors

Elective*: 10
Full Year – 1 Credit

In a more challenging and enriched version of the required course, Honors English II students build on skills developed the preceding year to achieve competence in writing persuasive and expository essays. A variety of pre-writing methods prepare students to respond to literature creatively, analytically, and critically, both in oral and written form. Students read literature from many genres in the tragic, romantic, comic, and ironic modes. The success of the class rests on mutually inspirational student presentations and projects, a commitment to discussion, and a desire to write.

Prerequisite: Completion of summer reading and related assignments.

1300 English 3

Required: 11
Full Year – 1 Credit

Students write a variety of longer expository compositions this year, using skills learned in their earlier English classes, including a range of book reviews, responses to the literature studies, essay tests, and personal essays. The year also features a chronological and/or thematic study of American literature from colonial times into the 20th century. Classroom techniques include individual projects, lectures, and discussions. Students are evaluated on daily work, written work, and tests.

1306 English 3 AP Language

Elective*: 11 – 12
Full Year – 1 Credit

English III Advanced Placement English Language and Composition is a rigorous and challenging course requiring students to read and write at the college level. Close reading of fiction and nonfiction of American literature enables students to recognize the elements of rhetoric and apply these to their own writing. Students are expected to take the College Board Advanced Placement exam in English Language and Composition in May. A satisfactory grade ensures a quarter or semester course waiver by most colleges. A passing score on the AP test will transfer to the Montana University System as Writ 101.

Prerequisite: Completion of summer reading and related assignments.

English 4 Core Options

Required: 12
Full Year – 1 Credit

These courses serve to benefit students bound for any post-secondary pursuit: college/university study, the job market, the military, etc. By design, students choose a pair of semester-long courses based on theme and interest. The main objective of all of the course pairings is to help students.

Students will register for ONE of the following pairings:

1413 Pair One – Sports Literature/Satire and Humor

Sports Literature

“Game on!”—William Shakespeare

Even Shakespeare knew a good game when he saw one, and the power of competition resonate through literature. Using some of the best contemporary American fiction and non-fiction writing about sports (authors like Maclean, Epstein, Gary Smith and films like 42), this course will focus on the impact of sports and the outdoors on individuals and societies.

Satire

To laugh out loud even as you’re terrified and alarmed. To love what you criticize or despair of it. Such is the nature of Satire. In this course, we’ll attempt to discover how literature and film can be so funny and disturbing at the same time. Using works by Aristophanes, Swift, Salinger, Orwell, and Heller as well as contemporary film and television, we’ll attempt to understand and define the satiric experience.

1414 Pair Two – Mythology/British Literature

Mythology

Myths, fables and legends are the origins of world literature and provide insight into the foundations of our contemporary society. An examination of unique cultural points of view and the similarities that bind us all will be a focus of the class as we read works such as creation myths, *The Odyssey*, *Beowulf*, and legends of King Arthur. We will cover a variety of myths from cultures around the world, including Greek/Roman, Norse, Blackfeet and other American tribes, Incan, Persian, Japanese, African, and more. These stories will allow us to explore the field of comparative mythology and the themes that have influenced human civilization for millennia.

British Literature

“British Literature spans about 1500 years—from Old English poems to modern bestsellers.” The goal of this course will be to connect the old with the new by examining the cultural and historical contexts of plays, poems, stories, and novels from the UK and Ireland, as well as from regions colonized by the British. We will begin by reading older British texts by canonical authors, such as Chaucer and Shakespeare, and then move forward in history with works by Oscar Wilde, the Romantic poets, and Arthur Conan Doyle.

1415 Pair Three – Mystery, Adventure and Contemporary Literature

Mystery and Adventure

Ready to explore the Hero's Journey and fall into a marvelous adventure? Or investigate a mystery no one can solve? In this course, participants will discover an enjoyment of secrecy and intrigue, pursuit, and excitement. These fast-paced stories will keep you on the edge of your seat until the very end. Do not miss the discovery this course has in store!

Contemporary Literature

Literature is often a reflection of society. Contemporary values, concerns, and conflicts are best examined through a critical lens. In this course, participants will be exposed to a wide variety of fiction, non-fiction, and film that directly explore what it means to be a member of our contemporary society and the sometimes ethical/moral complications that come with it.

1416 Pair Four – Holocaust/Crime Literature

Holocaust Literature

This class will focus on the memoirs, novels, essays, poetry and other literature written not only about the Holocaust during World War II, but other racial and tribal conflicts throughout history. Our focus will be on the personal impact of oppression and the vitality of the human response.

Crime Literature

Some of the most engaging literature ever written focuses on the criminal mind. Crime Literature will examine the investigation and trials of some of America's most infamous criminals. Students will also explore the roles of the victims and the complex issues surrounding the surviving family members of victims. The causes of crime and the effect of crime on the individual and on society will be studied. Authors may be chosen from the following: Capote, Bugliosi, Grisham, Shakespeare, Doyle, Christie and more.

1418 Gothic and Horror Literature

Elective*: 12

Full Year – 1 Credit

This course will explore the evolution of the Gothic and Horror genre in American Literature. As we study this genre, we will unpack the key elements and applications of literary texts and their connections to societal values of character and ethical paradigms between right and wrong. This genre is unique in its primary goal to evoke emotion and elicit reader responses of shock and fear as it pushes the limits of what is considered culturally acceptable and at the same time uses style, characters, setting and plot to reach the human psyche and engage readers. Study authors from Edgar Allen Poe to Stephen King. You will be immersed in the world of literature and writing all while participating in rotating literature pods for continuous analysis and discussion.

1406 English 4 – Advanced Placement

Elective*: 12

Full Year – 1 Credit

Advanced Placement English is a high-level learning experience focusing on first-year college material. The classics are read in all genres: short stories, novel, poetry, drama, and essay. Students are expected to take the College Board Advanced Placement exam in May. A satisfactory score ensures a quarter or semester course waiver by most colleges and will count as Lit 110 in the Montana University System. Prerequisite: Signed commitment form attached to registration materials and completion of summer reading and related assignments.

1457 Writing 101

Elective*: 12

Dual Credit- Helena College (3 credits)

Semester – .5 Credit

Students are able to fulfill a semester of required senior English while earning 3 credits in college composition through Helena College. This semester course is designed to give students experience with the written expression of ideas in expository form. The course emphasizes the development of ideas; the use of research; and the awareness of audience, structure, and clarity. All students planning to take this class must have passed one of these three options: 1) the ACT Writing Exam (given in the spring of the junior year) with a 7 or higher OR 2) an 18 on the ELA section of the ACT OR 3) the Accuplacer Exam given at Helena College.

1458 English Literature 110

Elective*: 12

Dual Credit- Helena College (3 credits)

Semester – .5 Credit

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. Students successfully completing this dual credit class will earn both .5 English credit for Helena High School and three college credits for Literature 110 that transferable to any Montana public college or university (4-year program).

1459 Tech Writing

Dual Credit- Helena College (3 credits)

Elective*: 12

Full Year – 1 Credit

Writing for the real world and writing for work is different than writing for school, though lesson and styles overlap. In Technical Writing, students will learn to create and edit effective pieces of writing for diverse audiences, including professional and technical fields. Students will work on the mechanics of writing and editing, audience analysis, style, and tone – all for specific purposes and audiences. We will also spend time learning how to write for the electronic media. Products of Technical Writing will include but are not limited to: manuals, how to (instructions), process, analysis, presentations, business models, leaflets/brochures, and business plans.

English Electives

1410 Studies in Science Fiction (Historical)

Elective: 11 – 12

Semester – .5 Credit

Discover the journey of Artificial Intelligence, the intrigue of Possible Human Futures, and the possibility of Time Travel. Participants in this course will discuss novels, films, and short stories centering around time-honored Science Fiction authors such as H.G. Wells, Ray Bradbury, Isaac Asimov, Arthur C. Clarke, The Original Star Trek and Twilight Zone plus more! *Prerequisite: Willingness to read and discuss curriculum

1411 More Studies in Science Fiction (Contemporary)

Elective: 11 – 12

Semester – .5 Credit

Some of the greatest pieces of Science Fiction do live in the past, but that does not mean modern pieces cannot keep up! Delve into the world of contemporary Sci-Fi and decipher the differences between Sci-Fi and Fantasy. Participants in this course will discuss novels, films, and short stories centering around relevant Science Fiction authors such as Andy Weir, Orson Scott Card, Ursula K. Le Guin, Star Wars, Black Mirror and more! *Prerequisite: Willingness to read and discuss curriculum (1410 is NOT a prerequisite for this course)

1420 Speech

Elective: 9 – 12

Semester – .5 Credit

The purpose of this course is to introduce the student to the various speaking situations an individual may encounter in his/her lifetime. From simple explanations of why we should study communication to a formal persuasive talk; this course will be a valuable aid in personal communications and will prepare you for college interviews, job interviews, and work communication.

1425 Debate

Elective: 9 – 12

Semester – .5 Credit

This course will focus on debate, in both academic and everyday contexts. Students will learn research skills, effective argumentation, and the ability to evaluate the arguments of others. Students will develop effective advocacy and public speaking skills. We will also focus on current events in controversy, and the rhetorical approaches that advocates use to convey their point of view. Competitive elements of high school policy debate and Lincoln-Douglas debate will be highlighted. The class is open to all grade levels. Even though Debate is listed as a semester class, the option is available to take the class only during 1st semester, only 2nd semester or during both semesters.

1435 Reading the Movies

Elective: 12

Semester – .5 Credit

The course will examine film chronology, genre and directorial style along with some film terminology. Students will view approximately twenty films and will be required to write film critiques, compare and contrast essays, character analysis, persuasive essays and demonstrate in class “live” critiques. This course involves some home viewing and independent research.

1445 Creative Writing

Elective: 11 – 12
Semester – .5 Credit

This course is designed for the aspiring writer. Students will develop their writing skills through the genres of short stories, personal narrative, poetry, screenplay, and short fiction. Concepts in action during the course include sharing and individual editing and evaluating, multiple drafting of pieces, conferencing with the instructor, and sharing of finished works. Evaluation is based on day-to-day work and culminates with a collected works portfolio and a public reading final exam. Prerequisite: A serious attitude towards one's writing.

1450 Newspaper

Elective: 10 – 12
Full Year – 1 Credit

Be part of Helena High's student newspaper, the Nugget. Writing and interviewing skills are essential in this year-long course, but students may explore other creative positions such as graphic artist, cartoonist, and photographer. Members of the staff are required to regularly attend events outside of school (sports, theater productions, club meetings, dances, etc.), to take pictures, and to conduct interviews for the paper. Please check out our work at <https://thenugget.net> to see if you're interested in joining the team.

An understanding of journalistic principles is required; therefore, students must complete journalism prior to taking newspaper OR have instructor approval.

1460 Yearbook

Elective: 10 – 12
Full Year – 1 Credit

Yearbook offers an opportunity for students to incorporate photography, writing, and computer technology to create the school yearbook. Members of the staff are required to regularly attend events outside of school (sports, theater, club meetings, dances, etc.), take pictures and get quotes! If you're interested in publication design, this class gives students access to and training in professional software programs like Adobe Photoshop and Adobe InDesign. Members of the VIGILANTE staff must be approved by the advisor and must begin this class at the start of the fall semester. If you are creative, enjoy attending school events, and can work on a deadline, this is the place for you!

1470 Journalism

Elective: 9 – 12
Semester – .5 Credit

Journalism is a prerequisite to joining the Nugget newspaper. It is a semester-long course designed to explore many facets of our modern media. Students will learn how to write news stories, opinion pieces, reviews, and profiles. Students will learn interviewing skills, caption-writing, and photojournalism skills. Students will follow current events and analyze bias in the news they encounter. We will discuss the ethics of journalism and current issues journalists face today. If you are a curious person who enjoys writing and stepping out of your comfort zone, journalism is the class for you! In order to take newspaper, you must pass journalism class and receive instructor approval.

8205 AP Seminar

Elective: 10 – 12
Full Year – 1 Credit

Interested in conspiracy theories? How Hollywood creates and perpetuates gender roles? Subjects ranging from Science to Art? In **AP Seminar**, you'll have the chance to have interesting discussions about topics like these and more as you learn how to write and present findings in an inquiry-based course focused on your academic interests and passions. Seminar is a pre-requisite for **AP Research**, the AP Capstone program, and a great fit for students who want to be prepared for college.

8206 AP Research

Elective: 11-12
Full Year – 1 Credit

AP Research is the final class of the AP Capstone Course and students can register for this class if they have completed AP Seminar. AP Research is for students that want to deeply explore an academic topic, problem, or issue of individual interest. During the school year, students will define a research question and design, plan, and conduct a year-long, research-based investigation. In the AP Research course, students further their skills acquired in the AP Seminar course by understanding research methodology; employing ethical research practices; and accessing, analyzing, and synthesizing information as they address a research question. Throughout this exploration students will create a portfolio of their work that shows their skill development, data collection in the research process, and their final product. The course culminates in an academic paper of 4000–5000 words (accompanied by a performance or

exhibition of product where applicable) and a presentation with an oral defense. Successful completion of AP Research leads to the **AP Capstone** diploma.

Prerequisite: AP Seminar

SOCIAL STUDIES

The social studies department at HHS provides a variety of courses to broaden the base of students cultural and civic awareness. Some of the courses described are required for graduation while others provide elective opportunities. The required courses afford students several options; for acquiring credit – Applied (requires instructor approval); Regular (provides a general well-rounded approach to content); Make-up (selected enrollment and instructor approval). The elective courses offer students the opportunity to explore more fully specific content areas of the social sciences or gain an awareness of issues and concerns of a more current nature.

2100 World Cultures

Required: 9
Full Year – 1 Credit

World Cultures is an introductory course that examines the geographical, cultural, political/historical, as well as social development of major regions of the world. Various regions of the world will be discussed and examined in relationship to the cultural experience of the United States. The current status, problems and interrelationships of the world's regions will be analyzed. This dynamic course will be presented through varied approaches including group projects, audiovisuals and independent research. Assessment of students will be through a variety of methodologies including individual work, group activities, as well as tests. Woven throughout the course will be the reinforcement and integration of appropriate study skills.

2103 AP Human Geography

Elective*: 9
Full Year – 1 Credit

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 rigorous writing assignments. Only those who are able to perform at a higher academic level should enroll.

2300 American History

Required: 11
Full Year – 1 Credit

This required Junior level course is designed to provide an overview of America's history, heritage and evolving role in the world. Students will have the opportunity to prepare for their role as participatory members of a democracy. Course content is presented in a variety of thematic and/or chronological sequences. Students will have the opportunity to participate in a variety of activities including individual work, collaborative efforts, lecture, written and oral presentations as well as research. Assessment and evaluation will occur through a variety of techniques including written and oral tests, presentations and demonstrations.

2306 American History – Advanced Placement

Elective*: 11
Full Year – 1 Credit

The Advanced Placement United States History course is designed to challenge and stimulate the student's historical awareness. The course will provide the equivalent of a freshman level college course in United States History. Students will have the opportunity to: develop and hone critical thinking and writing skills through interpretation of primary source documents; critical and analytical reading of historical materials; interpretation and analysis of graphs, charts, political cartoons, etc. The course is also designed to prepare students to take the AP History exam in the spring. Requirements for acceptance to the program include: 1) Acceptable score on the CTBS and/or DAT 2) Grades of B or better previous social science and English courses 3) Recommendation of previous English teacher 4) Consent of the A.P. History instructor

Prerequisite: Instructor approval

2400 American Government

Required: 12
Full Year – 1 Credit

American Government acquaints senior level students with the American political system and includes such units of study as the Constitution, the structure of government, political parties, interest groups, civil right, and comparative political and economic systems. Through experiences ranging from individual activities and group projects to lectures, discussions, reading, multimedia presentations as well as research opportunities, students learn the why and how of active citizenship. Assessment will be achieved through a variety of written and/or oral techniques.

2406 American Government – Advanced Placement

Elective*: 12
Full Year – 1 Credit

The Advanced Placement U.S. Government & Politics course is equivalent to a freshman-level college course in political science. It is designed to give students both an informed and critical perspective on government and politics in the United States through analysis of American political structure and the process of political decision –making. Students are required to become familiar with the various institutions, groups, beliefs, and ideas that make up American political culture. The course is also designed to prepare students for the AP U.S. Government & Politics exam at the end of the year. Depending on the criteria of the individual university or college, students with scores of 3 or above on the exam may receive college credit for required political science courses. Admission to the course is based on acceptable PSAT verbal and written scores, grades of “B” or above in previous social studies and English courses, and the recommendation of the student’s U.S. History and/or English instructor.

Prerequisite: A.P. Instructor approval.

Social Studies Elective

2426 AP European History (Offered Odd Years)

Elective: 10 – 12
Full Year – 1 Credit

AP European History is a course designed to be the equivalent of a freshman college course in a high school setting. It is a year-long survey of European history from the Renaissance to the present. Solid reading and writing skills, along with a willingness to devote considerable time to homework and study, are necessary to succeed. Emphasis is placed on critical thinking skills, essay writing, interpretation of original documents and historiography.

Students will be required to apply the effort necessary to act as an historian and develop the ability to analyze historical evidence to determine its validity and relevance, identify point of view and the nature of bias, and recognize the necessity of objectivity and substantiation. The methodology of an historian involves skills that are highly transferable--the ability to formulate generalizations, interpret and use data and to analyze and weigh evidence from conflicting sources of information are applicable to many other academic and practical disciplines.

