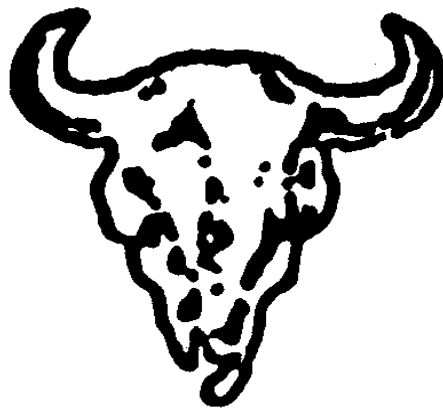


2014 - 2015

**CATALOG OF COURSES
&
COURSE DESCRIPTIONS**



**C.M. RUSSELL HIGH SCHOOL
GREAT FALLS, MONTANA**

A better place to learn and teach where relationships lead to success

CAREER and TECHNICAL OPTIONS 4

FINE ARTS OPTIONS..... 5

ADVANCED PLACEMENT PROGRAM..... 6

ONLINE COURSES 7

ART 9

BUSINESS..... 12

ELECTIVES 15

ENGLISH..... 19

FAMILY & CONSUMER SCIENCE..... 22

HEALTH ENHANCEMENT 27

MED PREP 29

INDUSTRIAL TECHNOLOGY 32

MATH..... 41

MUSIC..... 48

PUBLICATIONS..... 53

SCIENCE 56

SOCIAL STUDIES..... 62

THEATRE ARTS & STAGECRAFT 66

WORLD LANGUAGES..... 68

To CMR Students, Parents, and Staff:

This Course Description Book was developed to acquaint you with all of the courses offered at CMR High School. It will provide you with specific information, such as course objectives, department and length, whether it is a required course or elective and other specifics.

Our Course Numbering System will help you determine if a class is full-year or semester and if the course requires prerequisites. This system applies to all courses **EXCEPT** math and music, which are all full-year courses and usually require teacher recommendation for placement.

1-2 Indicates an entry level, full-year class with no prerequisite.

3-4, 5-6 Indicates a full-year class that has prerequisites. Level 1-2 must be taken before level 3-4, and so on.

No number Indicates a semester course for which there is no prerequisite.

Single #1 Indicates a semester course that is a prerequisite for another more advanced course.

Single #2 Indicates a semester course that requires a prerequisite. Level 1 must be taken before level 2, level 2 before level 3 and so on.

This book is used throughout the school year and is revised each spring. Please do not throw it away. If it has no value to you, please return the book to the CMR Advisement Center for recycling.

If you have any suggestions to improve this book, please inform the CMR Office Staff or the CMR Counseling Staff. Your suggestions are always welcome.

Thank you.



Dick Kloppel
Principal

Note: One credit each in Career/Technical and Fine Art is required for graduation.

One additional credit in Career Technical or Fine Art or 2 credits in Foreign Language will meet the Concentration Elective Requirement.

CAREER/TECHNICAL OPTIONS

Any of the following courses will meet the requirement for Career/Technical credits.

1. Any course listed in the Business Department
 - Info Processing
 - Financial-Tech Skills
 - Business Law
 - Multimedia
 - Marketing
 - Entrepreneurship
 - Management
 - Personal Finance
 - Accounting 1-2
 - Jobs for Montana Graduates
 - Job Seekers
 - Work Experience
 - Business Independent Study
2. Any course listed in Family and Consumer Sciences
 - Culinary Arts 1-2
 - Culinary Arts/Hospitality, Tourism, & Recreation
 - Interior Design 1, 2
 - Design 3
 - Developing Child 1-2, 3-4
 - Fashion Design & Construction 1, 2
 - Preparation for Life
 - FCS Independent Study
3. Any course listed in Industrial Technology
 - Intro to Industrial Tech
 - Welding 1, 2, 3/Welding 2 Design
 - Metals and Manufacturing 2
 - Power Technology 1
 - Consumer Mechanics1
 - Automotive Technology 3-4
 - Drafting (all levels)
 - Electronics (DC Electricity 1, Residential Electricity 2 and Applied Electronics 2)
 - Pre- Construction 1/Woods 1-2/Woods 3-4
 - Construction Technology 3-4
 - Applied Physics 1-2
 - Industrial Tech Independent Study
 - Ag 1,2,3,4
 - Ag Leadership

4. Any course listed in Publications/Media Production
 - Introduction to Journalism
 - Newspaper Workshop
 - Yearbook Workshop
 - RustlerNews.com Workshop
 - Stagecraft Technology 1-2
 - Stagecraft Design 1-2
5. Any course listed under Med Prep
 - Intro to Health Occupations 1
 - Human Body Systems 2
 - Honors Human Biology 5-6
 - Athletic Training 3
 - CNA (3)
 - EMT (3)
 - Health Occupations Internship 4
 - Introduction to Athletic Training
6. Any of the following other courses
 - Studio in Graphic Design
 - Video Production
 - Video Production II

FINE ARTS OPTIONS

The following courses meet the requirement for Fine Arts Credit.

1. Any course listed in the Art Department
 - Art Workshop 1-2
 - Studio in Graphic Design
 - Studio in Drawing and Printmaking
 - Studio in Painting and Drawing
 - Studio in Sculptural Design
 - Studio in Photography
 - AP Senior Studio
2. Any course listed in the Theatre Arts Department
 - Theatre Arts (all levels)
 - Stagecraft Design 1, 2
 - Stagecraft Technology 1, 2
3. Any course listed in the Music Department
 - Choir (all levels)
 - Band (all levels)
 - Orchestra (all levels)
 - Guitar 101
 - Music Theory
4. Any of the following courses
 - Video Production
 - Video Production II

ADVANCED PLACEMENT PROGRAM



The Advanced Placement Program consists of college-level courses and exams for junior and senior high school students. Many colleges and universities give credit and/or advanced placement to students whose AP examination scores are considered acceptable.

Students who register for AP classes have the option of taking the AP test. In 2012 the AP test fee was \$87.00 per test. Students can expect that this cost will increase a bit each year.

An AP course is a special college-level learning experience that takes a full academic year, making it possible for academically talented students to upgrade the quality and increase the rigor of their studies. The following AP courses are offered at CMR:

- AP Biology
- AP Calculus
- AP English 7-8
- AP Government
- AP Senior Art Studio
- AP US History

DUAL CREDIT CLASSES

- + EMT
- + Welding Qualification II & III
- + Construction Tech Qualifications II & III
- + Honor Statistics
- * Criminal Justice
- * Forensic Science
- *+ AP US History
- *+ AP Government
- ^ Intro to Engineering
- ^ Honors Physics

Student pays between \$50 - \$65 per college credit and earns high school and college credit simultaneously. Courses are offered through College of Great Falls - MSU, Montana Tech and the University of Great Falls, scheduled through CMR.

- * Dual credit through UGF
- + Dual credit through College of GF - MSU
- ^ Dual credit through Montana Tech

Please note these are the courses offered at time of printing and may be subject to change.

ONLINE COURSES

Before considering taking an online course, you need to think about whether it would be a good fit for you. To begin, you need reliable, consistent Internet access (DSL or faster) outside of school time. If you are not guaranteed access to a computer with a reasonably fast Internet connection at least five days a week outside of the hours of your traditional classes, online learning is not for you.

It is important that you have a good understanding of your learning style before you commit to an online class. Online courses are just as demanding as traditional courses, while requiring the student to learn new ways of participating and interacting with the teacher, fellow students, and the course content. Some students say online classes are even harder than traditional classes since everything is so new.

You would be a good candidate for an online class if you work well individually, you are comfortable with computers and other forms of technology, and you enjoy writing (remember, all discussion will be in the form of writing). Successful online learners are generally well organized self-starters who can work independently with few reminders on assignments and due dates.

However, if you lack self-discipline, have a hard time setting and maintaining a schedule, or struggle with technology (or have limited access to technology outside of school), it is unlikely you will succeed in an online course.

Online courses are the same as traditional courses in terms of the conditions for enrolling and dropping. If you drop an online course after the first ten days of the semester, it will generally be recorded as an F.