2430 Current/Social Issues

Elective: 10 – 12
Semester – .5 Credit

This course is designed to provide knowledge and understanding of social problems in the United States. Using a sociological prospective we exam inequities in topics such as economics, race, gender, incarceration, environmental, education and more. Topics are decided in class and can change every semester depending on the students' interest. Your voice and opinions will be important to the success of this class.

2440 World History (Offered Even Years)

Elective: 10 – 12
Full Year – 1 Credit

World History is a course designed to complement the required Social Study courses – by developing a wider understanding of the world and its history. This course is highly recommended for those students who plan to attend college but may be taken by serious students of all levels. The first semester will allow students to explore and analyze the major political, economic, social, and cultural themes and patterns we see from Prehistoric times through 1500 CE, while the second semester will focus on 1450 CE through contemporary times. Such themes and patterns include, but are not limited to, the spread of humans, the rise of complex civilizations, human exchanges, key human innovations, the rise of universal religions, key revolutions, and globalization. Students will be expected to participate in and complete class discussions, hands-on activities and projects, written assignments, and reading assignments that are meant to help students develop and refine their historical thinking skills.

2450 Psychology

Elective: 10 – 12
Semester – .5 Credit

This course will focus on scientific studies of human behavior and the applications of psychological research to everyday life. Topics will include learning principles, biological aspects of behavior, personality theory, mental health, therapy and interpersonal communication. Applied activities, lecture, experiments, films and speakers will make up the primary activities.

2456 AP Psychology (DC) **Dual Credit- Helena College (3 credits)**

Elective: 11 – 12
Full Year – 1 Credit

The Advanced Placement Psychology course is a one-year course designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and theories associated with each of the major subfields within psychology. Students also learn about the ethics and methods psychologists use in their science and practice. **The AP Psychology course is equivalent to a freshman-level college course in psychology.** The course is designed to prepare students for the AP Psychology Exam which will be taken at the end of the year. Depending on the criteria of the individual university or college, students with scores of 3 or above on the exam may receive college credit or exemption from the course. Students who select the dual credit option will, upon completion of the course with a C or better, receive credit for the Introduction to Psychology course at Helena College (PSYX100).

Prerequisite: None, however **students should be committed to the rigors of an AP course.**

2460 Montana History

Elective: 9 – 12
Semester – .5 Credit

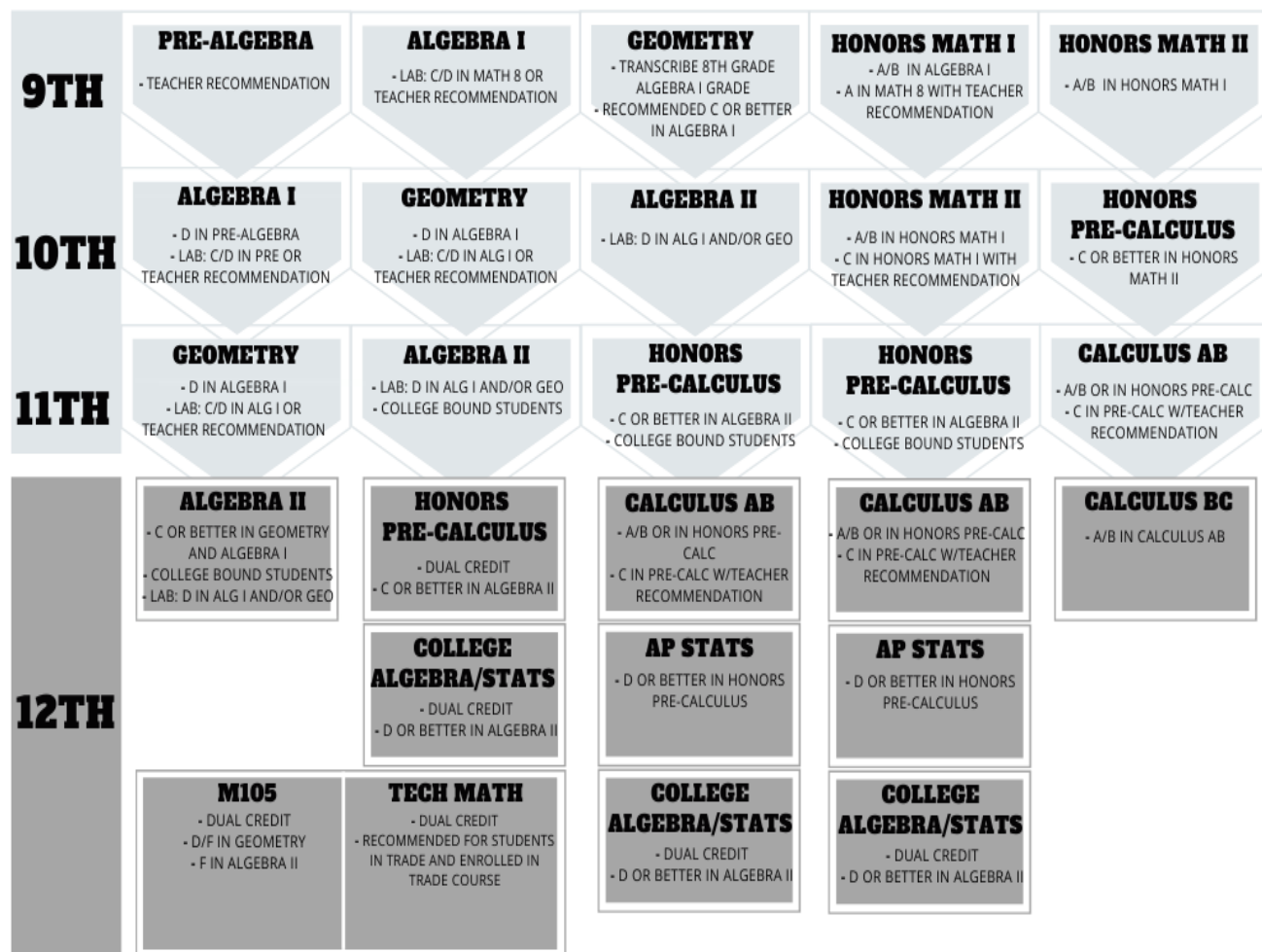
Montana History offers a diverse look at how Montana became the state it is today. Montana's history includes Native American study, the homesteading era, fur trading and gold mining, railroading, the boom-and-bust era, as well as many more. Hands on projects, speakers, topic research, films and possible tours bring an interesting perspective to this fun class.

MATHEMATICS

The State Board of Education requires that all students successfully complete three years of mathematics to graduate from high school. Students attending a Montana University need four years of math. All students should take three years of math, college bound students should plan on four years. At Helena High School placement in all mathematics courses is largely determined by successful completion of the prerequisite course(s) and the recommendation of the current math teacher.

One mathematics course must be taken during each of the first two years (9th and 10th grades). As you review the mathematics program, keep in mind that each course requires some degree of homework, and that mastery of every level of math skills is enhanced by the additional time spent on assignments. For those students who have difficulty in mastering math skills, the staff makes itself available for extra help and counseling on a regular basis. (Flow chart below.)

MATH COURSE PATHWAY



Algebra I is the traditional first year high school mathematics course. Algebra II is the minimum college entrance requirement for units of the Montana University System. Students entering science, technical and engineering fields in college should have four-years of high school mathematics.

Course Prerequisites for Mathematics

Math Course	Prerequisites
Pre-Algebra	Approval of Instructor
Algebra I	Freshman standing or successful completion of previous course
Honors Math I	Freshman standing with an A or B Algebra I or A in Math 8 th with teacher recommendation
Geometry	Successful completion of Algebra I Incoming Freshman must transcribe Algebra I grade and recommended as a C or better
Honors Math II	A or B in Honors Math I or C in Honors Math I with teacher approval
Algebra II	Successful completion of Geometry
Pre-Calculus	C or better in Algebra II
College Algebra Prep and Statistics	Passed Algebra II (Can take concurrently with Pre-Calculus)
AP Calculus AB	C or better in Honors Pre-Calculus
AP Statistics	D or better in Honors Pre-Calculus
AP Calculus BC (REPLACING CARROLL CALC)	A or B in Calculus AB
Contemporary Math (M105)	Seniors Only who have passed Algebra I or by teacher recommendation
Technical Math	Seniors Only who passed Algebra I or by teacher recommendation
Note: Students who receive an F in any math course should repeat the course. Students who fail second semester of a course should repeat both the first and second semesters.	



3103 Pre-Algebra

Elective*: 9
Full Year – 1 Credit

This is a remedial course for students who have not experienced success with middle school mathematics. The course prepares students for Algebra 1 and refines arithmetic skills. This course does not meet high school state standards. Students will be required to take Algebra 1 the following year.

3100 Algebra 1

Elective*: 9 – 10
Full Year – 1 Credit

This is the introductory high school course for students and emphasizes a strong development of the ideas of Algebra. This course prepares students for algebraic thinking and refines geometric, statistical and problem-solving skills. Students who successfully complete this course will go on to take Geometry.

3101 Mathematics 1 – Honors

Elective*: 9
Full Year – 1 Credit

This is an accelerated course and emphasizes a strong development of the ideas of Algebra and Geometry. This course prepares students for algebraic thinking and refines statistical and problem-solving skills. Students who successfully complete this course will go on to take Honors Mathematics 2.

3200 Geometry

Elective*: 9 – 11
Full Year – 1 Credit

This is the second of a three-year sequence for all students and emphasizes a strong development of the ideas of Geometry. The course prepares students for geometric thinking and refines geometric, statistical, and problem-solving skills. Students who successfully complete this course should take Algebra 2.

3201 Mathematics 2 – Honors

Elective*: 9 – 10
Full Year – 1 Credit

This is the second of a four-year sequence for honor students and emphasizes a strong development of the ideas of Geometry and Algebra 2. The course prepares students for geometric thinking and refines geometric, statistical, and problem-solving skills. Students who successfully complete this course should take Pre-Calculus.

3300 Algebra 2

Elective*: 10 – 12
Full Year – 1 Credit

This is the third of a three-year sequence for all students and emphasizes a strong development of the ideas of Algebra 2. This course prepares students for algebraic thinking and refines geometric, statistical and problem-solving skills. This course is required of students that will be attending college. Students entering college should take this course their junior year and take a fourth year of mathematics their senior year.

3301 Pre-Calculus (Honors)

Elective*: 10 – 12
Full Year – 1 Credit

This is the third class in the sequence for honors students and emphasizes a strong development of the ideas of Advanced Algebra, Trigonometry and Pre-Calculus. This course advances students algebraic, geometric, and trigonometric thinking. Students from Honors Mathematics 2 or Algebra 2 may take this class. Students who are successful with this class should take Calculus next.

Dual Credit – Helena College

College – 4 Credits

This is the fourth class in the sequence and emphasizes a strong development of the ideas of Advanced Algebra, Trigonometry and Pre-Calculus. This course advances students algebraic, geometric, and statistical thinking. Students from Honors Mathematics 2 or Algebra 2 may take this course. Students who successfully complete this class should take Calculus next. Students must score a 24 on the math portion of the ACT or pass the Accuplacer for the dual credit option.

3401 AP Calculus AB

Dual Credit – Helena College (4 credits per Year)

Elective*: 11 – 12
Full Year – 1 Credit

This is the fourth class in the honors sequence and is intended for college bound students seeking math intensive majors. Any student planning on taking engineering, physics, or strong science programs in college should take this course. Calculus students who are planning on majoring in a statistical based field may take Math for Liberal Arts Majors or Statistics at the same time they take this course. Students may enroll and earn credit from Helena College or have the opportunity to take the AP exam as another alternative for dual credit. Students must score a 27 on the math portion of the ACT or pass the Accuplacer.

3406 AP Calculus BC

Dual Credit -- Carroll College (4 Credit per Semester)

Elective*: 12
Full Year – 1 Credit

This fast-paced class is designed for college bound students who have successfully completed AP Calculus AB, and are seeking math intensive majors such as engineering, physics, or strong science programs. Students further their study of differential and integral Calculus by engaging in real world applications analyzing graphically, numerically and verbally. As students explore change, limits and analyze functions they will use definitions and theorems to build arguments and justify conclusions. Students may enroll and earn credit from Helena College for AB Calculus as long as they did not earn the credit while taking AB Calculus. All students also have the opportunity to take the AP BC Calculus exam to earn college credit. Students must score a 27 on the math section of the ACT, a 610 on the math section of the SAT, or pass the Accuplacer at Helena College to enroll for dual credit.

3440 College Algebra (1st Semester)**Elective*: 11 – 12****Dual Credit- Helena College (3 credits per Semester)****Semester – .5 Credit**

This course is designed for juniors and seniors who would like to improve their college algebra skills and 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 to an Algebra 3 level. Students seeking an advanced preparation in mathematics may take this course at the same time as Calculus. Students must score a 22 on the math portion of the ACT or pass the Accuplacer for the dual credit option.

Prerequisite: Algebra 2 or higher

3441 Statistics (2nd Semester)**Elective*: 11 – 12****Dual Credit – Helena College (3 Credits per Semester)****Semester – .5 Credit**

This course is designed for juniors and seniors who would like a strong introduction to statistics in preparation for college. The course will focus on applications of mathematic and statistical modeling. Students are expected to have a TI-83 calculator for this course, which is technology based. Students seeking an advanced preparation in mathematics may take this course at the same time as Pre-Calculus and Calculus. Students must score a 22 on the ACT or pass the Accuplacer.

Prerequisite: Algebra 2 or above

3442 AP Statistics**Elective*: 11 – 12****Full Year – 1 Credit**

AP Statistics 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: Pre-Calculus or above

3356 Technical Math**Elective*: 12****Dual Credit – Helena College (3 Credits per Year)****Full Year – 1 Credit**

This course is designed for those interested in pursuing a technical or vocational career or degree after high school. Topics include fractions, decimals, ratios, proportions, formulas and word problems. Areas studies are metric and American measurement systems, linear equations, developing applied skills in practical geometry, solid figures, and basic trigonometry. Students may enroll and earn credit from UM-Helena College of Technology.

Prerequisite: “C” or higher in Algebra 1 or above
Juniors and Seniors only

3302 M105 – Contemporary Math**Elective*: 12****Dual Credit – Helena College (3 Credit per Semester)****Fall Semester – 1 Credit**

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.

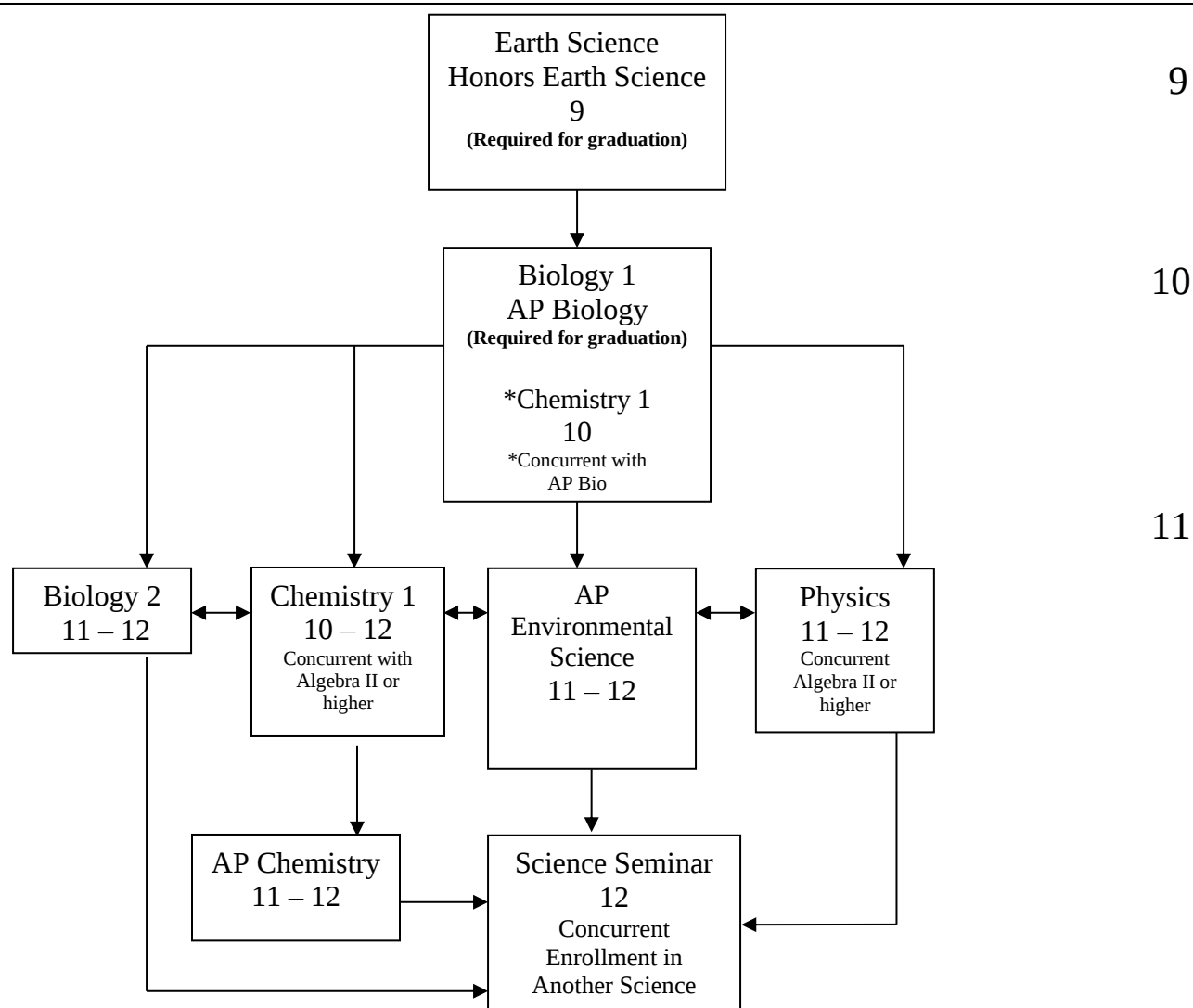
Pre-Requisite: Open to Juniors and Seniors who are successfully completed Algebra 1.

SCIENCE

Science is a method of understanding how nature works in earth, space, life and physical systems through the utilization of tools of inquiry and by employing the process skill of questioning, hypothesizing, predicting, testing and drawing conclusions. **Two years of science are required for graduation from Helena High School.** All students are encouraged to take more courses than the minimum requirement. The science flow chart, illustrated below, shows the wide range of available courses. Students are encouraged to seek the assistance of their parents, counselors, science teachers, and math teachers in planning the most effective science program to meet their needs. (Flow chart below.)

Helena High Science Department

Sequential Science Opportunities



Earth and Space Science

It is required that 9th grade students select one of the two options in the Earth and Space Sciences. Earth and Space Science, the study of the abiotic environment, is an essential part of a complete science education. The most challenging option is Honors Earth and Space Science. Freshman wishing to enroll in Honors Earth and Space Science should have a high interest in science and a minimum 3.00 GPA with B's or better in previous science and math courses. A higher level of commitment and effort is required of the honor student. Students not qualifying for Honors Earth and Space Science should enroll in Earth and Space Science. Both Earth and Space Science and Honors Earth and Space Science are designed as college preparatory courses.

4100 Earth and Space Science

**Required: 9
Full Year – 1 Credit**

Earth and Space Science will engage students in five branches including meteorology, hydrology, geology, oceanography and astronomy. In these areas of study, students will be posing questions; developing models; experimenting, analyzing and interpreting data; applying mathematics; solving problems; engaging in argument from evidence; and obtaining, evaluating and communicating information. Presentations, demonstrations, labs, Earth and Space Science related films and projects form the basis for instruction.

4101 Earth and Space Science – Honors

**Elective*: 9
Full Year – 1 Credit**

Honors Earth and Space Science is designed to challenge the advanced science student. The course will cover the four areas of Earth and Space Science with lectures, demonstrations, and general lab work. Students will also be exposed to more challenging assignments involving more rigorous math, additional reading, independent lab work, research projects, and technology. A higher level of commitment and effort is required of the honors student. Honors Earth and Space Science is recommended for freshman skilled in science, math, reading, and writing.

Prerequisite: Due to limited enrollment, selection is based on recommendation of current middle school science teacher, grades of "B" or better in Math, Science and English, completion of the application process and the consent of the honors instructor.

Biology

Biology is the study of living things and is an essential part of a complete science education. It is required that 10th grade students select one of two options for first year in Biology. The majority of the students will enroll in the standard Biology I. The most challenging class is AP Biology. This course has limited enrollment and students interested in enrolling should check the prerequisites in that course's description. Students with good attendance, behavior, and strong work habits will be considered first. Biology II is offered to those students who have successfully completed Biology I or AP Biology and have interest in pursuing a career in a science related field. All Biology courses meet the laboratory science requirement for graduation.

4200 Biology 1

**Required: 10
Full Year – 1 Credit**

Biology I is a survey course in the Life Sciences which will help the student to develop an understanding of living things and their relationship to one another. Areas of study include cells, heredity, microbes, plants, invertebrate animals, chordate animals, ecology, and biotechnology. Extensive laboratory work, dissections, demonstrations, lectures, tests, and projects are some of the approaches used to teach the major concepts and evaluate student performance.

4306 AP Biology

**Elective*: 10-12
Full Year – 1 Credit**

AP Biology is a course offered to 10-12 grade students and covers the requirement of 10th grade science. The AP Biology course covers topics typically found in a first-year college biology course and advances the student's understanding of concepts normally covered in high school biology. This is an intensive course with 150 objectives and 12 labs to be completed before the AP test date at the end of May. Students that take AP Biology will retain and apply content learned to develop advanced inquiry and reasoning skills, such as designing a plan for collecting data, analyzing

data, applying mathematical routines, and connecting concepts in and across domains. This course is also created to aid in preparation for the AP Biology exam.

Prerequisites- Completion of Algebra I and Honors Earth Science; Concurrent enrollment in Chemistry.

4300 Biology 2

Elective*: 11 – 12
Full Year – 1 Credit

This is an intense lab-oriented class providing in-depth experiences of a variety of biological fields. Units of study include advanced genetics; biotechnology theory and laboratory techniques; populations genetics; comparative anatomy to include animal dissections; animal and plant physiology; and ecological problems. Students interested in careers in the health allied fields; veterinary medicine, biology, genetics and science in general are encouraged to enroll in this college preparatory class. Student assessment in this class includes written tests and assignments; laboratory assignments, dissections, laboratory practical tests, formal laboratory write-ups; computer simulations; and projects. Because of the extensive lab work, this class requires excellent attendance and disciplined classroom behavior. Students will provide non-latex gloves for dissection and a \$5 lab fee.

Prerequisite: A grade of “C” or better in Biology 1 or AP Biology and approval of the student’s Biology I or AP Biology instructor.

Chemistry

4310 Chemistry 1

Elective*: 10 – 12
Full Year – 1 Credit

Chemistry is a survey course dealing with the composition, structure, properties, and energy changes of substances through laws that unite these phenomena into a comprehensive system. The concepts are developed in an exciting and intellectually challenging manner through extensive laboratory investigation. Emphasis will be placed on the importance of chemistry in everyday life and the interdisciplinary impact chemistry has on our scientific heritage. Student performance in this college preparatory course is evaluated on the basis of objective testing, laboratory performance, and project completion. A lab fee will be assessed to cover the purchase of individual safety goggles.

Prerequisite: Due to the importance of the development of analytical skills, concurrent enrollment in or completion of Algebra 2 or Pre-Calculus is required.

4420 AP Chemistry

Elective*: 11 – 12
Full Year – 1 Credit

AP Chemistry is an elective science course that will be offered to 11-12 grade students. It is designed to be taken after the completion of Chemistry 1 and upon successful completion of Algebra 2. 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 are expected to take the AP Chemistry Exam in 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.

Prerequisites: Chemistry 1 and completion of Algebra 2.

4501 AP Environmental Science

Elective: 11 – 12
Full Year – 1 Credit

AP Environmental Science is designed for students seeking a challenging college level science course at the high school level. Prerequisites include obtaining a grade of C or better in Earth Science, Biology and Algebra I. The goal of this course is for students to understand, through investigations, the interrelationships in the natural world. Topics covered include Earth systems and resources, the living world, populations, land and water use, energy resources and consumption, pollution and global change.

This course is recommended for students pursuing careers in natural resources and those who have an interest in the relationships between humans and the natural world.

Physics

4400 Physics

Elective*: 11 – 12
Full Year – 1 Credit

Physics is the study of the relationships of matter and energy. Laboratory experiences are used to teach such topics as motion, heat, sound, wave mechanics, light, magnetism, and electricity. In addition to lab work, discussions, demonstrations and creative projects will be part of the course. Recommended for college bound students who plan to major in science or a science related field.

Prerequisite: Successful completion or concurrent enrollment in Algebra 2 or Pre-Calculus.

Science Seminar

4421 Science Seminar

Elective: 12
Full Year – 1 Credit

This enrichment course is an opportunity for integral study of the various disciplines of science and provides an opportunity for discussion of investigations into the social implications of science. It draws upon major concepts learned in previous courses to form an integrated understanding of the world and nature. No specific text is used but extensive reading is required. The seminar approach is utilized, and emphasis is placed on current trends and developments in science and technology as they relate to 1) major concepts and principals; 2) social implications; and 3) careers in science. Guest speakers, outside reading, lectures, fieldwork and on-site visitations supplement classroom instruction. Science Seminar is recommended for college bound seniors who plan to major in science or science related fields.

Prerequisites: Students enrolling in Science Seminar must be a senior. It is required that students take three years of science prior to successful enrollment in seminar. Acceptable courses include Earth Science, Honors Earth Science, Biology 1, Honors Biology 1, Biology 2, Chemistry 1, Chemistry 2, CSI Forensic Science, and/or Physics. In addition to enrollment in Science Seminar, students **must** have concurrent enrollment in at least one additional science course. Exceptions will be made for students who have successfully completed all other science courses at Helena High.

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 elective credit.

7610 Principles of Biomedical Science (BioMed 1)

Elective: 9 – 10
Full Year – 1 Credit

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

7620 Human Body Systems (BioMed 2)

Elective: 10 – 11
Full Year – 1 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.

Suggested prerequisite: 7610 Principles of Biomedical Sciences or Biomed teacher approval.

7630 Medical Interventions (BioMed 3)

Elective: 11 – 12
Full Year – 1 Credit

Students investigate the 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. Through these scenarios, students are exposed to the wide range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics. Lifestyle choices and preventive measures are emphasized throughout the course as well as the important roles scientific thinking and engineering design play in the development of interventions of the future.

Suggested prerequisite: 7620 Human Body Systems or Biomed teacher approval.

7640 Biomedical Innovations (BioMed 4)

Elective: 12
Full Year – 1 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: Either 7630-Medical Interventions or three science classes (or concurrently enrolled in the 3rd science class).

Suggested prerequisite: 7630 Medical Interventions or teacher approval.

FOREIGN LANGUAGES

Even in Montana, it is becoming more and more common to meet someone who speaks a language other than English. As the world seems to grow smaller because modern technology makes it easier to travel and communicate, commerce and information exchange require knowledge of a second language or even a third or fourth! The Department of Modern and Classical Languages offers classes in French, Spanish, German and Latin. Along with integrated classroom materials, students also have access to the latest in supplementary software material and video programs. All modern language classes prepare students to understand the spoken and written language, as well as to communicate in both oral and written forms; to appreciate the customs, manners and philosophies of other cultures and to develop a tolerant attitude of other cultures and lifestyles. The modern language classes stress language as communication and, in the first year, using the foreign language for everyday communication. Latin, the classical language, stresses English vocabulary building and grammar as they apply to English, translation and the study of the Roman culture. Students may choose any of the four languages to study. Deciding which language to study is a matter of personal affinity. Future plans for using the second language should also be considered. Second language study has been shown to improve understanding of English and to increase native language vocabulary. Latin is the “mother” of English, French and Spanish and a good background for any language study. Spanish and French are used for communication in various parts of the United States. Students interested in science, math and technology fields may want to take German. All languages have a rich cultural heritage of history, literature, art and music to discover.

Unique career opportunities await the student versed in a second language. People who know English and a second language are in demand for jobs in the United States, as well as in other countries.

Highlights for Foreign Language students include Mardi Gras-Carnival-Lupercalia-Fasching festivities in February or March when all language classes get together for a day of songs and other Mardi Gras traditions. Also, upper-level language students are afforded the opportunity to attend Foreign Language Day in Missoula at the University in March. The International Club also offers a fun and useful extension to the language classes.

5110 Latin 1

Elective: 9 – 12
Full Year – 1 Credit

Latin I is the first year of a two or three-year curriculum, depending on enrollment, in which students will learn to read and write the Latin language as they follow a typical Roman family living in Italy about a hundred years after the death of Julius Caesar. Students will not only learn how to read and write Latin, but they will also begin to learn Latin as a foreign language, as the basis of everyday communication that it was for more than 2,000 years. Students will learn to describe their classroom, the weather, food and drink, and even modern sports and games in the ancient tongue. Grammar and translation will be a major part of first year Latin and students will learn about parts of speech, practice proper pronunciation, and read in context.

Latin I students will also study the mythology of the Ancient World, both Greek and Roman. They will learn about the Trojan War, Hannibal and his elephants, Caesar and Cleopatra, and the city of Pompeii, destroyed by Vesuvius and lost for 1,500 years. Students will learn to recognize ancient art and artifacts as well, Greek and Roman, and how they became the foundation of European culture to this very day.

Prerequisite: None. As a language class, Latin builds upon itself. Students should be prepared to attend class on a regular basis and should be diligent about making up missed assignments. No foreign language experience is required but there will be a substantial amount of reading and writing involved. Please feel free to contact the Latin teacher should you have any questions.

5120 Latin 2

Elective: 10 – 12
Full Year – 1 Credit

Latin 2 continues to build on the strong foundation acquired in Latin 1, including the study of vocabulary, grammar, translation, reading comprehension, and classical history and culture. Latin 2 students will spend more time learning to read and discuss texts in Latin and continue to practice Latin as a spoken language and a vehicle of communication. Students will learn about the Roman Empire at its height including gladiatorial games, chariot racing, monumental architecture and inscriptions, the emperors and their legions. *Ecce Romani* is still the main textbook, but students will

have more supplementary material, both traditional texts and online assignments, than they did in Latin 1.

Prerequisite: Passing grade of 'C' or better in Latin 1, or prior approval by the instructor is required. While it is not required that students take two years in a row, it is very helpful to do so, and is strongly recommended. Please feel free to contact the Latin teacher should you have any questions.

5130 Latin 3

Elective: 11 – 12
Full Year – 1 Credit

Latin 3 will continue to build upon the strong foundations established in previous years, including vocabulary, grammar, culture, reading comprehension and expressive communication. Students in Latin 3 will move beyond the textbook and into a series of graduated readings about the ancient Roman empire and about the Middle Ages as well, both books and online. The final goal for students at the end of Latin 3 is to be able to read original Latin texts, such as Caesar, Horace, and Vergil, with some degree of comprehension, and express their understanding to one another, in both English and in Latin. Completion of Latin 3 should prepare students to enter a second-year college Latin course, should they choose to do so, and will give students considerable advantage in the study of an additional other foreign language.

Prerequisite: Passing grade of 'C' or better in Latin 2, or prior approval by the Latin instructor. Students should be prepared for extensive reading and writing in a foreign language, and the daily discipline it involves. While it is not required that students take Latin in consecutive years, it is very helpful to do so, and is strongly recommended, however, course availability is dependent upon enrollment. Please feel free to contact the Latin teacher should you have any questions.

5210 French 1

Elective: 9 – 12
Full Year – 1 Credit

The first-year French student becomes acquainted with the French world, its cultures and ways of life. Students build a basic vocabulary and grammar that provides the framework for all class activities. These activities develop the skills of reading and listening comprehension and spoken and written communication. Students are evaluated through oral and written tests, daily assignments, and class participation. This course is a year-long course.

Prerequisite: None. If any questions, please contact the French teacher or your counselor for assistance. This is an academic class. Students must be prepared to complete daily homework assignments and be able to pass comprehensive tests.

5220 French 2

Elective: 10 – 12
Full Year – 1 Credit

French 2 refines the skills acquired at Level 1 and further develops the student's vocabulary and knowledge of French language structure. The class enhances student awareness of French as a means of communication, as it relates to future jobs, and as a leisure activity. Students are expected to try to communicate in French much of the time. The emphasis is on developing communication skills, both oral and written. Listening and reading comprehension skills are sharpened in the process. The course includes study of geography, history, French customs, and lifestyles.

Prerequisite: Passing grade of "D" or better in French I or approval of instructor.

5230 French 3

Elective: 11 – 12
Full Year – 1 Credit

French 3 increases the student's language proficiency, particularly in the areas of listening comprehension and written communication. Students are expected to demonstrate their ability to communicate in French. Through the study of French literature, students gain another rich perspective on French culture.

Students are evaluated through oral and written tests, daily assignments, and class participation. This course is a yearlong course.

Prerequisite: Passing grade of "D" or better in French 2 or approval of instructor.

5240 French 4

Elective: 12
Full Year – 1 Credit

French 4 advances the student's language proficiency. Conversational fluency and listening comprehension are emphasized as students use French in a more varied and complex situations. Students communicate in French most of the time. French literature, and contemporary culture are the core areas of curriculum emphasis. Students are evaluated through oral and written tests, daily assignments, and class participation. This course is a year-long course.

Prerequisite: Passing grade of "D" or better in French 3 or approval of instructor.

5250 French 5

Elective: 12
Full Year – 1 Credit

Students will review and extend their knowledge of conversation and grammar through their study of literature and history. This course is a yearlong course.

Prerequisite: Approval of instructor and strong desire for fluency.

5310 Spanish 1

Elective: 9 – 12
Full Year – 1 Credit

The beginning Spanish course introduces and familiarizes the student with the world of the Spanish language via listening, speaking, reading, and writing. Spanish 1 emphasizes vocabulary, basic grammar, idiomatic expressions in the language, and proper intonation and accentuation. Students are taught to note and appreciate cultural differences between the Hispanic world and the U.S. Students are evaluated on tests, daily assignments, dictation, and oral and written quizzes. This course is a yearlong course.

Prerequisite: None. If any questions, contact the Spanish teacher or your counselor for assistance. This is an academic class. Students must be prepared to complete daily homework assignments and be able to pass comprehension tests.

5320 Spanish 2

Elective: 9 – 12
Full Year – 1 Credit

Spanish 2 concentrates on the skills acquired at Level 1 with more emphasis on listening comprehension and speaking. Students are expected to speak Spanish as much of the time as possible when in class. Students concentrate on Spanish customs and lifestyles and also study the geography of Spanish-speaking countries. Students are evaluated by the use of oral and written tests and quizzes, daily assignments and class participation. This course is a yearlong course.

Prerequisite: Passing grade of "D" or better in Spanish 1 or approval of instructor.