Here is a list of possible online courses available for you to take:

US History

CHARLES M RUSSELL HIGH SCHOOL GRADUATION REQUIREMENTS
23 CREDITS (EFFECTIVE CLASS OF '06)

CREDITS EARNED

4-YEAR PLAN

ENGLISH		4 credits required	
Eng 1		Eng 2	
Eng 3		Eng 4	
Eng 5		Eng 6	
Eng 7		Eng 8	

SOCIAL STUDIES		3 credits required	
EssWH 1		EssWH 2	
MT Gov			
US Hist 1		US Hist 2	
Sr Govt			

MATH		3 credits required	
Alg 1		Alg 1	

SCIENCE		3 credits required	
FOS 1		FOS 2	
Bio 1		Bio 2	

*CAREER TECHNICAL		1 credit required	
Busi, FCS, IT, Media Production, Stagecraft			

*FINE ARTS		1 credit required	
Music, Art, Theatre Arts			

HEALTH ENHANCEMENT				2 credits required	
Hlth 1	PE 1	Hlth 2	PE 2		
Hlth 3	PE 3	Hlth 4	PE 4		

*FINANCIAL-TECH SKILLS						.5 credits required	

*ELECTIVES		5.5 credits required			

*CONCENTRATION ELECTIVES		2 credits required	
From course work above, please keep track below of your Concentration Electives which must be 2 credits from one of the following areas:			
Career Technical			
Fine Arts			
World Languages			

9 th Grade	
<i>1st Semester</i>	<i>2nd Semester</i>
English 1 _____	English 2 _____
EssWH 1 _____	EssWH 2 _____
Math _____	Math _____
FOS 1 _____	FOS 2 _____
H/PE 1 _____	H/PE 2 _____
Elective _____	Elective _____
Elective _____	Elective _____

10 th Grade	
<i>1st Semester</i>	<i>2nd Semester</i>
English 3 _____	English 4 _____
MtGov/Elective _____	MtGov/Elective _____
Math _____	Math _____
Bio 1 _____	Bio 2 _____
H/PE 3 _____	H/PE 4 _____
Elective _____	Elective _____
Elective _____	Elective _____

11 th Grade	
<i>1st Semester</i>	<i>2nd Semester</i>
English 5 _____	English 6 _____
US Hist 1 _____	US Hist 2 _____
Math _____	Math _____
Science _____	Science _____
Elective _____	Elective _____
Elective _____	Elective _____
Elective _____	Elective _____

12 th Grade	
<i>1st Semester</i>	<i>2nd Semester</i>
English 7 _____	English 8 _____
Gov/Elective _____	Gov/Elective _____
Elective _____	Elective _____
Elective _____	Elective _____
Elective _____	Elective _____
Elective _____	Elective _____
Elective _____	Elective _____

ART

ART WORKSHOP 1-2

Length of class: Year, 1 credit
Prerequisite: None
Grade level: 9, 10, 11, 12

Entry level/beginning art course. This is an overview of 2-D and 3-D techniques based on the principles and elements of design. A portfolio will be kept. A wide variety of media will be explored. Art Workshop is a prerequisite to all other art classes.

STUDIO IN DRAWING AND PRINTMAKING

Length of class: Year, 1 credit
Prerequisite: Art Workshop 1-2
Grade level: 10, 11, 12
Fee: \$20.00

A one-year course to be taken by the student wanting in-depth, 2-dimensional experiences in drawing and printmaking. Emphasis will be on relating a sound knowledge of ideas and materials. Students should be willing to explore the source of their own ideas and develop them in interesting and inventive ways. Representational and interpretive drawing, prints, printing techniques and drawings of all kinds and in all media will be taught.

STUDIO IN PHOTOGRAPHY

Length of class: Year, 1 credit
Prerequisite: Art Workshop 1-2
Grade level: 10, 11, 12
Fee: \$25.00 per semester

Course provides an in-depth experience in black and white photography and in digital media. Students will be able to learn lighting and darkroom manipulations. Students can expect to operate manual cameras, operate darkroom equipment, toning baths, hand tinting, and solarization processes. Students will learn about the history of traditional photography as well as the artists who played a part in its development. Students will learn how the elements and principles of design apply to photography. Students will learn to manipulate digital images through the use of Adobe Photo Shop.

STUDIO IN GRAPHIC DESIGN

Length of class: Year, 1 credit
Prerequisite: Art Workshop 1-2
Grade level: 10, 11, 12

A concentrated year of work in various aspects of communication through art. The emphasis is on advertising and presentation of ideas and products with primarily 2-dimensional art, using Photoshop and Illustrator. This course counts towards Career/Technical credit OR Fine Arts credit. Please see your counselor to request your preference.

STUDIO IN PAINTING

Length of class: Year, 1 credit
Prerequisite: Art Workshop 1-2
Grade level: 10, 11, 12

This course is to be taken by the student wishing in-depth experience with a variety of media and techniques applying to painting. Tempera, opaque media, collage materials, acrylic media, watercolor, oil, encaustic and silk media will be taught.

STUDIO IN SCULPTURAL DESIGN

Length of class: Year, 1 credit
Prerequisite: Art Workshop 1-2
Grade level: 10, 11, 12
Fee: \$25.00

A one period, two-semester course recommended for the student with a strong interest and ability in 3-dimensional form and structure. Sculpture, ceramics and applications to architectural designing are included in this area of study. Materials may include wax, polyform, clay, glazing, wood, carving stone, mixed media, found objects, plaster, metal, Plexiglas, plastics and composition materials

ADVANCED PLACEMENT/SENIOR STUDIO

Length of class: Year, 2 credit class (2 periods)
Prerequisite: Must be an experienced senior, have a background of Art Workshop and two studio courses with a "B" average. Students planning on creating a fines arts portfolio should have taken Studio in Painting and Drawing, and Drawing and Printmaking. Students planning on creating a 2-D portfolio should have taken Studio in Photography, and Graphic Design.
No student will be admitted without verbal or written approval of the AP Art instructor. In case of transfer students, a portfolio of work must be reviewed by the Art department faculty. AP students may choose to submit a portfolio to be scored by the College Board at the end of the year.
New students are not able to enroll in this course second semester.
Grade level: 12

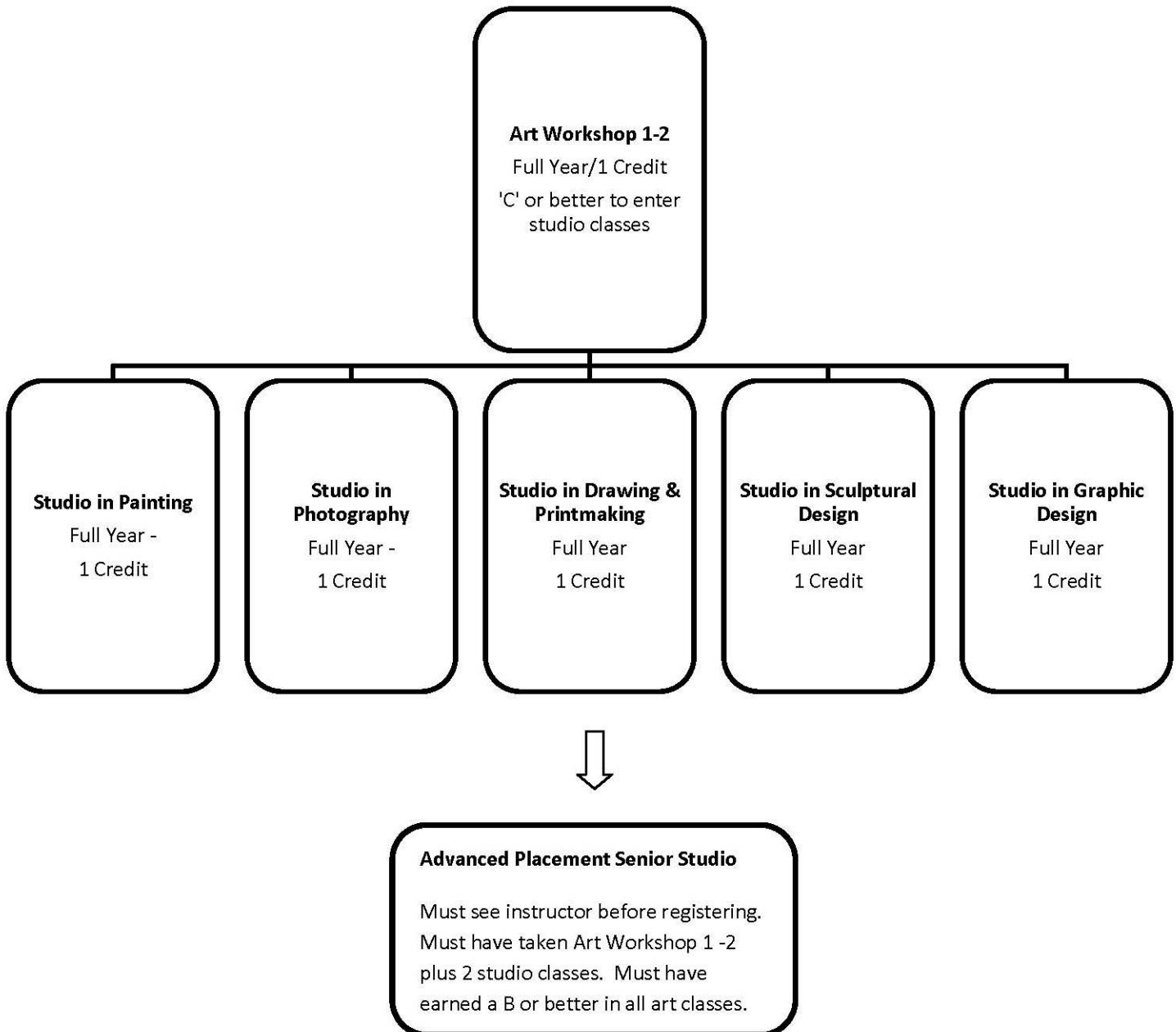
This course is designed for the senior art student who is considering art as a career or major area of interest in college and who is looking for in-depth experiences in art. *Students who fail first semester are not able to continue in second semester.*

WAIVING OF PREREQUISITES FOR ART CLASSES

If a student can show the ability to handle a class for which he does not meet the requirements, the appropriate art department instructor can waive the prerequisites. This will be done only in cases where visual evidence (slides, digital portfolio or work) has been presented to show ability. Grades from other schools should not be the only consideration.