5330 Spanish 3

Elective: 10 – 12
Full Year – 1 Credit

This course concentrates on the expansion of Spanish 2 and the student's growing ability to communicate in both oral and a written manner. Students are expected to speak Spanish during the class period. This level progresses into the study of the remaining verb tenses and modes, the expansion of vocabulary, the development of improved communication skills and the introduction of several different types of Spanish literature. Evaluation is based on daily assignments, oral and written tests and quizzes, essays and oral presentations. This course is a yearlong course.

Prerequisite: Passing grade of "D" or better in Spanish 2 or approval of instructor.

5340 Spanish 4

Elective: 11 – 12
Full Year – 1 Credit

This course provides the opportunity for each student to gain higher competence and confidence in listening, speaking, reading, and writing in Spanish. Continual review of vocabulary, verb tenses, and other structures is made through the various readings and discussions of short stories, poems and plays. All activities at this level help the student to practice active usage of the language. Evaluation is based on oral and written quizzes, essays, and daily assignments. Students are expected to speak Spanish exclusively during the class period. This course is a year-long course.

Prerequisite: Passing grade of "D" or better in Spanish 3 or approval of instructor.

5350 Spanish 5

Elective: 12

Full Year – 1 Credit

In addition to general review of much of the Spanish you have already studied, you also need to learn the necessary vocabulary and grammar in order to discuss a variety of topics. Spanish 5 is designed to build upon the language skills acquired in introductory language courses and to give students a cultural overview of the Spanish-speaking world. The emphasis in this class will be on improving your communicative oral competency. The goal is to make you speak as much Spanish as possible in order to gain confidence in your ability to speak the language. This class is conducted primarily in Spanish.

Prerequisite: Approval of instructor and strong desire for fluency.

5356 AP Spanish 5

Elective: 12

Full Year – 1 Credit

In Spanish 5 AP Language students continue to refine and enhance communication skills--reading, writing, speaking and listening-- as well as broaden their understanding of Spanish language and Hispanic culture. The 6 units of the course coincide with the 6 themes from the AP test. Students are preparing for college level courses and students take the Advanced Placement Spanish Language Examination in May and, depending on their scores, may receive college credit. In the class we converse only in Spanish as they would in a university level class.

5410 German 1

Elective: 9 – 12

Full Year – 1 Credit

German 1 introduces the student with the world of the German language via listening, speaking, reading, and writing. German 1 emphasizes vocabulary, basic grammar, idiomatic expressions in the language, and proper pronunciation. Students learn German culture through video and texts and identify differences between the German-speaking world and the U.S. Students are evaluated through daily assignments, oral and written quizzes, dictation, and tests. This course is a yearlong course.

Prerequisite: None. If any questions, contact the German teacher for assistance. This is an academic class. Students must be prepared to complete daily homework assignments and be able to pass comprehensive tests.

5420 German 2

Elective: 10 – 12

Full Year – 1 Credit

In German 2, students continue to build vocabulary and grammar through listening, speaking, reading and writing. German culture is explored and compared to students' own culture through projects, video and German texts. Students are evaluated through daily assignments, oral and written quizzes, dictation, tests and projects. This course is a year-long course.

Prerequisite: Passing grade of D or better in German 1 or approval of instructor.

5430 German 3 & 4

Elective: 11 – 12

Full Year – 1 Credit

German 3 and 4 are taught as a combined class. The course concentrates on speaking, listening, reading and writing. Although the 3rd and 4th levels may use the same material, assessment of each student's work is done individually. German 3 and 4 students expand their growing ability to communicate in both orally and in writing. Students are expected to speak German during the class period. This level deepens students' understanding of German grammar and broadens their vocabulary and communication skills. German 4 students may opt for an Independent Study and are encouraged to prepare themselves for the AP German Exam in May. Evaluation is based on daily assignments, oral and written tests and quizzes, essays and oral presentations. This course is a yearlong course.

Prerequisite: Passing grade of "D" or better in German 3 or approval of instructor.

FINE ARTS

One fine arts credit is required for graduation in the Helena School district. However, students may take multiple art classes every year and apply the credits toward the seven elective credits required for graduation. Upon completion of the foundations course, Art I, serious students can explore advanced art courses with the opportunity to receive college credit in AP classes.

The atmosphere of a class in the Art Department is different from any other class in school. There is a relaxed feeling as students quietly and enthusiastically work at their own projects: ceramics, stained glass, printmaking, batik, photography, drawing, painting, and sculpting. The studio atmosphere offers a break from the traditional classroom. Students are encouraged to connect to the larger world through the creation of original works that express their unique experiences. Lectures and demonstrations bring the class together on some days, and guest artists, art exhibitions, fieldtrips, audiovisual shows, and collaborative projects offer students extended learning experiences.

With so many different kinds and levels of classes offered, the Art Department invites all students to take at least one course and try their hand at a creative experience!

6110 Art 1 – Foundation of Art

Elective: 9 – 12
Full Year – 1 Credit

This course is designed to provide an opportunity for students to increase their skills in both the understanding and creating of art. Emphasis is placed on individual imagination, development of artistic skills, production of artistic works, and the ability to make and justify judgments about the aesthetic merit and quality of art. Students will be introduced to such art areas as drawing, color, design, painting, printmaking and sculpture. Students will be evaluated on their ability to generate, develop, present and critique ideas through work produced in and out of class.

6120 Art 2 – Explorations in Art

Elective 10 – 12
Full Year – 1 Credit

This course is an in-depth continuation of the basic art course with a wider choice of subject matter in the areas of drawing, design, painting, sculpture, and printmaking. Through demonstrations, lectures, and examples, students expand their abilities and understanding of art. Evaluations are based upon the artwork produced, maintenance of a sketchbook, and occasional tests on artists and styles of art.

Prerequisite: Foundations of Art 1 or instructor approval.

6130 Art 3 – Studio in Context

Elective: 11 – 12
Full Year – 1 Credit

Projects created in Art 3 encourage students' individuality and inventiveness as they utilize media, styles and content from an array of periods and culture throughout time in their own work. Emphasis is placed on creativity, skill development, exploration of media and techniques, expression and professional presentation. Evaluations will be based on participation, explorations, studio skill, creativity and engagement in art making mediums.

Prerequisite: Successful completion of two art courses and instructor approval.

6140 Art 4 – Independent Studio

Elective: 12
Full Year – 1 Credit

This advanced course is designed for students who have an extensive art background. The focus of the class is college preparatory with special emphasis on portfolio development, career exploration and art production in a studio atmosphere. Students have an AP option within the class. Evaluations are based on individual creativity, skill demonstration, critique participation and professional presentation.

Prerequisite: Successful completion of three (3) art courses and instructor approval.

6150 Visual Arts Design 1

Elective: 10 – 12
Full Year – 1 Credit

Elements and principles of visual design are applied to 2 and 3-dimensional media such as paper, fiber arts, stained glass, glass fusing, copper jewelry/enameling, and batik. Evaluations will be based on participation, exploration, studio skill, creativity and engagement in art making mediums. Students are required to purchase some materials.

Prerequisite: Successful completion of Art 1 and instructor approval

6160 Visual Arts Design 2

Elective: 10 – 12
Full Year – 1 Credit

This design course is an in-depth continuation of Visual Design Studio 1. Students are required to complete extensive and elaborate designs and gain a deeper knowledge of skills, media and techniques. Students work in a studio atmosphere with individual instruction. Evaluations will be based on participation, exploration, studio skill, creativity and engagement in art making mediums. Students are required to purchase some materials.

Prerequisite: Successful completion of Art I, Visual Design Studio 1 and instructor approval.

6210 Ceramics 1

Elective: 10 – 12
Full Year – 1 Credit

Students develop basic skills on the potter's wheel and learn hand-building techniques. Making clay, clay construction, decorating, making glaze, kiln stacking, and firing are class learning experiences. Design and originality are emphasized. Lectures and demonstrations are provided with time for individual work and instructor assistance. Students are evaluated on individual projects and skills. Design, craftsmanship, and knowledge of the craft are emphasized. Art 1 is helpful, but not required.

6220 Ceramics 2

Elective: 11 – 12
Full Year – 1 Credit

Ceramics 2 allows students to continue to explore both intermediate wheel throwing and hand building. Projects are larger and more difficult than entry level ceramics but allow for more freedom of choice. Ceramics 2 also provides authentic education in the logistics of maintaining a functioning ceramics studio such as glaze production and kiln loading. Evaluation is based on engagement in the ceramic media, creativity, studio skills and participation.

Prerequisite: Ceramics 1 and instructor approval.

6230 Ceramics 3

Elective: 11 – 12
Full Year – 1 Credit

This advanced ceramics class provides an opportunity for upper-level students to fully explore the ceramic medium with the goal of developing a personal style. Students have full freedom to choose their area of emphasis, either functional thrown pottery or sculptural hand building. Ceramics 3 students are expected to be highly self-motivated, driven, and fully engaged in the creation of ceramic art as well as assisting in the day-to-day logistics of running a ceramic studio. Evaluation is based on engagement in the ceramic media, creativity, studio skills and participation.

Prerequisite: Successful completion of Ceramics 2 and instructor approval.

6250 Photography 1

Elective: 10 – 12
Semester – .5 Credit

In this introductory photography course, students learn the fundamentals of digital camera technique, lighting, color, and composition. Students will use software such as Adobe Photoshop and Lightroom as a tool for photographic improvement as well as personal expression. Students explore a variety of subjects to develop expressive content and learn to communicate more eloquently through visual language. Evaluations are based on class participation, projects, critiques, written work and tests. A digital camera, and successful completion of Art 1 or instructor approval are needed for enrollment in this class.

Prerequisite: Instructor approval, a digital camera, and successful completion of Art I are needed for enrollment in this class.

6260 Photography 2

Elective: 10 – 12
Semester – .5 Credit

This class is an exploration of intermediate photography using both digital and film cameras. Students work with film and light-sensitive materials and learn to print in the darkroom. Students develop greater skills using digital development techniques as well as learning to make refined prints in the darkroom. Students continue to practice design principles and visual communication while considering photographic history, including a variety of photographic styles. Evaluations are based on class participation, projects, critiques, written work and tests. Instructor approval, a digital camera, and successful completion of both Photo 1 and Art 1 are needed for enrollment in this class.

Prerequisite: Successful completion of both Art 1 and Photography 1, a digital camera, and permission of instructor.

6270 Photography 3

Elective: 10 – 12
Full Year – 1 Credit

Photography 3 introduces students to digital art media and the creative and conceptual foundations of still photography and moving images. Students develop skills for creating composite photographs, motion graphics, stop motion, sound design, and video production using Lightroom, Photoshop, iMovie, and other programs. Students build digital portfolios and design their own web sites, while learning about careers in media arts. Evaluations are based on class participation, projects, critiques, and written work. Instructor approval, a digital camera, and successful completion of both Photo 1 and 2 and Art 1 are needed for enrollment in this class.

Prerequisite: Photo 1 and Photo 2 and instructor approval.

Music and Theater

If singing, acting, or playing an instrument is your thing, the music and theater program is for you! A variety of programs are offered in all three areas: singing, acting, and playing.

For those women who enjoy singing, Women's Choir is the place to start. Men begin in Philharmonic Choir. From there, women and men can audition for Philharmonic Choir, Starlighters, or Ambiance. Performances both in-and-outside the school are the focus of all choirs.

For those who enjoy acting, several levels of theater classes are offered from beginning to advanced.

For the instrumentalist, there are also a number of exciting, varied opportunities at Helena High. Symphonic Band, Jazz Band, Concert Orchestra and Chamber Orchestra offer a broad range of musical choices, experiences, and performing styles. Auditions are required for most performance groups.

Music and theater classes are all electives, but students are encouraged to get involved in some aspect of the arts by taking some course in the program, which prides itself on building confidence and performance skills and success.

6300 Freshman Band

Elective: 9 – 12
Full Year – 1 Credit

This course is a training program for Concert Band. Students participate in several concerts and perform in solo and ensemble presentations at the District Music Festival. Musical skills are developed including scales, intonation, and technique. A playing knowledge of all types of music is emphasized in group, ensemble, and solo rehearsals. Students are evaluated on playing ability, performance in group rehearsals, and required performances.

Prerequisite: 8th grade band.

6320 Concert Band

Elective: 10 – 12
Full Year – 1 Credit

The course is more advanced than Freshman Band and is considered a training course for Wind Symphony. Students participate in several concerts and perform in solo and ensemble presentations at the District Music Festival. More advanced musical skills are developed including scales, intonation, and technique. Standard and contemporary band literature is emphasized. Students are evaluated on playing ability, performance in group rehearsals, and required performances. Freshmen are not eligible for this class unless they have written approval from the Helena High School band instructor.

Prerequisite: Freshman Band

6370 Jazz Band

Elective: 10 – 12
Full Year – 1 Credit

The course focuses on the study of standard and contemporary jazz techniques and improvisation. In group rehearsals, students refine their musical skills such as intonation, jazz scales, and jazz interpretation. Jazz Band performs in several jazz and music festivals throughout the year. Evaluations are made of playing ability and attendance at rehearsals and at performances.

Prerequisite: Must be in Freshmen Band, Concert Band or Wind Symphony and audition (no exceptions); instructor approval.

6380 Symphonic Band

Elective: 10 – 12
Full Year – 1 Credit

The course includes participation in Marching Band first quarter with concert literature the rest of the year. Students refine their musical skills, such as scales, intonation, technique, and interpretation and participate in several concerts and at District and State Music Festivals. Standard and contemporary band literature is emphasized. Students are evaluated on playing ability, performance in group rehearsals, and required performances. Instrumentation will be limited to the following: 8-flute/piccolo, 2-oboes, 2-bassoons, 12-clarinets, 4-bass clarinets, 4-alto sax, 2-tenor sax, 1-bari sax, 9-trumpets, 6-F horns, 9-trombones, 2-euphonium/baritone, 6-tuba, 6-percussion. Students can become members of this band ONLY by audition or invitation of the director.

Prerequisite: Bengal Band and instructor approval.

6392 Percussion Ensemble

Elective: 9 – 12
Full Year – 1 Credit

Percussion Ensemble is a class designed to develop musical performance and technique on various percussion instruments, including but not limited to snare drum, drum set, timpani, marimba and other mallet instruments, drumline, and percussion instruments from other cultures. The students will study and apply percussion performance concepts to several different styles of music, from classical to marching to music of native origin. The class is open for beginning and advanced students. All 9-12 band percussionists are required to take Percussion Ensemble as their primary band ensemble. Non-percussionists interested in learning a secondary instrument may take this class in addition to their traditional band class. Students will perform as part of the Percussion Ensemble and Drum Line as well as section percussionists in Freshman Band, Concert Band, and/or Symphonic Band, depending on age and ability.

6410 Beginning/ Intermediate String Orchestra

Elective: 10 – 12
Full Year – 1 Credit

The Beginning/Intermediate String Orchestra is open to all Freshman through Seniors with or without previous orchestral experience. The Capital High Intermediate String 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: Freshman: Must audition and be approved by the director prior to acceptance in Intermediate String Orchestra. Sophomore – Senior: Previous orchestra experience, and/or a meeting with the director.

6420 Advanced (Auditioned) String Orchestra

Elective: 10 – 12
Full Year – 1 Credit

Advanced (Auditioned) String Orchestra is open to Sophomore's through Seniors' with at least 1 years' previous high school orchestra experience. Students meeting these qualifications must audition with Director in May of previous school year. Freshman will only be eligible for the class if they meet the following requirements:

- qualify for All-State Music Festival
- Participation in both Intermediate and Advanced Orchestra (extra elective)
- Director's approval.

Advanced (Auditioned) String Orchestra will perform at least a minimum of 4 concerts and District Music Festival in the spring. Advanced Orchestra will be playing very high levels of music; therefore, members will be expected to

practice daily. Also, it is highly recommended that members take private lessons. 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. Every student in Advanced (Auditioned) String Orchestra will be required to re-audition annually.

Prerequisite: One previous year high school orchestra and an audition with Director. Freshman must qualify for All-State, be enrolled in both Intermediate and Advanced Orchestra, and have Director's permission. Audition materials will be available at the end of February. Auditions will be held in the Capital High Auditorium in the end of May.

6391 Piano Class

**Elective: 9 – 12
Full Year – 1 Credit**

Class Piano is designed for students with little to no piano experience who have a desire to develop basic piano playing skills. Time in class will be spent both on and off the keyboards and will consist of training in basic music theory and piano skills. Students will be working individually and as a class to master the techniques of playing and to explore a variety of literature. Class piano provides a flexible learning environment which allows students to be self-paced in their practice and performance skills in order to meet course objectives.

6450 Wire Choir

**Elective: 10 – 12
Full Year – 1 Credit**

Wire Choir is designed for any and all players of string instruments (i.e. Violin/fiddle, viola, cello, bass, mandolin, guitar, banjo, etc.) Students will learn repertory selected from a multitude of "Alternative Styles" and sources. Students will be taught by 'rote' (note reading will 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.

Students must already be proficient at their instrument and will need permission from the instructor. Course is designed as an elective credit.

6510 Treble Choir

**Elective: 9 – 12
Full Year – 1 Credit**

Treble Choir is available for students of any grade or experience level. This class focuses on vocal production/technique, music literacy, and performance. Students will study and perform music from a variety of genres, styles, and languages. Treble Choir performs four concerts a year. In addition, this choir participates in the District Music Festival. All 9th grade treble singers who are interested in choir must begin in Treble Choir unless they have been admitted to Philharmonic Choir or Ambiance through an audition.

6511 Tenor-Bass Choir

**Elective: 9 – 12
Full Year – 1 Credit**

Tenor-Bass Choir is available for students of any grade or experience level. This class focuses on vocal production/technique, music literacy, and performance. Students will study and perform music from a variety of genres, styles, and languages. Tenor-Bass Choir performs four concerts a year. In addition, this choir participates in the District Music Festival. All 9th grade tenor and bass singers who are interested in choir must begin in Tenor-Bass Choir unless they have been admitted to Philharmonic Choir or Starlighters through an audition.

6540 Philharmonic Choir

**Elective: 9 – 12
Full Year – 1 Credit**

Philharmonic Choir is available to students of all grade levels and requires an audition in order to be accepted and enrolled in the class. This class focuses on vocal production/technique, music literacy, and performance. Students will study and perform music from a variety of genres, styles, and languages. Philharmonic performs four concerts a year. In addition, this choir participates in the District Music Festival. An audition is required for all students who wish to enroll in Philharmonic.

6550 Starlighters

**Elective: 11 – 12
Full Year – 1 Credit**

Starlighters is a mixed choir for students in grades 10-12 and requires an audition in order to be accepted and enrolled in this class. This class focuses on advanced vocal production/technique, music literacy, and performance. Students must

have strong sight-singing skills, advanced vocal technique, and a positive attitude. Students will study and perform music from a variety of genres, styles, and languages. Starlighters performs six concerts a year and participates in several community, regional, and national events when the opportunity arises. In addition, this choir participates in the District Music Festival. An audition is required for all students who wish to enroll in Starlighters.

6580 Ambiance

Elective: 9 – 12

Full Year – 1 Credit

Ambiance is a treble choir for students of all grade levels and requires an audition in order to be accepted and enrolled in this class. This class focuses on advanced vocal production/technique, music literacy, and performance. Students must have strong sight-singing skills, advanced vocal technique, and a positive attitude. Students will study and perform music from a variety of genres, styles, and languages. Ambiance performs six concerts a year and participates in several community, regional, and national events when the opportunity arises. In addition, this choir participates in the District Music Festival. An audition is required for all students who wish to enroll in Ambiance.

6700 Theater 1

Elective: 9 – 12

Dual Credit – Helena College (3 Credits per Year)

Full Year – 1 Credit

Beginning Theater course offers a student an introduction to all areas found in the legitimate theater. Students will study theatrical basics, mime, acting, make up, theater history, and technical theater. The emphasis is on hands-on learning, with an emphasis on performance and real-world theater production. Theater 1 students will be required to see Helena High Theater Productions throughout the year. The class has no prerequisite. Students are evaluated on class work, tests, scene work, and participation.

Theater 1 can be taken as a dual credit course for those students who are at least 16 years old. Students are responsible for the enrollment paperwork, tuition and fees. Helena College THTR 101.

6710 Theater 2

Elective: 10 – 12

Dual Credit – Helena College (3 Credits per Year)

Full Year – 1 Credit

Theater 2 expands on performing skills that were introduced in Theater 1. Students will work with acting technique, beginning directing technique, and if time permits, some script writing. In this class students will develop and maintain a resume, and a current repertoire of audition scenes. The emphasis of the class is on further developing self-awareness and projecting a character in all of the dimensions available to an actress/actor started in Theater 1. Students will be required to see all Helena High School theater performances. Students will inventory skills and work on basics of script writing and directing, laying a foundation for Theater 3 projects. The Theater 2 class will work with Theater 3 and 4 classes to produce showcase productions and plays outside of the class assigned by the instructor, dates will be set at the beginning of the school year. Students are graded on written work, scene work production, and participation.

Theater 2 can be taken as dual credit for those students who are at least 16 years old. Students are responsible for the enrollment paperwork, tuition and fees. Helena College THTR 120.

Prerequisite: Theater 2, signature of instructor. Students must purchase their own makeup kit for use in Theater 2.

6720 Theater 3

Elective: 11 – 12

Full Year – 1 Credit

Theater 3 is geared to students who show a high interest in the performing side of theater. Students in Theater 3 are those who have successfully completed Theater 2. Many of the Theater 3 students are contemplating theater as a possible career, or path of study at the University level. Class work includes scene work, improvisation, refining performing skills, advanced script writing, academic and practical study of theatrical genres and styles. Students will exit the class with two contrasting audition scenes, and a resume for college level auditions. Students will be helping to produce workshops and productions outside of class. Students are graded on written projects, scene work, directing work, and participation in class.

Prerequisite: Theater 2 and instructor signature. Students must purchase their own makeup kit for use in Theater 3.

6730 Technical Theater- Stagecraft

Elective: 9 – 12

Full Year – 1 Credit

Technical theater offers students interested in the “Back stage men and women in Black” area of theater production. Students will learn production techniques common to stage, film, television and related performance areas. The class offers instruction in the fundamentals of stage carpentry, production, lighting, sound and sets. The technical theater

class constructs, lights and produces all aspects of Helen High productions, and offers technical support to theatrical events in other schools and the community. Students will be required to have hearing protection, a nail apron and vision protection. Students will be graded on projects, class participation and tests and quizzes over area content. This class can be offered for Vo Ed Credit.

6731 Technical Theater- Production

**Elective 10 – 12
Full Year – 1 Credit**

Technical Theater – Technical Production is the advanced technical theater course and meets at this time in *conjunction with Technical theater - stagecraft. It requires the successful completion of Technical Theater – Stagecraft, and the signature of the instructor.* All students in Technical Production will be assigned technical duties for productions at Helena high and will be required to work hours outside of the normal class time applying and expanding knowledge from stagecraft. Portfolio, resume, and job completion are required for the student to get a grade in the class. Each assignment per semester can and most likely will change and will require the student to act as a member of the production team as assigned. Students will be required to be at performances and rehearsals out of class time and during weekends near the production. The course can be repeated for credit and will require the student to expand their knowledge in the areas chosen or assigned.

Prerequisite: Technical Theater 6730 and instructor signature.

CAREER AND TECHNICAL EDUCATION (CTE)

Not all students plan to go to a four-year college, but most jobs require some training after high school. The CTE department offers Montana Career Pathways which develop the skills and knowledge required for a specific career. Careers like Construction, Welding, Automotive, Drafting, Computer Programming, Graphic Design, Marketing, Hospitality Services, Entrepreneurship, and Business are covered under these pathways. At the high school level, students will gain the basic skills and knowledge related to a career choice. Counselors are ready to help students develop a four-year plan of study and placement after high school.

7141 Drafting Program

Fundamental Drafting (Year 1)

Elective: 9 – 12
Full Year – 1 Credit
(Dual Credit – 3 credits)

This course studies basic drafting skills. Students will complete drafting projects developing skills in Geometric Construction, Lettering, Three-View Projection and Dimensioning. Those desiring to develop basic drafting skills and who have any interest in engineering or architecture are encouraged to participate. This course is a prerequisite to all course offerings in the Drafting area. The class is lab oriented, individualized instruction, and self-paced. Personal initiative is required for success in this class. Course material may be reviewed on the school website, the drafting page.

Computer Aid Drafting (AutoCAD) (Year 2)

Elective: 10 – 12
Full Year – 1 Credit
(Dual Credit – 3 credits)

This course teaches students the basic Computer Aid CAD (AutoCAD) skills. Throughout this curriculum students will learn advanced drafting skills including Sections, Auxiliary View, and Working Drawings. This course is a prerequisite to 3D Printing & Mechanical Design and Architectural House Design. Those considering a career in Engineering or Architectural will develop advanced drafting skills that will enhance their college experience. The class is lab oriented, individualized instruction, and self-paced. Personal initiative is required for success in this class. Course material may be reviewed on the school website, the drafting page.

Prerequisite: Fundamental Drafting

3D Printing & Mechanical Design (Year 3 or 4)

Elective: 10 – 12
Full Year – 1 Credit
(Dual Credit – 3 credits)

This course teaches students basic and advanced 3D rendering/modeling within a Autodesk Inventor software. Students will learn the five stages of the design process. Reverse engineering varies projects and 3D print throughout the curriculum. Students will publish varies online models they have designed and learn to work collaboratively with other students from around the State of Montana, on collaborative projects. Those considering a career in Engineering will develop important skills that will enhance their college experience. The class is lab oriented, individualized instruction, and self-paced. Personal initiative is required for success in this class. Course material may be reviewed on the school website, the drafting page.

Prerequisite: Computer Aid Drafting (AutoCAD)

Architectural House Design (Year 3 or 4)

Elective: 12
Full Year – 1 Credit
(Dual Credit – 3 credits)

This course studies design techniques used in residential construction, while learning BIM (Building Information Modeling) Autodesk Revit Software. Students will develop a complete set of house plans using standards of planning and construction. Consideration will be given to floor plans, elevation, plot plans, wall sections, and cost of construction. Students considering a career in Architecture will benefit from this class. The class is lab oriented,

individualized instruction, and self-paced. Personal initiative is required for success in this class. Course material may be reviewed on the school website, the drafting page.

Prerequisite: Computer Aid Drafting (AutoCAD)

7100 Fundamental Woodworking and Design

Elective: 9 – 12

Full Year – 1 Credit

Through demonstrations, lectures and shop experience with wood-working tools, machines, and materials, students become experienced with basic aspects of shop safety, tool use, measuring, drafting plans, and other related materials/activities. Grades are based on craftsmanship, work habits, effort, assignments, tests, and attitude. Students' materials for the basic projects are provided. Students furnish their own materials for their final/personal project.

7170 Intermediate Carpentry and Cabinet Making

Elective: 10 – 12

Full Year – 2 Credits

Intermediate Carpentry & Cabinet Making is a 2-period class that prepares students for a career in construction and develops lifelong skills. Students will learn safety, terminology, construction math, hand and power tools used by carpenters, and an overall orientation to the construction trade. Skills will be introduced and reinforced through the design and construction of a model. Lectures and bookwork will cover all aspects of home construction from footings to finish. Upon completion of the model house, students will design and build cabinetry to include door and drawer construction. Demonstrations and safety tests will be given on each machine used. Grades are based upon craftsmanship, techniques, safety, and efficient use of time. Students furnish materials for final/personal projects.

Fundamental Woodworking or Equivalent recommended

7180 Advanced Carpentry and Cabinet Making

Elective: 11 – 12

Full Year – 2 Credits

Advanced Carpentry and Cabinet Making is a 2-period class that continues and refines the skills learned in the intermediate class to produce larger, more complex projects. Learning will be achieved through individual projects and independent working. Emphasis will be placed upon Finish Carpentry. Job opportunities and apprenticeships will be available to advanced students through jobsite visits and introductions to community business partnerships. Students furnish materials for personal projects.

Prerequisite: Intermediate Carpentry and Cabinet Making with a minimum "C" grade and instructor approval.

7205 Auto Tech 1

Elective: 10 – 12

Semester – .5 Credit

Automotive Technology I is a one-semester course. This is a good class for everyone to take; if you are going to drive a vehicle you should know something about it! And- it's a fun class. At the beginning of the semester students will learn shop safety procedures with a large emphasis on vehicle lifting. After a brief section on tools, we will move into vehicle systems. Students will learn in depth the operation and diagnosis of engine mechanical, fuel, ignition, cooling and lubrication systems. Towards the end of the semester students will learn basic vehicle maintenance including tire service. The method of instruction is a combination of lecture and demonstration, but I work hard to provide as many structured shop activities as possible to provide for a competency-based learning environment. This course is the first of a three-year automotive program. Sophomores are strongly encouraged to take this class so they will have the opportunity to complete all three automotive courses.

7206 Auto Tech 2

Elective: 11 – 12

Full Year – 1 Credit

Automotive Technology II is a one-period, year-long course that will instruct students in shop safety procedures, small engines, electrical systems, brakes, and drivetrain systems. Students will also learn workplace skills to help prepare them for an entry-level position or further training in the automotive industry. The method of instruction will be a combination of lecture and demonstration, to be followed by student practice to provide for a competency-based learning environment. This course is the second of a three-year automotive program.

Prerequisite: Auto Tech 1 with a minimum "C" grade and instructor approval.

7207 Auto Tech 3

Elective: 12
Full Year – 2 Credits

Automotive Technology III is a two-period year-long course that will instruct students in shop safety procedures, steering and suspension, careers, engine performance and HVAC systems as well as review what has been learned in previous classes. Students will learn workplace skills to help prepare them for an entry level position or further training in the automotive industry. The method of instruction will be a combination of lecture and demonstration, to be followed by student practice to provide for a competency-based learning environment. Students are allotted a large amount of time in the shop; they are to use this time efficiently to achieve various repairs and competencies, and a large portion of their grade will be based off flat rate. This course is the final course of a three-year automotive program and is open to Seniors only.

Prerequisite: Auto Tech 2 with a minimum “C” grade and instructor approval.

7230 Welding 1

Elective: 9 – 12
Full Year – 1 Credit

Are you looking for an exciting and fun class that could lead to employment? This one-hour per day class is designed to give you the fundamental knowledge of SMAW(Arc), OFW(Gas) welding, GMAW (MIG) welding, OFC cutting and Plasma cutting along with related subjects and hands on learning. Students will apply the concepts they learned for one project in the second semester. Students will be required to pay for the materials for their personal project. Students must supply their own protective clothing (coveralls, gloves, safety glasses, leather boots, tape measure, pliers and 3 ring binder). See your instructor for information about buying approved safety glasses at a reasonable cost.

7240 Welding 2

Dual Credit- Full Year (2 Credits per Year)

Elective: 10 – 12
Full Year – 2 Credits

Do you like designing and building your own projects using advanced types of welding equipment and technology? Welding II can give you these opportunities, along with the skills to enter the work force and obtain lifelong skills. In this advanced course students will develop skills in out-of-position welding of SMAW, GMAW and GTAW welding. Students will practice on weld coupons until they reach a high enough level of proficiency to consistently produce quality welds. Students will design and draft project plans, develop bill of materials for projects, welding project fabrication, recognize, recall, and recite welding symbols for blueprint reading along with related subjects. Students will have a chance to become American Welding Society certified in welding in the spring. The student will have to pay for the certification on their own. Students must pay for the materials for all personal projects while in class. Students must supply their own protective clothing (coveralls, gloves, safety glasses, leather boots, pliers, tape measure, and MIG pliers). See your instructor for information about buying approved safety glasses at a reasonable cost. This course can be used to earn dual credit with Helena College OR Missoula College for 2 credits. Students will need to check with the college they would like to attend in Montana to make sure the credit will transfer from Helena College or Missoula College to the college of their choice in Montana. Talk to your instructor for more information.

Prerequisite: Completion of Welding 1 with a minimum of “C” grade and written permission from instructor.

7250 Welding 3

Dual Credit- Full Year (2 Credits per Year)

Elective: 11 – 12
Full Year – 2 Credits

This is an advanced course that will further your welding knowledge. It is primarily a lab-based, project-oriented class designed for employment readiness. The class is designed to prepare the student for post-secondary education or employment. The focus of this course will be to strengthen and advance student welding and engineering skills as they apply to personal metal manufacturing projects, careers, and related industrial certifications. All costs of projects will be assumed by the student. Students will focus on the fabrication of advanced welding projects, strengthening plan and print reading skills, small business mass production project and training for AWS welding certifications with Helena College.

Students must supply their own protective clothing (coveralls, gloves, safety glasses, leather boots, pliers, tape measure and MIG pliers). See your instructor for information about buying approved safety glasses at a reasonable cost. ~~See~~

This course can be used to earn dual credit with Helena College OR Missoula College for 2 credits. Students will need to check with the college they would like to attend in Montana to make sure the credit will transfer from Helena College or Missoula College to the college of their choice in Montana. Talk to your instructor for more information.

Prerequisite: Completion of Welding 2 AND instructor’s written consent.

7258 Welding 4

Dual Credit-Full Year (2 Credits per Year) [OBJ]

This is an advanced course that will further your welding knowledge. It is a lab-based, project-oriented class designed for employment readiness. The class is designed to prepare the student for post-secondary education or employment. The focus of this course will be to strengthen and advance student welding and engineering skills as they apply to personal metal manufacturing projects, careers, and related industrial certifications. All costs of projects will be assumed by the student. Students will focus on writing skills and building a portfolio for employment or post-secondary education. Students will train for AWS welding certifications in conjunction with Helena College. Students must supply their own protective clothing (coveralls, gloves, safety glasses, leather boots, pliers, tape measure and MIG pliers). See your instructor for information about buying approved safety glasses at a reasonable cost. [OBJ]

This course can be used to earn dual credit with Helena College OR Missoula College for 2 credits. Students will need to check with the college they would like to attend in Montana to make sure the credit will transfer from Helena College or Missoula College to the college of their choice in Montana. Talk to your instructor for more information.

Prerequisite: Completion of Welding III AND instructor's written consent.

7251 Welding/Manufacturing Work Co-Op

Elective 11 – 12

Full Year – 1 Credit

Cooperative welding/manufacturing education is a program in which welding students who, through a cooperative arrangement between the school and employers, receive classroom instruction and related on-the-job training in a welding occupation. Students enrolled in Welding II classes are eligible to apply for Welding/Manufacturing Working Co-op Experience. Students accepted for this program will be released from school for one class period each day upon availability of employment and will work in a Helena-area business for at least minimum wage. School credit and grade reflect the number of hours worked and the quality of performance on the job. Students must maintain acceptable classroom grades to remain eligible for release time and credit. Students furnish transportation and must be 17 years old to participate.