FAILURE IN ART CLASS If a student fails 1st semester, he/she will not be allowed to take 2nd semester without the approval of the Art Teacher.

ART FLOWCHART



BUSINESS

ACCOUNTING

Not part of COMPANY (RUSTLER'S, INC.)

Length of class: Year, 1 credit
 Prerequisite: None
 Grade level: 10 (with instructor's permission), 11, 12

Accounting is the "language of business". Learn and practice the basics of bookkeeping, including journalizing, posting, preparing financial statements, adjusting and closing entries for a sole proprietorship, partnership and corporation. Students will use traditional methods as well as new techniques in automated accounting throughout the year.

THE COMPANY (Rustler's, Inc.)

All Business courses, except Accounting 1, will be offered in the COMPANY format. What this means is that approximately 50 students (employees) running the COMPANY will all have differing roles depending on what credit they are earning. For instance, the office manager will earn management credit for that semester. There will be a marketing department, a finance department, etc... Employees in all curricular (career) areas will work from modules by which they will be held accountable for a semester's worth of real business world activities, while earning credit in any of the business courses, except accounting. Rustler's, Inc. employees will earn professional development, increase soft skills, attend seminars including guest speakers from local businesses, and attend field trips and job shadows relative to their career areas. As we evolve to an Academy, "employees" will complete in-house and community products as they learn profitability and shareholding within the business they are running.

BUSINESS LAW

Length of class: Semester, ½ credit, 1st and 2nd Sem
 Prerequisite: None
 Grade level: 9, 10, 11, 12

This course will cover the following topics: law and justice, contract law, the law of sales, property law, agency and employment law, legal forms of business organization, and borrowing money and paying bills. In the COMPANY format, legal assistants can expect to "represent," research for, and negotiate for the COMPANY within the confines of business law.

FINANCIAL-TECH SKILLS

Length of class: Semester, ½ credit, 1st and 2nd Sem
 Prerequisite: 20 wpm keyboarding recommended. This course is required for graduation.
 Grade level: 11, 12

This course unites technology (Windows, Word, Excel, Access, PowerPoint, Publisher, Internet navigation) with financial management (budgeting, investing, insurance, banking, credit, payroll, W4, taxes, saving, financial math, loans and interest) in a real world format.

ENTREPRENEURSHIP

Length of class: Semester, ½ credit, 1st and 2nd Sem
 Prerequisite: None
 Grade level: 9, 10, 11, 12

Entrepreneurship is a step-by-step journey through the entire process of owning one's own business. Employees will learn how to create/implement a business plan; select a product or service to sell, determine customers, and obtain financing for their business.

INFORMATION PROCESSING

Length of class: Semester, ½ credit, 1st and 2nd Sem
 Prerequisite: None
 Grade level: 9, 10, 11, 12

This course emphasizes speed building using the touch system of keyboarding for personal use and/or preparation for advanced computer use. Letters, memos, tables and reports will be introduced. This is a good class to take if students are not adept at keyboarding. Proofreading and following instructions will be stressed in learning to set up special business applications on the computer

JOBS FOR MONTANA'S GRADUATES - JMG

Length of class: Full Year, ½ credit per semester; may be taken for a semester with instructor permission
 Prerequisite: None
 Grade level: 9, 10, 11, 12

JMG is a national recognized club being offered as a class that will assist the student in developing and defining career goals. JMG will encourage planning for the years immediately following graduation from high school, stimulate the student's initiative, support teamwork and leadership skills, and develop skills to secure and keep a job. Club Members will develop a feeling of pride in accomplishment. There will also be opportunities to attend leadership conferences. This class also counts as a prerequisite for the Work Exp class. *Transcript will read: Business Independent Study

JOB SEEKERS

Length of class: Semester, ½ credit, 1st and 2nd Sem
 Prerequisite: None
 Grade level: 10, 11, 12

This class will include a job career search, developing a portfolio, developing skills to secure and keep a job, and reviewing laws and legal issues. this class also counts as a prerequisite for the Work Exp class.

MANAGEMENT

Length of class: Semester, ½ credit, 1st and 2nd Sem
 Prerequisite: Financial-Tech Skills
 Grade level: 10, 11, 12

Employees do not sign-up for management but are 'hired' after enrolling in another business course. Employees can expect to exercise their leadership skills by owning and solving problems within the COMPANY as office manager. Being the COMPANY manager will instill a general competency in meeting the challenges of management, and will facilitate students' development of their own personal career aspirations. Tasks include: complete daily, computerized employee attendance reports; assist employees; motivate employees; keep employees on task; and write reports to document management accomplishments.

MARKETING

Length of class: Semester, ½ credit, 1st and 2nd Sem
Prerequisite: None
Grade level: 9, 10, 11, 12

This course is intended to introduce employees to the various components of marketing (getting products and services from producers to consumers). Subject matter includes the economic importance of marketing, a study of consumer motivation, marketing trends, product planning and research, and careers in marketing.

MULTIMEDIA

Length of class: Semester, ½ credit, 1st and 2nd Sem
Prerequisite: None
Grade level: 9, 10, 11, 12

Employees gain experience designing web pages using HTML and Dreamweaver, and exposure to Movie Maker, Photoshop, InDesign and CorelDraw software for design and multimedia projects. This course will provide employees with a hands-on knowledge of computer-aided graphics, digital photography, presentations software, web-page design, Internet usage, and Desktop publishing.

PERSONAL FINANCE

Length of class: Semester, ½ credit, 1st and 2nd Sem
Prerequisite: None
Grade level: 9, 10, 11, 12

Employees will study practical and personal money management by learning necessary financial survival skills through budgeting, investing, credit awareness, banking services, taxes, insurance and other consumer planning and decision-making topics.

WORK EXPERIENCE

Length of class: Semester, ½ credit, 1st and 2nd Sem
Prerequisite: Job Seekers OR JMG must be taken in advance of or concurrently with Work Experience.
Grade level: 12

Earn school credit while working outside of school. Class meets one period per week, as per individual arrangement with instructor. Students must work a minimum of 15 paid hours per week. "Learn & Earn"

BUSINESS INDEPENDENT STUDY

Length of class: Semester, ½ credit, 1st and 2nd Sem
Prerequisite: Financial-Tech Skills and Any other Company course
Grade level: 11, 12

As a continuation of a prior company course, students may petition to earn credit for working with a community member to complete a hands-on project/product. This petition will include the completion of a contract approved and signed by the student, parent, Company director and administrator. Another example of Business Independent Study is our 'employees' working the 7 AM breakfast club.

ELECTIVES

CONTEMPORARY AMERICAN PROBLEMS (SOCIOLOGY)

Length of class: Semester, ½ credit, 1st and 2nd Sem
 Prerequisite: None
 Grade level: 11, 12

Course emphasis is on America's social problems. The class will investigate the following areas: crime in the US, the criminal justice system, prisons, societal chemical use and abuse, the media and its influences, health care issues, and other issues of current domestic concern. The class will include student research and reporting of issues of personal interest and numerous class discussions on a variety of social issues. Students who are enrolled in Senior Project will be given preference for this course.

CRIMINAL JUSTICE (Dual Credit)

Length of Class: Semester
 Prerequisite: None
 Grade Level: (10 with instructor permission) 11, 12

This is a dual credit course taught in conjunction with the University of Great Falls and Great Falls Police Department and is open to Juniors & Seniors. If the student earns a "C" or better they are eligible for 3 Credits from the University of Great Falls. *It is taught on the same academic level as other AP and Dual Credit courses.*

All students will be subject to a background check by Great Falls Police Department and must sign a waiver indicating that they are aware and consent to this check. Students will also need to purchase the text book that is used in class. The purpose of this course will be to explore the criminal justice system in a democratic society. The course will examine some of the elements and players that comprise the criminal justice system and how they function together in their roles. Areas that will be emphasized are written communication, decision making skills, critical thinking, and creativity, flexibility, leadership and team membership. The primary means of presentation will be lecture-discussion, visual aids, video, group work, and guest speakers.