Prerequisite: Completion of Welding 2 or Welding 3 with a minimum of "C" AND instructor's written consent

All items can be bought locally. American Welding and Gas and General Distributing give a student discount. Rock Hand, Power Townsend, Murdoch's, Lowe's, and Home Depot. If you have any questions or cannot afford an item, please contact Cindy Galbavy 324-2180 or cgalbavy@helenaschools.org

Welding Supplies for Welding Students

Gloves- they need to have welding gloves and look something like following picture.



Safety Glasses- that are Z87 approved. The first pair is for a student that doesn't wear glasses. The second pair is for students that wear glasses.



This pair fits over glasses.



You can also purchase if you want but I provide welding goggles: Shade 5 glasses

Pliers – They need one pair of following pliers. Please buy cheap pliers.



Boots – They need a pair of leather boots. You can purchase used ones at any thrift store. Here are examples of the boots.



Coveralls 100% cotton or old pair of jeans 100% cotton. Jeans cannot have any frays on them.

or

These coveralls are about \$45.00 or more at Murdoch's or an old pair of jeans (100% cotton) and this coat is a must and I believe they run around \$30.00 at American Welding & Gas and General Distributing.



Measuring Tape 25’-



Hat – an old hat that is cotton or you can buy a welding cap.



Welpers or MIG Pliers-



9351 Health Careers Explorations

Elective: 11 – 12

Full Year – 2 Credits

The Health Career Exploration Class is a two-hour class (1 credit per semester) designed to provide high school students with the opportunity to develop the skills and knowledge for health occupations. The class is two semesters and is offered as an elective class or for vocational credit 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 the classroom, laboratory, practicum, and job shadowing settings. After successful completion of this class the students will be eligible to obtain a Certified Nursing Assistant certification, and students will find options for employment or further education in health care professions.

Prerequisite: Passing grades in two (2) years of math and (2) years of science as well as successfully completing the application process available from the counseling department.

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 elective credit.

7610 Principles of Biomedical Science (Biomed 1)

Elective: 9 – 10

Full Year – 1 Credit

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

7620 Human Body Systems (Biomed 2)

Elective: 10 – 11

Full Year – 1 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.

Suggested prerequisite: 7610 Biomed 1 or Biomed teacher approval

7630 Medical Interventions (Biomed 3)

Elective: 11 – 12

Full Year – 1 Credit

Students investigate the 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. Through these scenarios, students are exposed to the wide range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics. Lifestyle choices and preventive measures are emphasized throughout the course as well as the important roles scientific thinking and engineering design play in the development of interventions of the future.

Suggested prerequisite: 7620 Biomed 2 or Biomed teacher approval

7640 Biomedical Innovations (BioMed 4)

**Elective: 12
Full Year – 1 Credit**

Students in Biomedical Innovations (Biomed 4) will be challenged with project-based learning by conducting independent research, designing an innovation, exploring environmental health, applying real-world experience for improving emergency medicine and completing an independent project in an area of interest. This course is designed to provide students time to immerse themselves in solving real-world problems. Students will present their work to the community at the end of the year. This course is designed for 12th grade students that want to further their knowledge in biomedicine and improve their research skills.

Suggested prerequisite: Either 7630-Medical Interventions or three science classes (or concurrently enrolled in the 3rd science class).

Business Information Technology, Marketing and Computer Science Education **Helena High School**

The ability to use computers to perform everyday tasks is one of the most important skills for the 21st Century. Business-related 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 Information Technology program at Helena High helps to prepare students by placing emphasis on the development of each student's ability and potential. Work ethics are 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.

Marketing Education is a process composed of activities designed to create exchanges that satisfy individual and organizational objectives. The Marketing Ed, Sports and Entertainment Management, Small Business Management and SBM II courses are designed around national standards for Marketing Management, Entrepreneurship, and Business Administration. All of these courses are designed to help deliver a good or 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.

Business and Marketing Education Course Offerings

Freshmen Year	Sophomore Year	Junior Year	Senior Year
7301 Basic Computer Skills	7301 Basic Computer Skills	7301 Basic Computer Skills	7301 Basic Computer Skills
7304 Tech Skills for Life	7304 Tech Skills for Life	7304 Tech Skills for Life	7304 Tech Skills for Life
	7310 Personal Finance	7310 Personal Finance	7310 Personal Finance
	7330 Career Planning	7330 Career Planning	7330 Career Planning
	7340 Law and Justice	7340 Law and Justice	7340 Law and Justice
	7350 Consumer Math	7350 Consumer Math	7350 Consumer Math
	7370 Accounting 1	7370 Accounting 1	7370 Accounting 1
7322 Basic Elmnt Graph Design	7320 Graphic Design 2	7320 Graphic Design 2	7320 Graphic Design 2
	7322 Basic Elmnt Graph Design	7322 Basic Elmnt Graph Design	7322 Basic Elmnt Graph Design
7360 MSO Word	7360 MSO Word	7360 MSO Word	7360 MSO Word
7361 MSO Excel	7361 MSO Excel	7361 MSO Excel	7361 MSO Excel
7400 Marketing I	7400 Marketing 1	7400 Marketing 1	7400 Marketing 1
	7412 Mktg 2 -Sports/Entertain	7412 Mktg 2-Sports/Entertain	7412 Mktg 2-Sports/Entertain
7480 Marketing Co-Op	7480 Marketing Co-Op	7480 Marketing Co-Op	7480 Marketing Co-Op
		8170 JMG	8170 JMG

7301 Basic Computer Skills

Elective: 9 – 12
Semester – .5 Credit

This course lays the foundation for students to successfully use computers and the Internet throughout their high school careers. The students will use Microsoft Word to create, write, and format personal documents such as letters, reports, and tables. The remainder of the semester will be spent utilizing the Cloud, including online safety, email and search skills.

7304 Technology Skills for Life

Elective: 9 – 12
Semester – .5 Credit

Students will enhance their skills in business applications through the use of digital technology. This course will expose students to Microsoft Excel & Access. Computer Skills 2 will incorporate projects such as programming using Python, beginning Robotics using Arduinos and networking. This course is designed for students who have basic computer skills.

Recommendation: Students should be able to key 25 words per minute. Otherwise, they may need to take course #7301 above.

7310 Personal Finance

Elective: 10* – 12
Full Year – 1 Credit

Personal Finance uses an experiential and simulation environment to provide students hands-on personal finance skills for life that includes investing, savings, credit management, career planning, college funding, retirement planning, employment related forms, employment benefits, filing taxes, time management, banking, check writing and account management, renting and home ownership, automobile financing, insurance and more.

7330 Career Planning

Elective: 10 – 12
Semester – .5 Credit

Career Planning is a semester class that will help students determine career possibilities and identify educational requirements for those careers, as well as guiding students through the job search, interview process and career development process.

7340 Law and Justice

Elective: 9 – 12
Semester – .5 Credit

This class provides a wide exposure to the legal rights and responsibilities of people in many circumstances, Law and 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. Guest speakers from Helena's legal community enhance the content of the class. Students will participate in a mock trial experience, putting court procedures into practice.

7350 Consumer Math

Elective: 10 – 12
Full Year – 1 Credit

Consumer Math will help students improve proficiency with basic math skills and apply basic math concepts to personal and business situations. Units will include Managing Your Money (checking accounts, comparing job offers, figuring pay checks and job benefits), Spending Wisely (budgeting, comparison shopping, unit pricing, and credit), Making Money Grow (savings, borrowing, and investing), Income Taxes (finding and filing your income taxes), World Travel (planning a trip, investigating travel costs) and Living On Your Own (renting, buying and owning a home). In successfully completing this course, students will demonstrate knowledge of math concepts and critical thinking skills that will help them be a smart shopper, an informed citizen, and a valued employee.

Prerequisites: Successful completion of high school mathematics course as a freshman CTE Credit

7370 Accounting 1 Dual Credit Helena College (3 Credits)

Elective: 10 – 12
Full Year – 1 Credit

Accounting is the language of the business world. Accounting will help students understand the financial activities of a business and will better prepare them to prepare business 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. Activities from both a service and merchandising business will be emphasized. Payroll deductions and related payroll taxes are also covered. Students will utilize the manual accounting method.

This class may be taken for UM-Helena college credit and Helena High credit.
Students wishing to pursue Accounting 2 can do so as an Independent Study, based on instructor approval.

7380 Business Co-Op Work Experience

Elective: 10 – 12
Full Year – 1 Credit

Cooperative business education is a program in which business students who, through a cooperative arrangement between the school and employers, students receive classroom instruction and related on-the-job training in a business occupation. Students accepted for this program will be released from school for one class period each day upon availability of employment and will work in a Helena-area business for at least minimum wage. School credit and grade reflect the number of hours worked and the quality of performance on the job. Students must maintain acceptable classroom grades in order to remain eligible for release time and credit. Students furnish transportation and must be 16 years old to participate. **Students in all business classes qualify.**

Prerequisite: Instructor approval and signature

Bengal Business - Computer Applications

Bengal Business – Computer Applications requires students to behave as would be required in a real-world situation. Students clock-in at the beginning of each period and their success is determined by completion of class modules, which are completed at their own pace.

7399 Basic Elements of Graphic Design

Elective: 10* – 12
Semester – .5 Credit
***10 with completion of 7304**

Adobe® Photoshop®, the benchmark for digital imaging excellence, provides professional image editing features enhanced by machine learning and cloud integration. Photoshop supports a wide range of workflows including print, web, and video. Photoshop gives you the digital editing tools you need to transform images more easily than ever. Lessons and Projects are used to reinforce the skills taught.

7399 Graphic Design 2

Elective: 10* – 12
Semester – .5 Credit
***10 with completion of 7304**

Adobe Illustrator has new and innovative features to help you produce artwork more efficiently for print, web, and digital video publication. Lessons and Projects are used to reinforce the skills taught. Students also learn how Photoshop and Illustrator work together to create authentic designs.

*Prerequisite: Basic Elements of Graphic Design

7399 Microsoft Office Word **Dual Credit-Helena College (3 credits per Semester)**

Elective: 10 – 12
Semester – .5 Credit

This course covers the skills needed to pass the Microsoft Word Specialist Exam. Students will learn how to: create and manage documents, insert and format text, paragraphs and sections, manage tables and lists, create and manage references, insert and format graphic elements, and manage document collaboration.

7399 Microsoft Office Excel **Dual Credit-Helena College (3 credits per Semester)**

Elective: 10 – 12
Semester – .5 Credit

Skills covered in this course are the skills needed to get the most out of Excel by earning the Microsoft Office Specialist: Excel Associate certification. This certification demonstrates competency in the fundamentals of creating and managing worksheets and workbooks, creating cells and ranges, creating tables, applying formulas and functions, and creating charts and objects.

8170 JMG – Jobs for MT Graduates

Elective: 11 – 12
Full Year – 1 Credit

JMG focuses on four programs of study: career exploration, civic duty, social skills and leadership development. Projects are identified and managed by students. Students have the opportunity to become members of the Montana Career Association, serve as chapter officers, attend the fall JMG leadership conference, and participate in the State Leadership conference in the spring. Career exploration, job shadowing, self-awareness, teamwork, healthy lifestyles, personal finance and career search and development are also topics addressed during the year.

Marketing Education

Marketing Education prepares students in the area of marketing, business and communications. Strategies of these classes will strengthen students' knowledge in entrepreneurship, management, product planning and development, advertising, and promotion.

The program primarily uses the "hands-on" approach to learning including actual product development and operation of the Helena High School store, the *Catty Shack*. Job Co-Op is another actual work experience option available to students enrolled in Marketing 1 or, Small Business Management. In addition, students are eligible to take advantage of DECA membership allowing for participation in community service projects, event planning, competition, and travel!

7400 Marketing 1

Elective: 9 – 12
Full Year – 1 Credit

Marketing 1 is intended for those who want to learn business operations and develop basic employment skills. If you want to continue your education in business administration, management, marketing, advertising, 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, business planning, advertising-including social and digital media marketing, sales, and customer service. This class also 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. Vocational or elective credit can be applied to this class.

*Must have taken 7304 1st Semester of Freshman Year

Prerequisite: Math grades must be C's or higher or instructor approval. 61

7411 Small Business Management Year 1/Catty Shack Elective: 10 – 12
Small Business Management Year 2/Catty Shack 1 Credit per Year
Dual Credit (3 Credits) – University of Iowa

Small Business Management 1 & 2 (SBM) is an advanced course in business ownership, management and marketing. You will study entrepreneurship topics covering merchandising and display, financing, advertising layout and design, and additional aspects of creating a business plan. This class primarily revolves around operating the Helena High School store, the Catty Shack. The Catty Shack 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 skills.

Vocational or elective credit can be applied to this class.

Prerequisite: Small Business 1 for Small Business 2

7412 Marketing 2 - Sports and Entertainment Marketing Elective: 10 – 12
Full Year – 1 Credit

Marketing 2 - Sports & Entertainment Marketing is a course designed to assist students to expand their understanding of marketing concepts and theories and apply to sports and entertainment marketing and management of events. The areas this course will include are basic marketing, target marketing and segmentation, sponsorship, event marketing, promotions, sponsorship proposals, and implementation of sports and entertainment marketing plans. This course will also delve into developing and implementing promotion plans and event evaluation and management techniques of scheduled athletic, theatre and music events held at Helena High School. 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.

Each student must successfully complete Marketing 1 prior to enrollment in this course.

Vocational or Elective Credit can be applied to this class.

Prerequisite: Marketing 1 (7400)

Computer Science

3461 Computer Science with Optional Elective: 9 – 12
Helena College Semester – .5 Credit
Dual Credits (3 – 10 credits)

Computer Science is for students with a desire to develop programming fundamentals. Java and Python will be used to create console and window applications, and a student can take up to eight semesters of computer science. Python will be taught the first semester. The next six will use Java and build upon the previous semester(s). The final two semesters are used for advance study through independent programming projects.

College Credit at Helena College 3 Semester Credits after 1st Semester
3 Semester Credits after 2nd Semester
4 Semester Credits after 3rd Semester

8244 Oracle Database Design and Programming Elective: 9 – 12
Full Year – 1 Credit

Oracle Database Design and Programming is a yearlong course, which provides secondary students with the knowledge and skills to design and develop relational databases. Students will learn data modeling and will use Structured Query Language (SQL) to retrieve and manipulate data in an Oracle database. Students will also refine their professional skills by learning about project management, visual presentations, and job interviewing. At the end of the course the students may take the Introduction to Oracle 10g – SQL Certification exam. There are no prerequisites for this class.

Cisco CCNAv7 Program

CCNAv7 teaches comprehensive networking concepts and skills, from network applications to the protocols and services provided to those applications. Learners will progress from basic networking to more complex enterprise and theoretical networking models later in the curriculum.

8241 Introduction to Networks (CISCO 1)

**Elective: 9 – 12
Full Year – 1 Credit**

Introduction to Networks (ITN) covers the architecture, structure, functions and components of the Internet and other computer networks. Students achieve a basic understanding of how networks operate and how to build simple local area networks (LAN), perform basic configurations for routers and switches, and implement Internet Protocol (IP).

8242 Switching, Routing, and Wireless Essentials (CISCO 2)

**Elective: 10 – 12
Full Year – 1 Credit**

Switching, Routing, and Wireless Essentials (SRWE) covers the architecture, components, and operations of routers and switches in small networks and introduces wireless local area networks (WLAN) and security concepts. Students learn how to configure and troubleshoot routers and switches for advanced functionality using security best practices and resolve common issues with protocols in both IPv4 and IPv6 networks.

Prerequisite: Introduction to Networks

8243 Enterprise Networking, Security, and Automation (CISCO 3)

**Elective: 10 – 12
Full Year – 1 Credit**

Enterprise Networking, Security, and Automation (ENSA) describes the architecture, components, operations, and security to scale for large, complex networks, including wide area network (WAN) technologies. The course emphasizes network security concepts and introduces network virtualization and automation. Students learn how to configure, troubleshoot, and secure enterprise network devices and understand how application programming interfaces (API) and configuration management tools enable network automation.

Prerequisites: Switching, Routing, and Wireless Essentials

Family and Consumer Science – Culinary Arts

CTE Industries / Pathway: Hospitality & Tourism

Dual Credit Option: Missoula College, Course 105 Safety and Sanitation

Certification Option: *ProStart* – National Restaurant Association

The Culinary Pathway includes a sequence of four courses leading to a career in the Hospitality and Tourism industry. Intro to Culinary Arts is open to 9-12 as a semester class for developing personal cooking and nutrition skills. Students in **Culinary I, II and III** utilize the National Restaurant Association curriculum *ProStart*. Culinary I and II develop the student's skills in culinary arts and expose the students to the world of professional cooking. Students have opportunities to work with industry partners in outside catering and events. Culinary III is the capstone experience for the culinary student, offering the opportunity for dual credit from Missoula College in Safety and Sanitation, externships with local chefs and state and national competitions.

Culinary I, II and III are 2-hour block classes for Juniors and Seniors who have successfully passed **Intro to Culinary** or can pass the class final exam with work experience knowledge. Application details are available from the counseling center.

7520 Intro to Culinary Arts and Nutrition

**Elective: 9 – 12
Semester – .5 Credit**

The first course of the series is **Intro to Culinary Arts** is open to all students, one semester. The course is designed to introduce basic nutrition and cooking skills for individual and family cooking. The course is based on a whole foods approach with an emphasis on sustainability, local, and fresh foods, safety and sanitation, nutrition basics, the relationship between disease and diet and food culture in American life.