ECONOMICS 1

Length of class: 1st Semester **ONLY**, ½ credit
 Prerequisite: None
 Grade level: 11 (with instructor permission), 12

This class will explore some core principles of economics in an attempt to better understand individual choice and behavior and how that relates to the larger world we live in. Using a "less is more" approach, students will apply an "economic way of thinking" to examine not only economic, but also social, political and historic issues in search of greater understanding and clarity. Only students who are willing to analyze and discuss material at a high level should enroll. This class will go a long way towards preparing students to take the AP Microeconomics exam in May, but that will not be the sole purpose of the class.

ECONOMICS 2

Length of class: 2nd Semester **ONLY**, ½ credit
Prerequisite: Economics 1
Grade level: 11 (with instructor permission), 12

This class will compliment Economics 1, but will focus more on economic concepts and forces that shape whole systems or economies. Students will examine the factors that determine the economic success or failure of different countries and organizing systems. Only students who are willing to analyze and discuss material at a higher level should enroll. This class will go a long way towards preparing students to take the AP Macroeconomics exam in May, but that will not be the sole purpose of the class

EXCEPTIONALITIES

Length of class: Year, can add at 2nd semester, 1 or ½ credit
Prerequisite: Instructor Permission Only
Grade level: 11, 12

Students will receive instruction in techniques of working with and learning about students with disabilities. Students enrolling in this program will be given the opportunity to work one to one or in small groups with their peers. Students in Exceptionalities will be expected to be good role models in and out of the classroom, respect confidentiality and be willing to take initiative in class.

INTRODUCTION TO ATHLETIC TRAINING

Length of class: Semester, ½ credit
Prerequisite: None
Grade Level: 9, 10, 11, 12
Materials Fee: \$25

This course is offered for students interested in exploring the field of Athletic Training as a profession in a hands-on, activity based environment or in participating in our high school student athletic training program. Students who complete this course are not automatically an athletic training student for CMR athletic teams nor are athletic training students required to take this course, although it is highly recommended. This course counts as a Career/Technical credit.

PSYCHOLOGY 1

Length of class: Semester, ½ credit
Prerequisite: None
Grade level: 10, 11, 12

The class is an introduction to the study of human behavior. The class stresses traditional topics including History and Scope of Psychology, Research Methods, Neuroscience, Sensation and Perception, Consciousness, Learning, Memory, Intelligence, Personality and Disorders. Students will have the chance to take the AP test for this course upon completion of both Psychology 1 & 2.

PSYCHOLOGY 2

Length of class: Semester, ½ credit
Prerequisite: Psychology 1
Grade level: 10, 11, 12

The class is a continuation of Psychology I and the study of human behavior. Topics tend to have an emphasis on the careers available in psychology. Topics to be covered include Therapy, Health Psychology, Motivation and Emotion, Social Psychology, Positive Psychology, Life Span Psychology, Criminal Psychology, Industrial and Organizational Psychology and Sport Psychology. Students will have the chance to take the AP test for this course upon completion of both Psychology 1 & 2.

SIGN LANGUAGE

Length of class: 2nd Semester **ONLY**, ½ credit
Prerequisite: None
Grade level: 9, 10, 11, 12

This is a beginning-level class in sign language in terms of developing expressive and receptive abilities in American Sign Language (ASL), Manually Coded English (MCE), and Signed Exact English (SEE). Fluency with individual words and conversational sentences will be developed through lecture, discussion, small and large group activities, and individual study by students. The main goal is to develop fluency in basic expressive and receptive aspects of Sign Language so that a student may be able to initiate/maintain a basic conversation with a deaf or hard-of-hearing person in a store, restaurant, or casual conversation situation. Care is taken to discuss aspects of Deaf culture and issues related to being deaf, hard-of-hearing, and associated topics.

ARGUMENTATION and DEBATE

Length of class: 1st Semester **ONLY**, ½ credit
Prerequisite: None
Grade level: 9, 10, 11, 12

This course is a concentrated study of the techniques of debate and argumentation. Current topics of national or international importance will be considered. Members of this class are encouraged to be participants on the C. M. R. Speech and Debate Team.

SPEECH 1

Length of class: Semester, ½ credit, 1st and 2nd Sem
Prerequisite: None
Grade level: 9, 10, 11, 12

This course will focus on informative speaking skills including demonstration, expository, oral interpretation of literature, impromptu, and speech to entertain. The students will be responsible for speaking assignments, writing, and organization skills through the communication process.

SPEECH 2

Length of class: 2nd Semester **ONLY**, ½ credit
Prerequisite: Speech 1
Grade level: 9, 10, 11, 12

This course will focus on persuasive speaking skills including impromptu, original oratory, extemporaneous speaking, Parliamentary procedure, sales speeches, and the Lincoln-Douglas Debate. The students will be responsible for speaking assignments in the above mentioned areas and various research skills. Writing and organization skills will also be taught.

VIDEO PRODUCTION

Length of class: Semester, ½ credit
Prerequisite: None
Grade level: 9, 10, 11, 12

The class will provide the student an opportunity to explore the video making process from initial conception to audience review. The student will become acquainted with basic video technology to include film history, pre-production planning and storyboarding, camcorder operation, video and audio editing and the critical review of finished work. Students will also be introduced to the basics of Broadcast Journalism, from history to how a newsroom works, marketing, programming and modern ethical issues. Video cameras and editors are available for those students who do not own their own. This course counts toward completion of Fine Arts OR Career Technical credits.

VIDEO PRODUCTION II

Length of class: 2nd Semester **ONLY**, ½ credit
Prerequisite: None
Grade level: 9, 10, 11, 12

The class will provide the student an opportunity to expand the video making process and not only complete class projects, but originate a personal film as well as create Broadcast quality television stories. The student will receive instruction in selected film genre, directing for film, acting for film, screenwriting and technical areas like lighting and animation. Students will work on news programs that highlight issues and stories with CMR. Students will also work to create Video Announcements that will be broadcast to the school. Video cameras and editors are available for those students who do not own their own. This course counts toward completion of Fine Arts OR Career Technical credits.

ENGLISH

Criteria for Enrollment in CMR English Honors and AP Courses

Students considering Honors/AP English should have:

1. English grades of A or B
2. Good reading ability, writing and speaking skills
3. Intellectual curiosity, ethics, and leadership
4. College plans
5. Good standardized test scores
6. Consistent attendance in school
7. Maturity
8. Willingness to remain a member of the group for the entire year
9. Willingness to do summer reading and writing assignments
10. Willingness to read more difficult reading selections at a faster pace and greater detail than regular English

ENGLISH 1-2

Length of class: Year, 1 credit
Prerequisite: 8th grade English
Grade level: 9

The ninth grade yearlong course offers work in critical viewing, listening, composition, literature, and speaking. Composition will lead to development of a four to five paragraph composition. Literature will include selections of fiction, drama, poetry, non-fiction and mythology. Literature selections include Romeo and Juliet, The Odyssey, and Of Mice and Men.

ENGLISH 1-2 HONORS

Length of class: Year, 1 credit
Prerequisite: 8th Grade English and Honors/AP Criteria listed at the start of this section
Grade level: 9

Students who enroll in Honors English must be highly motivated, well-organized students who actively participate in class discussions and generally possess the leadership qualities of the motivated learner. Students must be willing to read classics and more difficult authors such as Dickens, Steinbeck and Poe. Students must demonstrate higher level thinking skills and possess strong writing skills. Honors English students must be willing to complete summer reading and writing assignments.

ENGLISH 3-4

Length of class: Year, 1 credit
Prerequisite: English 1-2
Grade level: 10

This 10th grade course offers work in composition, oral communication, viewing, listening and literature. Composition concentrates on personal and literature-based essays, technical writing and strategies to use when doing timed writings. Fiction, non-fiction, drama and poetry make up the literature section.

ENGLISH 3-4 HONORS

Length of class: Year, 1 credit
Prerequisite: English 1-2 and Honors/AP Criteria listed at the start of this section
Grade level: 10

The course follows the same basic curriculum as English 3-4; however, there will be more intensive analysis of reading selections and more writing assignments with greater emphasis on the composition process.

ENGLISH 5-6

Length of class: Year, 1 credit
Prerequisite: English 3-4
Grade level: 11

This 11th grade yearlong course concentrates on the study of American fiction, non-fiction, drama and poetry. The works of a variety of authors will represent various periods in American literature. Composition concentrates on analysis and literature-based essays, technical writing and strategies to use when doing timed writings.

ENGLISH 5-6 HONORS

Length of class: Year, 1 credit
Prerequisite: English 3-4 and Honors/AP Criteria listed at the start of this section
Grade level: 11

Students will follow the same basic curriculum as English 5-6 above, but will have more intensive analysis of reading selections and will work for greater refinement in the written assignments.