7531 Culinary I

**Elective: 11 – 12
Semester – 1 Credit**

Culinary I is an exciting and innovative hospitality/culinary arts education designed specifically for students interested in a career in the food and hospitality industry. The course is based on the National Restaurant Association program, *ProStart*, which provides classroom training in all aspects of culinary careers including job seeking skills, management,

nutrition and food preparation skills. Two-hour block class, signature of instructor required with application. Application available in Rm 50 or Counseling Office.

Pre-requisite: Intro to Culinary Arts 7520 or signature of instructor with passing semester exam at 75% without class pre-requisite.

7541 Culinary II

Elective: 11 – 12
Semester – 1 Credit

Culinary II continues the study of a professional career in hospitality /culinary arts. Catering for the school events will be part of the culinary arts curriculum. Two-hour block class, signature of instructor required with application. Application available in Rm 50 or Counseling Office.

Pre-Requisite: Culinary I (7531)

7540 Culinary III

Elective: 11 – 12
Semester (Spring) – 1 Credit

Culinary III is the capstone experience for students who have successfully completed Intro, Culinary I and II. **Safety and Sanitation 105 – is integrated into the class for those who would like dual credit / manager certificate from ServSafe.** Students may be involved in a competition team, training with a chef mentor and work independently in externships/internships in the community. Application available in Rm 50 or Counseling Office.

Pre-Requisite: Culinary II (7541)

Other Course Offerings

8110 HHS Internship

Elective: 11 – 12
Semester – .5 Credit

This is a .5 elective credit opportunity where students spend 4 hours per week in a work setting at a job site that interests them. Students must apply for this unpaid internship, and enrollment is limited. An internship requires maturity and professional behavior and is limited to juniors and seniors. A resume, cover letter, and letter of recommendation are required; some job sites may also require an interview. In addition to those requirements, an applicant's counselor and administrator must approve the application. Not all placements are possible. Due to HIPAA regulations, many internships in medical and other health care settings are not possible. While not under HIPAA guidelines, internships in accounting and law are typically not available because of privacy/confidentiality rules. See Mrs. Strietzel for more information and an application.

1700 Student Leadership

Elective: 9 – 12
Full Year – 1 Credit

The Helena High School Student Leadership course is designed to develop quality student leaders and foster a positive school atmosphere. The students enrolled in the course assemble our Student Council. Students actively learn leadership and life skills through service learning, group work, Parliamentary Procedure, and planning and facilitating various school and community activities. Student Council plans, organizes, advertises, prepares, executes, and evaluates a variety of school activities that improve the school climate and environment. These events include homecoming, winter formal, teacher appreciation, prom, and Student Leadership week as well as all school assemblies. In addition, Student Council acts as the official liaison between the students, faculty/staff, and administration. The course is capped at 22 members with priority given as follows: elected officials, returning members, class seniority, and then those with a successful application in the election of the previous Spring.

8140 Library/Media/Technology

Elective: 10 – 12
Semester – .5 Credit

EARN CREDIT WHILE YOU WORK AND LEARN! This class will provide students with a working knowledge of libraries and library technology services. Students will learn what is required to keep the library and computer labs operational and organized. Students will be responsible for maintaining a section of print materials. They will also be expected to assist patrons and complete other tasks as assigned. Job skills such as punctuality, attendance, enthusiasm, and attention to detail are emphasized as well as professionalism and courtesy. This class is performance-based as is any job and can provide students with employment references.

Prerequisites: 1) Application 2) Limited Enrollment

8205 AP Seminar

Elective: 10 – 12
Full Year – 1 Credit

Interested in conspiracy theories? How Hollywood creates and perpetuates gender roles? Subjects ranging from Science to Art? In **AP Seminar**, you'll have the chance to have interesting discussions about topics like these and more as you learn how to write and present findings in an inquiry-based course focused on your academic interests and passions. Seminar is a pre-requisite for **AP Research**, the AP Capstone program, and a great fit for students who want to be prepared for college.

8206 AP Research

Elective: 11-12
Full Year – 1 Credit

AP Research is the final class of the AP Capstone Course and students can register for this class if they have completed AP Seminar. AP Research is for students that want to deeply explore an academic topic, problem, or issue of individual interest. During the school year, students will define a research question and design, plan, and conduct a year-long, research-based investigation. In the AP Research course, students further their skills acquired in the AP Seminar course by understanding research methodology; employing ethical research practices; and accessing, analyzing, and synthesizing information as they address a research question. Throughout this exploration students will create a portfolio of their work that shows their skill development, data collection in the research process, and their final product. The course culminates in an academic paper of 4000–5000 words (accompanied by a performance or exhibition of product where applicable) and a presentation with an oral defense. Successful completion of AP Research leads to the **AP Capstone** diploma.

Prerequisite: AP Seminar

8260 Peer Mentor Program

Elective: 10 – 12
Full Year – 1 Credit

The Peer Mentor Program is designed as a school-based mentor course. The mentors will be scheduled into a period of their choice and will mentor and tutor in high school, middle school or grade school classes four days a week. One day a week, mentors will stay in the period scheduled for training, journal writings, and debriefings about their mentor experiences that week. Mentors will also be placed in the community in various settings during 2nd semester i.e. Helena Industries, Assisted Living for Senior Citizens, etc. Students may enroll in this class more than one year with instructor approval.

Students will develop basic counseling and mediation skills that can be effective in the school setting in the community and for their own personal growth. In addition, it gives mentors access to education programming on a variety of health topics and current teen issues.

Prerequisite: Students must complete an application and be screened to qualify for the class. Please see Mrs. Sheila Williams for the application.

8261 Native American Youth Connection

Elective: 10 – 12
Full Year – 1 Credit

This class is offered for Native American Freshmen. Students will attend this class daily to learn study skills and receive tutoring to increase their academic success. They will also learn about the history and heritage of Montana Indian tribes and explore contemporary Native American issues. Please contact your student's school counselor or the IEFA Coordinator at the high schools for more information.

This class is offered for Native American Sophomores, Juniors and Seniors. Students will develop study skills and effective behaviors that support academic success. They will learn about cultures of Montana Indian Tribes and explore contemporary Native American issues. They will also learn basic counseling and academic mediation skills that will benefit them in the school setting, in the community and in their own personal growth. Students may qualify to mentor or tutor at the middle schools or elementary schools through the high school-based Native American to Native American mentoring program by maintaining a 2.0 or higher GPA and securing IEFA Coordinator approval. Students may enroll in this class more than one year with instructor approval. Please contact your student's school counselor or the IEFA Coordinator at the high schools for more information. *Native American students not enrolled in these classes, but who demonstrate a need or desire for tutoring or connecting with IEFA personnel to increase their academic success, should schedule a study hall as one of their class periods so that IEFA staff can work with them during the regular school day.*

HUMAN PERFORMANCE AND HEALTH ENHANCEMENT

A student must have 1.5 credits of Human Performance and 0.5 credits of Health Enhancement to graduate: Two (2) semesters of Freshmen Human Performance, one (1) semester of Sophomore Human Performance and one (1) semester of Health Enhancement. Junior and Senior students entering the Helena School District without the required Human Performance credits required to graduate, may select an elective to meet the graduation requirements. A student must have successfully passed both Freshmen and Sophomore courses in order to enroll in the Lifetime Sports class or upper-level Weight Training. A student may only be enrolled in two Human Performance classes in the same semester. In Freshman and Sophomore classes, a pre and post physical assessment, the Fitnessgram, is required by the Helena School District.

Dress for Human Performance Class

To succeed in Human Performance, appropriate attire is necessary. Students are required to wear a crew neck t-shirt with sleeves – t-shirt length covers the top of the shorts when arms are raised, shorts with sufficient length to cover the gluteal area or sweats, and tennis shoes that tie. Students' clothing must allow for safety and performance of movement and provide for modesty. **It is recommended that students wear the school colors of red, grey or white.**

Freshman H.P.

**Required: 9
Full Year – 1 Credit**

FRESHMAN HP CORE OPTIONS: Students must choose from the following year-long classes.

Freshmen will have three class options to satisfy their Freshmen Human Performance credit. All class options are based on Helena School District #1 Health Enhancement Standards. The classes are co-ed and are designed to help students achieve and maintain a healthy level of physical fitness through fitness workouts and game play situations. All three class options will use the Fitnessgram twice a year for fitness testing and will do some type of conditioning activities at least twice a week, using heart rate monitors for at least one of those days. All students will be responsible for knowing the thirteen major muscle groups and an exercise that goes with each muscle, the FITT Principle and 5 Components of Fitness. All classes will participate in a dance unit twice during the year. Specific activities will be incorporated in each option to allow individual student success. All Freshmen will be expected to dress out daily.

9100 Freshman HP Sports and Fitness Activities

Freshman Sports and Fitness Activities emphasizes physical fitness improvement through participation in a variety of physical activities. Students learn how to achieve and maintain a healthy level of physical fitness through participation in fitness workouts and individual, dual and team sports. Students will spend a minimum of two days per week participating in fitness activities and workouts. Students will utilize heart rate monitors for their workout once per week.

9102 Freshman HP Personal Wellness (Individual)

Freshman Personal Wellness emphasizes individual improvement in personal wellness. This class appeals to students who do not enjoy a traditional team sports environment. Students will learn how to achieve and maintain a healthy level of physical fitness by participating three days per week in a variety of individual and group fitness activities with a minimal amount of individual, dual and team activities. The primary focus of this class is improving personal wellness. Students will utilize heart rate monitors for their workout at least once per week.

9343 Freshman Weight Training

The emphasis of this class is to improve muscular strength/endurance, speed and agility through an athletic based workout program. Students will learn how to improve their health and skill related physical fitness. Students will spend **two** days per week in the free weight room and two to three days per week conditioning. A minimal number of games are played in this class. Individual improvement is measured with the Fitnessgram, weight maxes, dot testing, and a variety of other assessment techniques. Students will utilize heart rate monitors for their workout once per week.

9200 Sophomore H.P.**Required: 10
Semester – .5 Credit**

The emphasis of this class is to expose students to lifetime activities along with a variety of individual and team activities. All students will complete five major units including archery, fishing, knots and rappelling, air rifles, and dance. Fitness is developed and assessed throughout the semester through a wide variety of planned activities (i.e. heart rate monitors, Fitness testing, and a variety of planned activities and workouts). Students will also participate in a number of individual, group and team games. Examples of games include: Ultimate Frisbee, speedball, softball, volleyball, cricket, basketball, badminton and pickleball. This course follows the same common expectations that are standard for all Helena High School HP courses.

Prerequisite: Freshman HP

9210 Health Enhancement**Required: 10
Semester – .5 Credit**

Health Enhancement focuses on the mental/emotional, physical, and social well-being of students throughout the entirety of their lives. Emphasis is placed on the various aspects of healthy living in today's society. Written work, tests, and projects are used to evaluate students' understanding of current health issues and information.

9321 Aerobic and Fitness Lab**Elective: 10 – 12
Semester – .5 Credit**

Create sustainable, healthy habits in this Aerobic and Fitness lab while exploring the latest health and wellness trends including wearable fitness devices, fitness software, and nutrition. Students will assess their current fitness levels and utilize the latest fitness technology to monitor personal progress toward their health and wellness goals. The class is designed to give students an opportunity to participate in a variety of physical activities that will help improve and maintain their physical wellness. Students will have the use of a Fitbit while enrolled in this class. This is a semester class with the option of enrolling for a full year.

9330 Athletic Training/First Aid**Elective: 10 – 12
Semester – .5 Credit**

Students will learn the basic principles of athletic training. These experiences will include anatomy, the basics of injury assessment and taping for injury prevention, as well as exploration of professional careers related to physical education and athletic training. The class will also teach the basic procedures for First Aid and offer an opportunity for certification in First Aid. Fee required.

Prerequisite: Students successfully passing Freshman H.P. and instructor signature.

9340/9342 Physical Enhancement and Conditioning**Elective: 10 – 12
Semester – .5 Credit**

Physical Enhancement and Conditioning is a co-educational class open to all 10th-12th graders who have successfully passed Freshmen Human Performance. The course consists of flexibility work, running, plyometric conditioning, and agility drills, with the most emphasis on individual and group weight training programs.

Prerequisite: Successful completion of Freshman H.P.

9351/9352 Health Careers Explorations**Elective: 11 – 12
Full Year – 2 Credits**

The Health Career Exploration Class is a two-hour class (1 credit per semester) designed to provide high school students with the opportunity to develop the skills and knowledge for the health occupations. The class is two semesters and is offered as an elective class or for vocational credit 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 the classroom, laboratory, practicum and job shadowing settings. After successful completion of this class the students will be eligible to obtain a Certified Nursing Assistant certification, and students will find options for employment or further education in health care professions.

Prerequisite: Passing grades in two (2) years of math and (2) years of science as well as successfully completing the application process available from the counseling department.

9400 Lifetime Sports

Elective: 11 – 12
Full Year – 1 Credit

The emphasis of this class is to provide opportunities for students to explore a variety of recreational activities that can be enjoyed throughout their lifespan. Students will participate in different individual and team activities during this class. Examples include: Ultimate Frisbee, Field Games, Badminton, Pickleball, Shuffleboard, Basketball, Volleyball, Winter Survival, Fencing, Fly-tying, and Table Tennis. Students will also use a number of community facilities in order to receive the full recreational experience. Examples of community-based activities include: Disc Golf, Archery, Bowling, Skiing, Skating, Snow Shoeing, Cross Country skiing, Shooting Sports, Kayaking, Golf, Climbing, and Rafting. **Students are required to pay an \$100 fee to help cover the cost of using community and commercial facilities. There may be scholarships available to qualifying students.**

Prerequisite: Successful completion of Freshman and Sophomore H.P.

SPECIAL SERVICES

1602 Reading Lab S44

IEP: 9-12
Full Year- 1 Credit

System 44 is a comprehensive program for raising reading achievement and is designed to help struggling readers prepare for college and career. *System 44* includes key features to support students in developing foundational reading and writing skills. The *System 44* structure accelerates learning and enables the struggling reader to experience success through a focus on foundational reading skills, explicit instruction in close reading and comprehension, scaffolded instruction, and practice in writing.

1800 Practical English

IEP: 9 – 12
Full Year – 1 Credit

This course is designed to teach students functional oral and written communication skills. For example, students will learn to write business letters, memos, fill out job applications, and give speeches for various situations. Students will also be instructed in reading and listening skills and learn how to write an introductory research paper. Small class size will allow for individualized instruction.

Prerequisite: Teacher approval and current IEP team recommendation.

2801 Practical World Cultures

IEP: 9 – 12
Full Year – 1 Credit

This course features the interrelationship of geography, history, and culture in the major regions of the world. This class also focuses special attention on how other regions of the world are similar to the community in which the student lives. The major goal of this course is for the student to appreciate the likeness and differences of all the people in the world. *This is based on a yearly rotation schedule.

Prerequisite: Teacher approval and current IEP recommendation.

2803 Practical Government/History

IEP: 9 – 12
Full Year – 1 Credit

This course is designed to explore the differences in government, the U.S. Constitution, division of power, how citizens influence government, how decisions are made at local, state, and federal levels. It will increase the students' understanding of geography, local/state history, and economics. *This is based on a yearly rotation schedule.

Prerequisite: Teacher approval and current IEP recommendation.

3801 Practical Math 1**IEP: 9 – 10****Full Year – 1 Credit**

This class focuses on each individual's needs in basic math skills and learning how to manage a checkbook. Ability levels range from telling time to pre-algebra skills.

Prerequisite: Teacher approval and current IEP recommendation.

3810 Practical Math 2**IEP: 11 – 12****Full Year – 1 Credit**

This course is designed to teach students life-long mathematics skills, as well as basic math skills, allowing them to address the challenge of being on their own. Furnishing an apartment, buying groceries, bringing home a paycheck, budgeting for education, recreation, and travel are examples of some of the types of living skills to be addressed.

Prerequisite: Teacher approval and current IEP recommendation.

3811 Practical Math 3**IEP: 11 – 12****Full Year – 1 Credit**

This course focuses on preparing students for Pre-Algebra. We focus on the skills needed to succeed in Pre-Algebra.

Prerequisite: Teacher approval and current IEP recommendation.

4801 Practical Science**IEP: 9 – 12****Full Year – 1 Credit**

This course is a practical approach program designed for students in 9 – 12 grades. Students will either participate in Earth Science or Biology depending on the year.

Prerequisite: Teacher approval and current IEP recommendation.

8603 Practical Living Skills**IEP: 9 – 12****Full Year – 1 Credit**

This course is in the most restrictive setting for learners preparing for transition in a supported life skills setting, group setting or a vocationally supported environment. Skills are taught specific to student's short-term objectives that stem from the individual education plan. Skills may include basic skills, money identification and usage, intensive behavioral management, communication training, pre-vocational skill readiness, school-based jobs, community skills, work with grade level adapted materials.

Some students may be placed with Administrative approval for an individual course of study specific to the needs of the IEP/ER that are not able to be met for the student through other coursework.

Prerequisite: Teacher approval and current IEP team recommendation.

7578 Practical Home Living Skills**IEP: 9 – 12****Full Year – 1 Credit**

This course is designed to increase independent cooking and home living skills. Students will plan and prepare meals, including purchasing the supplies and following a budget. Students will also complete a unit on choosing and maintaining an apartment and will explore some aspects of clothing care.

Prerequisite: Teacher approval and current IEP team recommendation.

8420 Practical Social Skills**IEP: 9 – 12****Full Year – 1 Credit**

Individual and interpersonal social skills are focused on, which include initiating a conversation, introductions, offering emotional support, being assertive, accepting responsibility, and more. The students acquire skills through discussion and role-playing activities.

Prerequisite: Teacher approval and current IEP team recommendation

8410 Employability 1 – 2

Elective: 9 – 10
Full Year – 1 Credit

This course is designed for students who currently receive special services assistance. In beginning Employability, students will learn about the attitude and skills necessary to succeed in the work world. Examples of areas covered are work attitudes, preparing a resume, filling out a job application, the interview process, employers expectations, dealing with people, and positive self-esteem. In-class job experiences include recycling, shredding, mailings, assembly work, filing, and computer work to name a few.

Prerequisite: Freshman, Sophomores, Juniors, and Seniors with approval of instructor. Must successfully complete Employability 1 before taking Employability 2.

8430 Employability 3

Elective: 11
Full Year – 2 Credit

This course is a work-study course designed for students who currently receive special services assistance. Course objectives include: 1) Seek and secure employment; 2) Master the skills on that job; 3) Master appropriate work habits; 4) Continue career exploration and development through competitive employment. Students must be eligible for Special Services. Students receive credit for work.

Prerequisite: Employability 1 and 2. Grade 11 and teacher approval.

8440 Employability 4

Elective: 12
Full Year – 2 Credit

This course is a work-study course designed for students who currently receive special services assistance. Course objectives include: 1) Seek and secure employment; 2) Master the skills on that job; 3) Master appropriate work habits and behaviors; 4) Continue career exploration and development through competitive employment. Students must be eligible for Special Services and must have permission from resource teacher. Students received credit for working and will receive career guidance and counseling to assist them in the transition from high school to work or post-secondary training.

Prerequisite: Employability 1, 2 3 and teacher approval.

8806 Core Curriculum Lab

Elective: 9 – 12
Full Year – 1 Credit

This course provides students with an opportunity to learn and practice strategies related to study skills, organization, and time management while preparing students for the transition from high school to post-secondary education or employment. The personal strategies component of the course will teach students skills related to work completion, study strategies, and organization. The transitions portion of the course will emphasize application of effective organizational skills and study strategies and will teach students the skills necessary to be successful self-advocates. Students will bring assignments and study materials in order to apply and practice their skills towards work in core academic classes. This is a pass/fail elective course.

Prerequisite: Recommendation from IEP Team

TITLE I

1601 Reading Lab INT

Elective: 9 – 12
Full Year – 1 Credit

Reading Lab is designed to directly address individual needs for students to help them gain the tools to increase reading comprehension and writing skills. Reading Lab students will utilize the intensive reading intervention program Read 180. Read 180 curriculum utilizes adaptive and instructional software, high-interest literature, and direct instruction in reading and writing skills. We will also employ a variety of supplemental novels and activities throughout the semester to enhance the Read 180 curriculum. *Teacher approval required.*

HHS ACTIVITIES AND CLUBS

American Welding Society.....	Mrs. Galbavy
Art Club.....	Mrs. Jaynes
Basketball, Boys.....	Mr. Day
Basketball, Girls.....	Mr. Dudek
Bengalettes.....	Ms. Carpenter
Business Professionals (BPA)	Mrs. Humphrey
Cheerleading.....	Miss Navarrete
Choir Club.....	Ms. Steele
Cross Country, Boys.....	Mr. Gilbert
Cross Country, Girls.....	Mr. Zentz
DECA.....	Ms. Frazier
DND.....	TBD
Drafting Club.....	Mr. Spearson
Football.....	Mr. Broadhead
Golf, Boys and Girls.....	Mr. Shepherd
Green Group.....	Mrs. Van Alstyne, Mrs. Pichette
Key Club.....	Ms. O'Malley
Latin Club.....	Ms. Richmond
Mock Trial.....	Mr. Askin
National Honor Society.....	Mrs. Schulte and Mr. Poelking
Outdoor Club.....	Mr. McKim
Peers Club.....	TBD
Science Club.....	Mrs. Pichette, Mr. McKim, Mr. Hollow
SkillsUSA.....	Ms. Robertson
Soccer, Boys.....	Mr. Straub
Soccer, Girls.....	Mr. Meloy
Softball.....	Mr. Schulte
Spanish Club.....	Mrs. Tucker
Student Library Club.....	Mrs. Didriksen
Swimming.....	Ms. Shannon
Tennis.....	Mr. Bouchee
Thespians Troup #745.....	Mr. Holter
Track, Boys.....	Mr. Garza
Track, Girls.....	Mr. Zentz
Ukulele Club.....	Ms. Steele
Volleyball.....	Mrs. Day
Wrestling.....	Mr. Bogard

Name: _____

Graduation Year: _____

Planning for Graduation: My Four-Year Plan

9 th Grade Freshman	10 th Grade Sophomore	11 th Grade Junior	12 th Grade Senior
English 1 credit	English 1 credit	English 1 credit	English 1 credit
World Cultures 1 credit		American History 1 credit	American Government 1 credit
Math 1 credit	Math 1 credit	Math 1 credit	(College Prep Math Requirement) __ credit
Earth Science 1 credit	Biology 1 credit	(College Prep Science Requirement) __ credit	 __ credit
H.P. (P.E.) 1 credit	H.P./Health 1 credit	 __ credit	 __ credit
 __ credit	 __ credit	 __ credit	 __ credit
 __ credit	 __ credit	 __ credit	 __ credit
Total 9th Grade Credits: _____	Total 10th Grade Credits: _____	Total 11th Grade Credits _____	Total 12th Grade Credits: _____

ADDITIONAL CREDIT REQUIREMENTS

7 Credits of Electives
 1 Credit or Fine Arts (Music, Art, Drama, Photography)
 1 Credit of Voc Ed. (Welding, Culinary, Business, Marketing, etc.)
 2 Consecutive Years of a Foreign Language (for Out of State Admissions)

Your Total # of Credits: _____
23 Credits Needed to Graduate

Monday Early Release

Class Schedule

Period 0.....7:32 – 8:15

Period 1.....8:15 – 9:03

Period 2.....9:08 – 9:51

Announcements/Nutrition Break.....9:51 – 9:56

Period 3.....10:01 – 10:44

Period 4.....10:49 – 11:32

Lunch.....11:32 – 12:11

Period 5.....12:11 – 12:54

Period 6.....12:59 – 1:42

Period 7.....1:47 – 2:30

Tuesday – Friday

Class Schedule

Period 0.....7:25 – 8:15

Period 1.....8:15 – 9:10

Period 2.....9:15 – 10:05

Announcements/Nutrition Break.....10:05 – 10:10

Period 3.....10:15 – 11:05

Period 4.....11:10 – 12:00

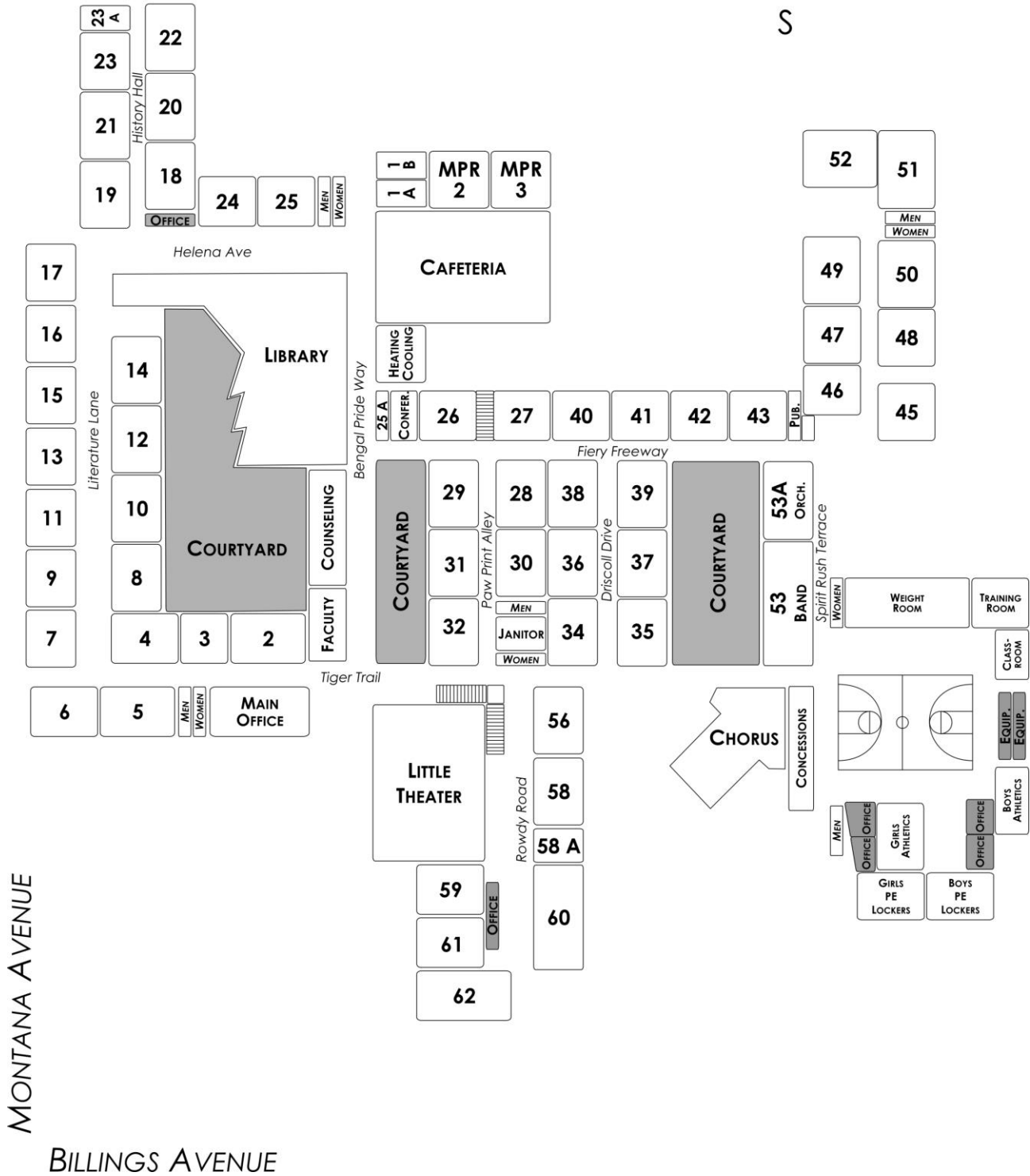
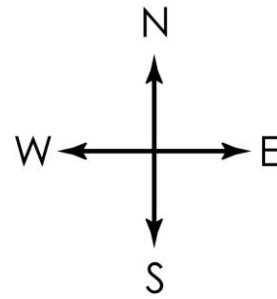
Lunch.....12:00 – 12:35

Period 5.....12:35 – 1:25

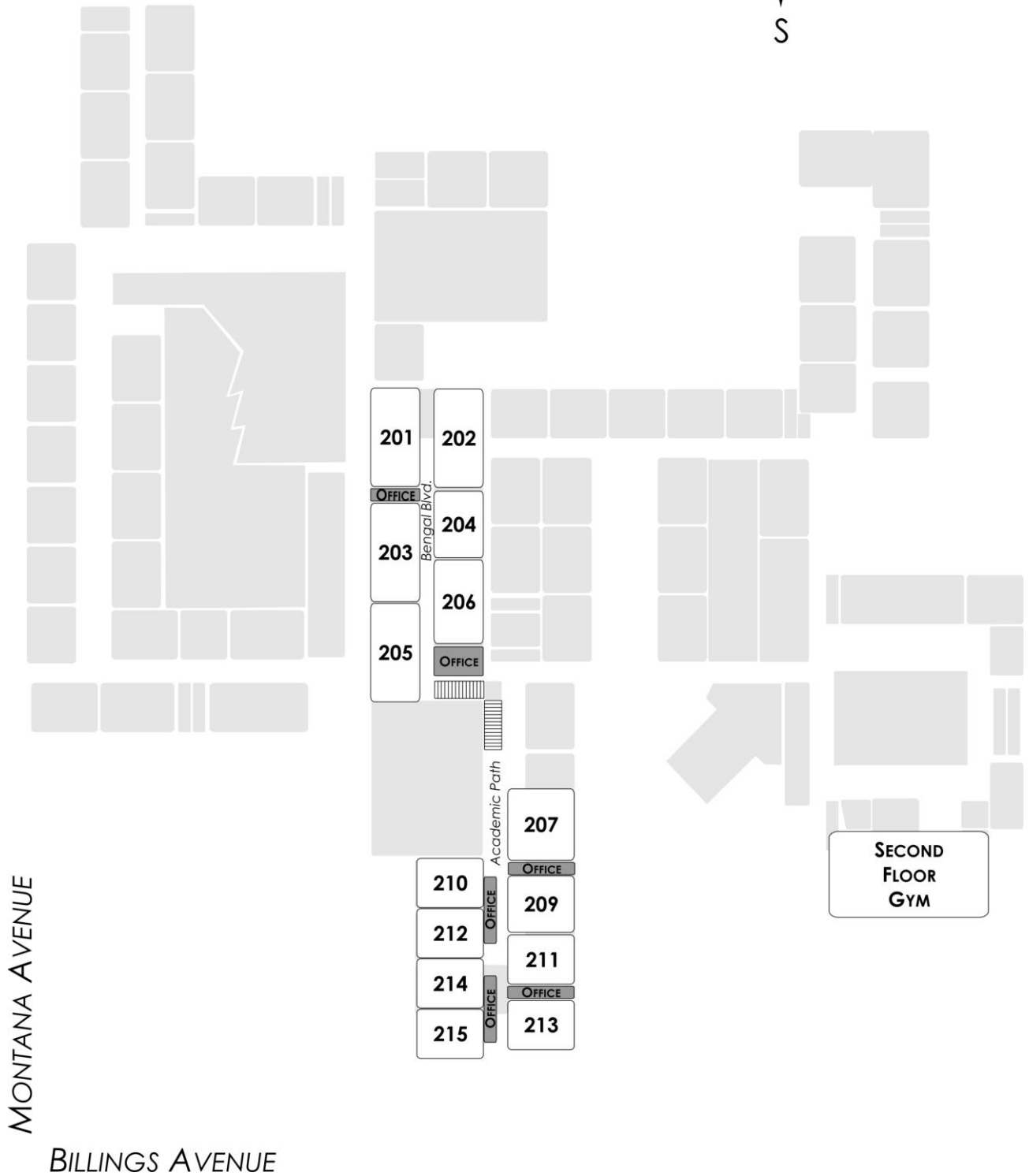
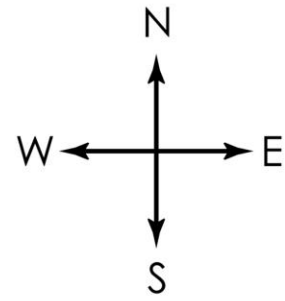
Period 6.....1:30 – 2:20

Period 7.....2:25 – 3:15

HELENA HIGH SCHOOL (MAIN LEVEL)



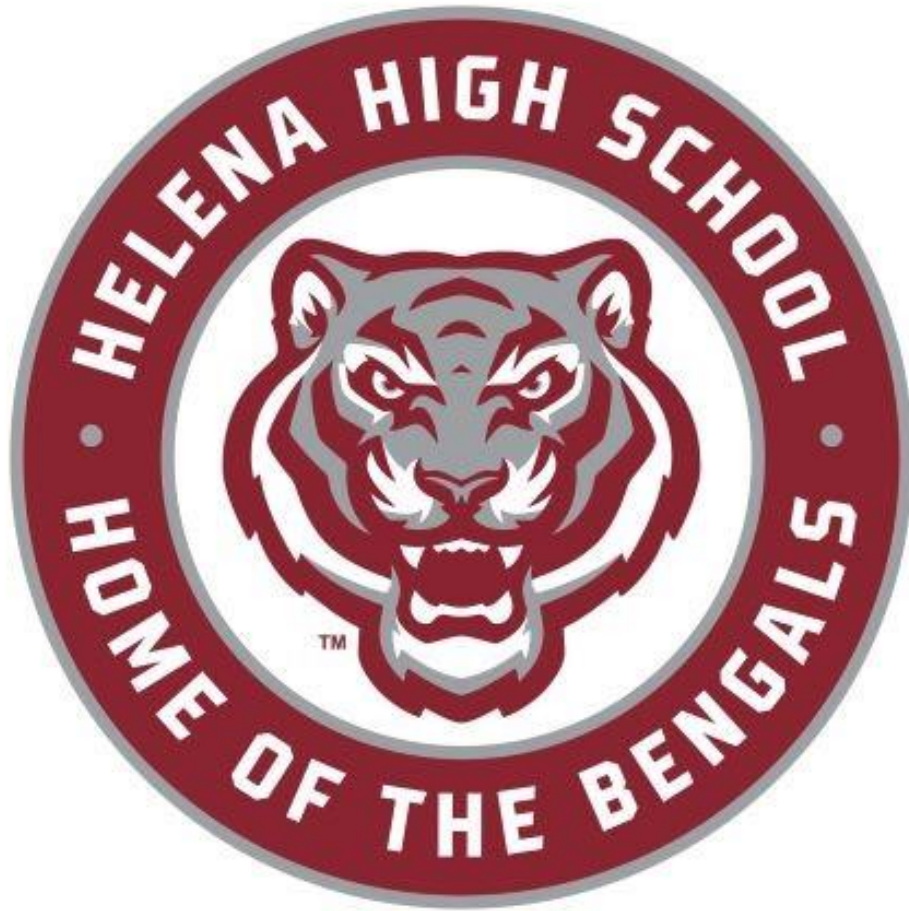
HELENA HIGH SCHOOL (UPPER LEVEL)



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GO BENGALS!