ENGLISH 7-8

Length of class: Year, 1 credit
Prerequisite: English 5-6
Grade level: 12

Students will read and evaluate a wide variety of poetry, essays, drama and fiction chosen from English and World literature. Composition will be integrated with literature, viewing and speaking activities. Students will improve their writing skills through practice of the writing process and completing a research project. Other writing experiences include personal, literature-based essays and technical writing.

ENGLISH 7-8 SENIOR PROJECT

Length of class: Year, 1 credit
Prerequisite: English 5-6
Grade level: 12

This course will attempt to personalize student learning through a year-long senior project. Students are encouraged and provided time to explore a topic they are passionate about that is career, hobby, or service based. National and state standards for Senior English will still apply. Students will still experience writing and speaking, drama, nonfiction/fiction, etc. However, unlike traditional English this course will include an opportunity to experience communication arts within activities related to their self selected project topic wherever possible. For example, students will select their senior research paper topic as a foundation for their senior project.

ENGLISH 7-8 SENIOR PROJECT MED PREP

Length of class: Year, 1 credit
Prerequisite: English 5-6, concurrent enrollment in Med Prep course(s)
Grade Level: 12

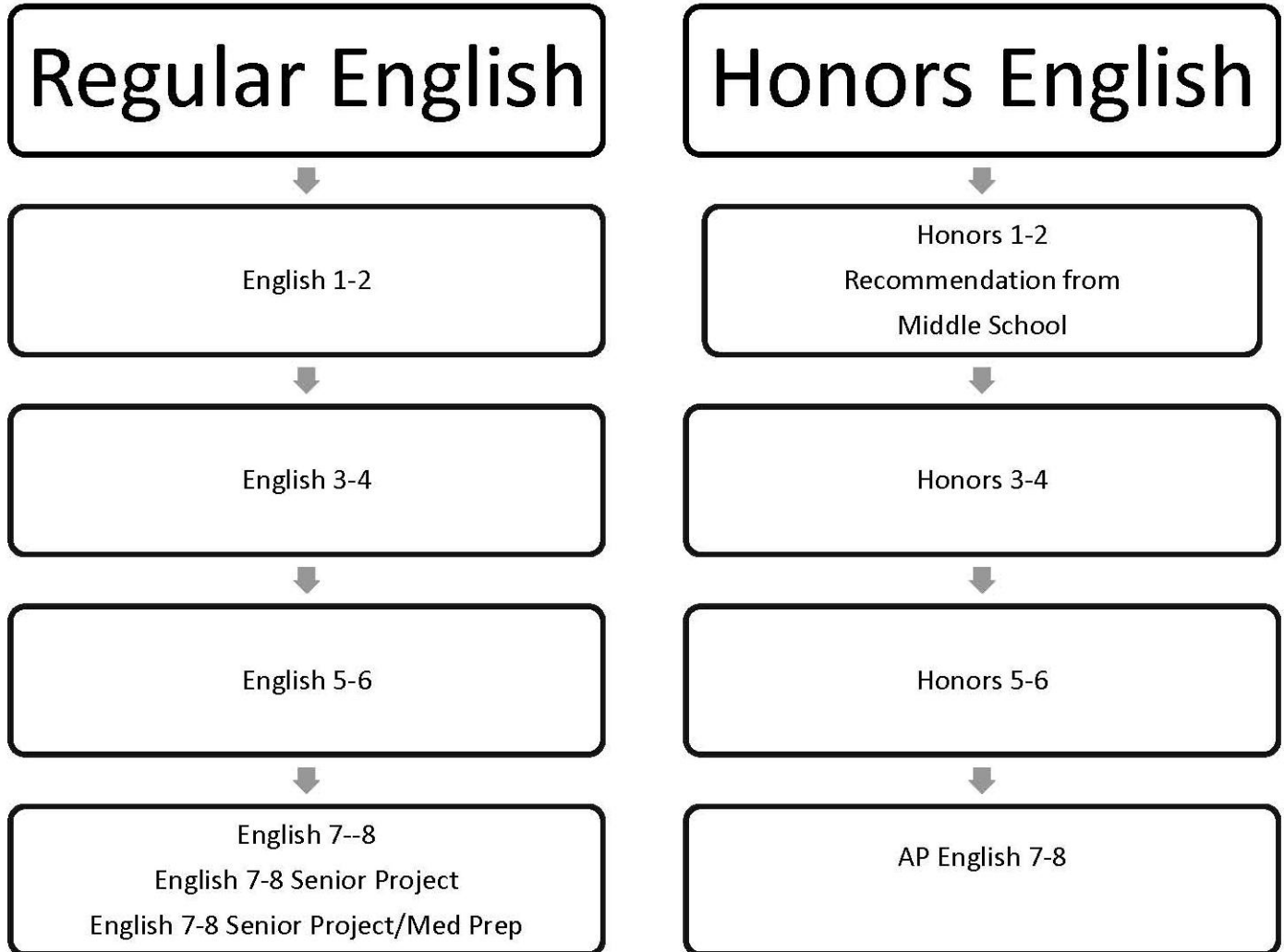
This course attempts to personalize student learning through a 45 or 90 hour, self selected medical internship that serves as their Senior Project. National and state standards for Senior English will still apply. Students will still experience writing and speaking, drama, nonfiction/fiction, etc. However, unlike traditional English, this class will include a medical slant wherever possible. Students will have the opportunity to experience communication arts within activities topically related to the medical field. Further, students will select their senior research paper topic as a foundation for their medical internship. There will be an application and interview process for this course. If you are not selected, you will be placed into English 7-8 Senior Project, AP English 7-8 or traditional English 7-8.

AP ENGLISH 7-8

Length of class: Year, 1 credit
Prerequisite: English 5-6 and Honors/AP Criteria listed at the start of this section
Grade level: 12

This course is an in-depth study of world-class literature. Successful completion of summer readings and a reading journal are mandatory for entering the program. AP English is a challenging experience that requires more effort, gives opportunity for individual accomplishment and penetrates deeper into both the content of world literature and the analysis of that content. While the AP examination given every May by the College Board is an important benefit of the course, the course focuses on developing additional intellectual discipline. With close reading and intensive study of works of recognized literary merit, writing as a developed discipline and discussion of material that intellectually mature students find engaging, students refine their critical thinking skills by becoming more aware of the nuance of language and appreciative of the creative process.

ENGLISH DEPARTMENT FLOWCHART



- HONORS 1-2 ENGLISH IS BY RECOMMENDATION FROM MIDDLE SCHOOL TEACHER
- YOU MAY MOVE FROM REGULAR TO HONORS ENGLISH OR FROM HONORS ENGLISH TO REGULAR ENGLISH
- YOU MAY NOT TAKE MORE THAN ONE LEVEL OF ENGLISH WITHOUT AN ACADEMIC VARIANCE

FAMILY & CONSUMER SCIENCE

DEVELOPING CHILD 1-2

Length of Class:	Year, 1 credit
Prerequisite:	None
Grade level:	10,11,12
Fee	\$30.00

This is a class for those students interested in the development of children, parenting children and working with children in a variety of venues. Students are trained in CPR in this class.

DEVELOPING CHILD 3-4

Length of Class:	Year, 1 credit
Prerequisite:	Developing Child 1 and 2
Grade level:	11, 12
Fee	\$30.00

Focus for this class will be more in depth work with school age children in various professions. Students will complete modules to work toward a CDA. This class is designed for independent learners to work online, meet with the classroom teacher, and complete internship hours. Flexibility must be a consideration.

PREPARATION FOR LIFE

Length of Class:	Semester, Sem 1 or Sem 2, ½ credit
Prerequisite:	None
Grade level:	11, 12
Fee	\$5.00

This class will focus on and emphasize personal and social responsibility. Topics include communication skills, decision making, personal relationships such as dating and marriage, sexuality, and personal finance.

CULINARY ARTS 1-2

Length of Class:	Year, 1 credit
Prerequisite:	None
Grade level:	9,10,11,12
Fee	\$50.00

Class contains basic to intermediate food preparation with an emphasis on skills, techniques, presentation, and organization. Safe food handling practices will be emphasized. Students have the opportunity to complete ServSafe Certification in the Level II portion of class. Pre –Requisite to Culinary Arts/Hospitality, Tourism & Recreation; must pass this class with a C or better to continue.

CULINARY ARTS/HOSPITALITY, TOURISM, & RECREATION

Length of Class: Year, 1 credit
Prerequisite: Culinary Arts 1-2 with a grade of C or better
Grade level: 10, 11, 12
Fee: \$50.00

This class is considered an upper level course and is for those students with not only an interest in cooking but the entire hospitality industry. Course topics focus on culinary arts, travel, tourism, and recreation.

FASHION, DESIGN, & CONSTRUCTION 1

Length of Class: Semester, ½ credit
Prerequisite: None
Grade level: 9,10,11,12
Fee: \$15.00

This is a class for those students interested in Fashion, Design, merchandising and construction. Student will learn how to apply design principles to a variety of projects using basic sewing techniques with the conventional sewing machine, serger, and embroidery machine to support design and creativity. Presentation of student projects is required. Fabric applications may include dyeing, printing and painting.

FASHION, DESIGN, & CONSTRUCTION 2

Length of Class: Semester, ½ credit
Prerequisite: Fashion, Design, & Construction 1
Grade level: 9,10,11,12
Fee: \$15.00

The emphasis in this class is on creativity, design, and incorporating current fashion trends into the class content. This course covers intermediate sewing techniques. Student will design projects on the computerized embroidery machine. The focus will be on careers and Sewing for Profit. An exploration of current trends in the fashion industry will be investigated

INTERIOR DESIGN 1

Length of Class: Semester ½ credit
Prerequisite: None
Grade level: 9,10,11,12
Fee: \$15.00

This class enables students to explore their creativity in the field of Interior Design. Students will study the elements of design and backgrounds and lighting in relationship to designing personal space. Field trips will explore the world of Interior Design careers.

INTERIOR DESIGN 2

Length of Class: Semester, ½ credit
Prerequisite: Interior Design 1
Grade level: 9,10,11,12
Fee: \$15.00

Explore in depth the principles of design & apply them in a hands-on experiential way. Students will experience design work involving the High School House. Historical periods of design along with modern applications will be emphasized. Career exploration will be examined.

DESIGN 3

Length of Class: Semester, ½ credit, 1st or 2nd semester
Prerequisite: Interior Design 1 and 2 or Fashion, Design, and Construction 1-2
Grade level: 10, 11, 12
Fee: \$15.00

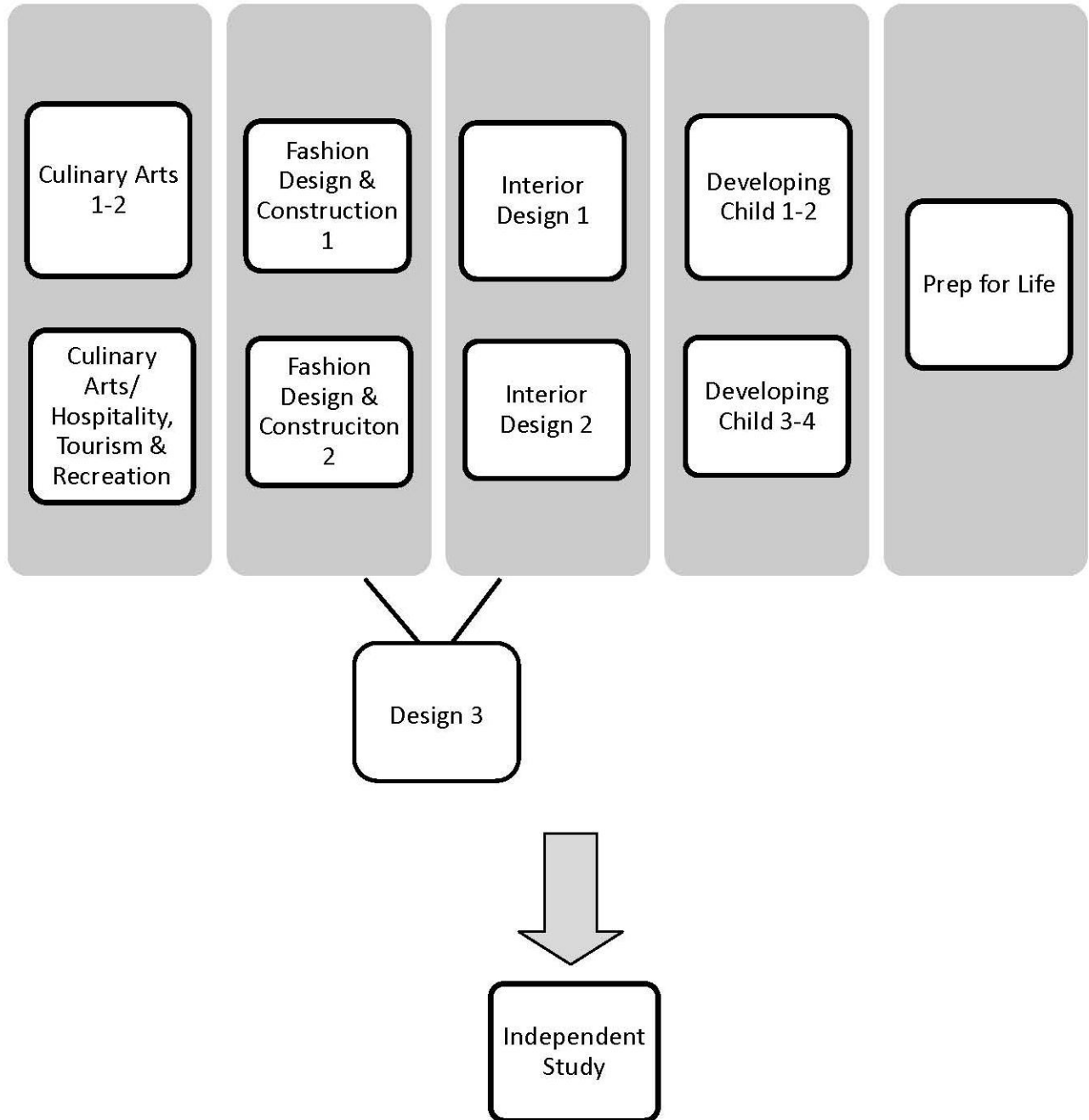
This is an advanced level course which will involve independent study. This class is for students who have taken Fashion Design and Construction I & II and/or Interior Design I & II. Internships in the design field will be a part of this upper level course. Self directed students will explore and determine area of study with approval of designated instructor.

FCS INDEPENDENT STUDY

Length of Class: Semester, ½ credit (can be taken full year)
Prerequisite: Previous upper level courses and teacher approval
Grade level: 11, 12
Fee: To be determined

Individually designed to suit student needs. Specifically for students who would like to continue study in the FCS area. Supervising teacher will meet with students individually to determine course of study.

FAMILY CONSUMER SCIENCE FLOWCHART



HEALTH ENHANCEMENT

AEROBICS

Length of class: Semester, ½ credit; May be taken consecutive semesters
 Prerequisite: PE 1-2 (*9th Graders may fill out an academic variance*)
 Grade level: 9; (see above) 10, 11, 12

Aerobics is an elective course designed to enhance levels of aerobic fitness through various dynamic activities. Students can expect to complete a variety of different aerobic workouts including, but not limited to: dance, circuit and interval training, tae-bo, slides, gliders, step aerobics, physio balls, Pilates, yoga and resistance training. Class may be taken multiple years for elective credit.

HEALTH 1-2

Length of class: 1 year, ½ credit; follow the calendar (even on even days, odd on odd days)
 Prerequisite: None
 Grade level: 9; open to 10, 11, and 12 as make-up

Health is a required course that meets every other day according to the calendar date. Practical information for overall health and wellness will be presented. Emphasis of study and discussion will be placed on: human body systems, nutrition, healthy relationships, tobacco, alcohol, and drug awareness, and prescription medications.

HEALTH 3-4

Length of class: Year, ½ credit, follow the calendar (even on even days, odd on odd day)
 Prerequisite: None
 Grade level: 10; open to 11 and 12 for makeup

Health is a required course that meets every other day according to the calendar date. Practical information for overall health and wellness will be presented. Emphasis of study and discussion will be placed on: stress management, mental and emotional health including self image, coping with death and suicide prevention, resolving conflict and violence prevention, reproduction from conception to birth, STI's and HIV as well as body systems.

PHYSICAL EDUCATION 1-2

Length of class: Year, ½ credit; follow the calendar (even on even days, odd on odd days)
 Prerequisite: None
 Grade level: 9; open to 10, 11, 12 for make-up

Physical Education is a required course that meets every other day according to the calendar date. Physical Fitness and conditioning are the primary emphasis along with a variety of activities including, but not limited to: team sports, individual sports, recreational games, recreational activities, rhythms and dance, and lifetime activities.

PHYSICAL EDUCATION 3-4

Length of class: Year, ½ credit; follow the calendar (even on even days, odd on odd days)
 Prerequisite: None
 Grade level: 10; open to 11 and 12 for makeup

Physical Education is a required course that meets every other day according to the calendar date. Physical Fitness and conditioning are the primary emphasis along with a variety of activities including, but not limited to: team sports, individual sports, recreational games, recreational activities, rhythms and dance, and lifetime activities.

WEIGHT TRAINING

Length of class: Semester, ½ credit; may be taken consecutive semesters
 Prerequisite: PE 1-2 (*9th graders may fill out an academic variance*)
 Grade level: 9; (see above) 10, 11, 12

Weight Training is an elective course designed to enhance levels of muscular strength and endurance through various strength training activities. Students can expect to complete 4 strength training workouts per week as well as plyometric, speed enhancement, and agility training. Class may be taken multiple years for elective credit.

HEALTH ENHANCEMENT FLOWCHART

Freshman Required	Sophomore Required
<ul style="list-style-type: none"> • Health 1-2 • Physical Education 1-2 	<ul style="list-style-type: none"> • Health 3-4 • Physical Education 3-4

Electives

Weight Training	Aerobics
Grade Level 10 - 12	Grade Level 10 - 12

- Electives are available to freshman with an academic variance
- Electives may be taken concurrently or consecutively
- Electives may be taken more than one time for credit

MED PREP

The med prep academy is designed for students interested in careers in any field of health care (physician, nurse, physical therapist, athletic trainer, veterinary medicine, dentistry, etc.). Students will receive an overview of careers in the healthcare field and prepare to enter a post-secondary healthcare program.

The medical science academy consists of 6 courses and an internship option. Introduction to Health Occupations is a prerequisite for all other medical science classes.

INTRODUCTION TO HEALTH OCCUPATIONS 1

Length of class: Year, 1 credit

Prerequisite: None

Grade level: 10, 11, 12

This introductory medical science course includes an overview of concepts related to becoming a healthcare worker. Topics include history and trends of healthcare and health care fields, careers in healthcare, professionalism, legal and ethical responsibilities, cultural diversity, medical terminology and medical math. **This course is a prerequisite for all other medical science courses.**

HUMAN BODY SYSTEMS 2

Length of class: Year, 1 credit

Prerequisite: Intro to Health Occupations, (may be taken concurrently), Chemistry recommended

Grade level: 11, 12

Essential principles of human anatomy and physiology are presented through lecture and lab components, including basic chemistry, cell and tissue studies, and an overview of all the body systems. This course is intended to serve the needs as an introduction anatomy course for the allied health field.

HONORS HUMAN BIOLOGY 5-6

Length of class: Year, 1 credit

Prerequisite: Intro to Health Occupations (may be taken concurrently), Biology 1-2, Chemistry (may be taken concurrently)

Grade level: 11, 12

Materials Fee: \$25**

This laboratory-based course introduces students to the structure and function of the human body. Topics such as the fundamental principles in organic and inorganic chemistry, cellular metabolism, cellular anatomy, cellular biology and histology will be covered and subsequently applied to the physiology of the body as a whole. Systems to be covered in this course include integumentary, digestive, circulatory, lymphatic, immune, respiratory, urinary, nervous, sensory, musculoskeletal, endocrine and reproductive. Dissection is a component of this course. As such, those with an aversion to dissection should consider taking a different course. ****There may be a \$25 materials fee for this course.**

INTRODUCTION TO ATHLETIC TRAINING

Length of class:	Semester, ½ credit
Prerequisite:	None
Grade level:	9, 10, 11, 12
Materials fee:	\$25

This course is offered for students interested in exploring the field of Athletic Training as a profession in a hands-on, activity based environment or in participating in our high school student athletic training program. Students who complete this course are not automatically an athletic training student for CMR athletic teams nor are athletic training students required to take this course, although it is highly recommended. This course is offered for Career & Technical Credit.

ATHLETIC TRAINING 3

Length of class:	Year, 1 credit
Prerequisite:	Intro to Health Occupations may be taken concurrently.
Grade level:	11, 12
Fee:	\$15 lab fee

This course will provide basic instruction and skills needed to administer emergency first aid treatment, taping, immobilization, basic injury evaluation, and rehabilitation principles. In-depth musculoskeletal anatomy will be covered from head to toe. Upon successful completion of the course, students will be certified in CPR for adults and children in accordance with the requirements of the American Heart Association. This course is designed for anyone interested in a career in healthcare especially physical therapy, athletic training or orthopedics.

CNA (3)

Length of class:	1 Quarter for 2 hours per day, .5 credit
Prerequisite:	Intro to Health occupations, Human Body Systems OR Honors Human Biology (may be taken concurrently)
Grade level:	11, 12

The CNA (Certified Nursing Assistant) course is a quarter long and is taught by nurses from Benefis Healthcare. The classes are taught from Per 0 and 1 with travel time allotted during period 2. After successful completion of the CNA course, students may choose to take the certification exam.

EMT BASIC (Dual Credit) (3)

Length of class:	1 semester, 1 credit
Prerequisite:	Intro to Health occupations, Human Body Systems OR Honors Human Biology (may be taken concurrently)
Grade level:	11, 12

EMT is a semester course taught at MSU-Great Falls College of Technology. Students receive a dual credit for college (6) and high school (1) credit. There is a cost attached to this program. Generally, the student can expect to pay about 1/3 of the total MSU-GF COT tuition and fees.

The course will focus on skill development in the primary responsibilities of the EMT-B. Upon successful completion of the course, graduates are eligible to sit for the Montana and National Registry certification examinations. Students must be 18 years of age to take certification examination.

HEALTH OCCUPATIONS INTERNSHIP (4)

Length of class: Dependant upon internship placement or 45 hours, .25 credit or 90 hrs, .5 credits per semester
 Prerequisite: Intro to Health Occupations and either Human Body Systems or Honors Human Biology
 Grade level: 12

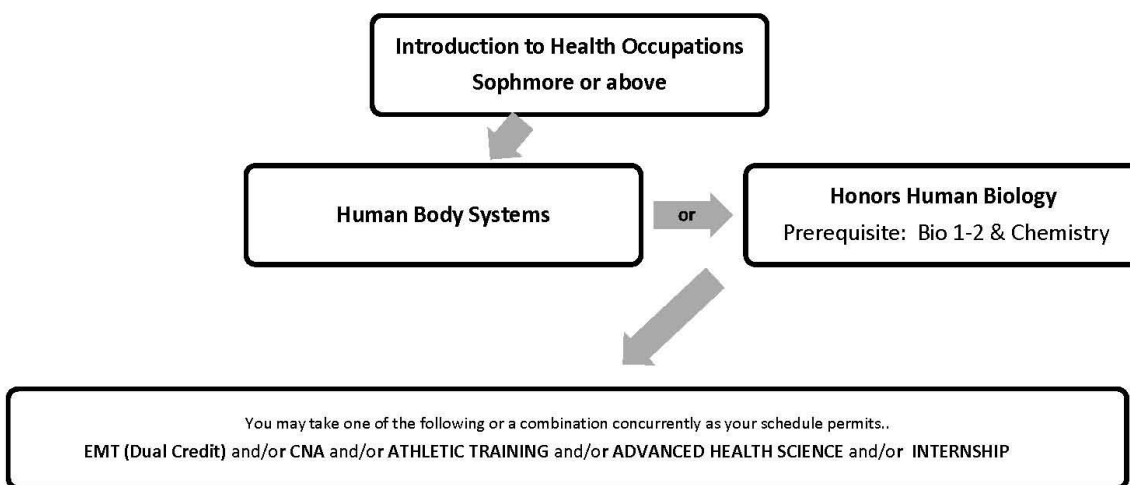
Students will receive high school credit for working in a health-related field. Hours will be determined upon internship placement. Advantageous for students to also have taken CAN, EMT or Athletic Training.

ADVANCED HEALTH SCIENCE

Length of class: Full Year, 1 credit (can be taken for 1 Sem, 1st or 2nd Sem for ½ credit)
 Prerequisite: Intro to Health Occupations, Human Body Systems or Honors Human Biology
 Grade Level: 12

Students will work in a cooperative learning setting to review case studies and practical scenarios related to the function of the human body systems and current health care issues. Evaluation of these topics will allow students to apply knowledge and skills acquired to previous health science classes.

MED PREP FLOWCHART



INDUSTRIAL TECHNOLOGY

INTRO TO INDUSTRIAL TECHNOLOGY

Length of class: Year
Prerequisite: None
Grade level: 9

This is a “hands-on” project-oriented class open to 9th graders only. This course includes the study of safe and basic operation of tools and equipment and technologies in each of the following areas: Woods, Drafting, Metals and Electronics. Students will spend 9 weeks in each of these classes. This is the only “shop” class open to 9th grades.

WELDING 1

Length of class: Semester, ½ credit, 1st or 2nd Sem
Prerequisite: None
Grade level: 10, 11, 12
Fee: \$15.00

This course covers the instruction in operation, care and safety practices in the following areas of welding: Arc welding in the flat horizontal and vertical positions, electrode selection identification and use, weld testing visual and destructive, oxy-acetylene welding torch in the flat and horizontal position and welding brazing and cutting torch operation.

WELDING 2

Length of class: Semester, ½ credit, 1st or 2nd Sem
Prerequisite: Welding 1
Grade level: 10, 11, 12
Fee: \$15.00

This course is designed to take the student who has completed Welding 1 further in their course of study in the world of welding. Instruction will be centered around practical, hands-on application welding on both required and student-engineered projects. A real-world emphasis will be placed on the class content by not only improving upon existing welding knowledge but also by working in the factors of cost analysis, shop time and space constraints, correct weld procedure, print leading and layout, and proper selection of equipment and techniques best suited for the project at hand. TIG and MIG welding on both aluminum and steel will be covered in depth in addition to a closer look at welding processes in Welding 1.

WELDING 2 DESIGN

Length of class: Semester, ½ credit, 1st or 2nd Sem
Prerequisite: Welding 1
Grade level: 10, 11, 12
Fee: \$25.00

This course is designed to hone the student’s skills in various types of welds and processes with an artistic emphasis. The class will be centered around a hands-on approach to creating aesthetic metal sculptures of various types and sizes. Through required projects and procedures, students will have freedom to interpret and create metal art with their own personal flair.

WELDING 3

Length of class: 2nd Semester ONLY, 1 credit (2 Period class)
Prerequisite: Welding 2, Drafting 1
Grade level: 11, 12
Fee: \$15.00

This course is a chance for continuation of welding in both a technical sense through equipment and additional skill levels and in an application sense to project work. Students will get a chance to take all aspects of previously learned metals technology, welding, and machining-to the next level. The class is project based and will revolve around both the student's own required individual project work as well as larger mass-produced project work done from a team and marketable business approach. Students will be expected and required to utilize various aspects of CNC (computer numerically controlled) technology-milling, lathe, plasma cutting -into project work. Students will be required to design in greater detail and build a series of workable, realistic projects to satisfy a series of skill level benchmarks.

WELDING QUALIFICATIONS II & III (Dual Credit)

Length of class: Full Year
Prerequisite: Completion of Welding 2
Grade level: 12
Fee: **Cost yet to be determined**

This is a year-long college program offered at Great Falls College- MSU. The program is available to seniors who have completed Welding II and are on track to graduate. An application and placement test are required as well as a personal interview. Partial tuition scholarships are available. Please see your counselor for more details.

METALS MANUFACTURING 2

Length of class: Semester, ½ credit
Prerequisite: Welding 1
Grade level: 10, 11, 12
Fee: \$15.00

This course is designed to further acquaint students with metalworking processes extending in and beyond the scope of the welding shop. The class will have a heavy real world emphasis on metal machining processes and other associated topics. CNC (computer numerical control) machines – a mill, lathe, and plasma cutter- and the computer coding and operation of will be covered in this class. Additional time will be spent on other practical applications of machining, forging, foundry work, and some applicable welding processes. Students will also be required to complete a number of in-class individual projects as in relation to course content.

DC ELECTRICITY

Length of class: Semester, ½ credit
Prerequisite: None
Grade level: 10, 11, 12
Fee: \$10.00

This course covers basic theories of electricity and is designed to produce a foundation for training in the electrical and electronics program. A combination study of the basic laws of electricity (Ohm's, Watt's, Kirchoff's, etc) and extensive practical work with series and parallel circuits, motor construction, magnetism and the use of basic electrical test instruments, etc. is emphasized. In addition, career opportunities in the electrical industry are investigated.

RESIDENTIAL ELECTRICITY 2

Length of class: Semester, ½ credit,
Prerequisite: DC Electricity
Grade level: 10, 11, 12

This course teaches skills necessary to become a residential or commercial electrician and to maintain the electrical system of a personal residence. Subjects covered are electrical safety, generation and transmission, transformers, service entrances, breaker boxes, outlets, switches, wiring of components, doorbells, lighting, heating systems and A/C motors.

APPLIED ELECTRONICS 2

Length of class: Semester, ½ credit
Prerequisite: DC Electricity
Grade level: 10, 11, 12
Fee: \$15.00

This course exposes students to a wide variety of electronic technologies. Examples of subject matter covered include working safely with electricity, knowing and understanding various electronic components such as speakers, resistors, capacitors, diodes, leads, potentiometers, photocells, transistors, scrs, timer chips and switches. Students will use the electronics components to build circuits such as radios, automatic night-lights and sound systems. Other topics include robotics and computer control, radio signals, infrared signal, fiber optics and lasers.

POWER TECHNOLOGY

Length of class: Semester, ½ credit, 1st or 2nd Sem
Prerequisite: None
Grade level: 10, 11, 12
Fee: \$10.00

Students will provide a small single cylinder four-cycle engine (lawn mower, roto-tiller, etc.) to disassemble and overhaul. Students will also provide a lockable storage tub and the parts required to overhaul the engine. Theory of operation of two and four stroke engines is covered. Factors relating to design, construction and operation of small and automotive engines will be covered. The operations of fuel, lubrication, cooling and ignition systems are covered also. Shop practices and safety are stressed. Practical experience will be to disassemble the small engine, clean, measure and recondition parts as needed. The students will then reassemble the engine and make the engine run.

AUTOMOTIVE TECHNOLOGY 3-4

Length of class: Year, 2 credits (2 period class)
Prerequisite: Power Tech and Instructor approval
Grade level: 11, 12
Fee: \$10.00 per Sem

Automotive Technology is a two-credit, two-hour per day, year long course designed to prepare students for technical training as well as entry level employment. The following will be covered: engines, drive trains, braking systems, electrical systems. Students must provide their own work project and the supplies needed for repair on student owned vehicles.

AUTOMOTIVE TECHNOLOGY ASE

Length of class: Year, 2 credits (2 period class) (CMR students generally take 7AM/1st section)
Prerequisite: Power Tech, Auto Tech 3-4 and instructor approval
Grade level: 12

Automotive Technology will be a limited ASE certification course in which students will have the opportunity to train and test for 2-3 of the 9 total ASE certification areas. This course will be held at a Paris Gibson Auto Center. Course work will include both classroom and shop experience. Full ASE certification requires a minimum number of educational and or work experience hours. Because this course will not provide the minimum number of educational hours, students will need to attain additional hours beyond this course to attain full ASE certification in the given areas.

CONSUMER MECHANICS (Girls ONLY)

Length of class : Semester, ½ credit, 1st or 2nd Sem
Prerequisite: None
Grade level 10, 11, and 12
Fee: \$5.00

Practical experience will include disassembling the small engine, finding and comparing manufacturer's specifications with their engine parts to determine condition of the parts, and reassembling and making the engine run. Students will also practice basic vehicle maintenance such as oil change and tire rotation. Students will need to provide any supplies for vehicle maintenance (oil, filters, etc.) on student-owned vehicles.

PRE-CONSTRUCTION

Length of class: Semester, ½ credit, 1st or 2nd Sem
Prerequisite: None
Grade level: 10, 11, 12 (space available basis)
Fee: \$10.00

This course is designed to give the students an understanding of the theory of house construction with emphasis placed on safe use of hand power equipment. Student projects may include building sawhorses, scaffolding brackets, a doghouse, play house or shed.

WOODS 1-2

Length of class: Year, 1 credit
Prerequisite: None
Grade level: 10, 11, 12
Fee: \$15.00

The course includes the study of safe and basic operation of woodworking machines, kinds of wood, basic wood finishing techniques, and wood joints. Class members will have an opportunity to develop self-reliance, initiative, and responsibility. 2nd semester, students will have the opportunity to design, construct, and finish furniture that requires more time to complete. Students will be responsible to furnish their own wood to complete individual and required project assignments.

WOODS 3-4

Length of class: Year, 1 credit
Prerequisite: Woods 1-2
Grade level: 11, 12

This course is designed to take the student who has completed Woods 1-2 further in their course of study in the world of woods. Instruction will be centered around practical, hands-on application with wood on both required and student-engineered projects. A real world emphasis will be placed on the class content by not only improving upon existing wood working knowledge but also by working cost analysis, shop time and space constraints, correct jointing procedures, and layout, and proper selection of equipment and techniques best suited for the project at hand. Machine/equipment maintenance will also be covered in depth.

CONSTRUCTION TECHNOLOGY (HIGH SCHOOL HOUSE)

Length of class : Year, 2 credits, (2 period class)
Prerequisite: Woods 1-2 or Pre-Construction or instructor permission
Grade level: 11, 12
Fee: \$15.00

Based on residential construction and building codes: picking site lay out on site, concrete (forming and finishing), estimate materials, framing walls and roofs, stair construction, drywall installation and taping, and roofing on site. An actual house will be built by students. OSHA 10 hour Certification and First Aid/CPR.

CONSTRUCTION TECH QUALIFICATIONS II & III (Dual Credit)

Length of class : Year
Prerequisite: Construction Technology (High School House)
Grade level: 12
Fee: **Cost yet to be determined**

This is a year-long college program offered at Great Falls College- MSU. The program is available to seniors who have completed Construction Technology (High School House) and are on track to graduate. An application and placement test are required as well as a personal interview. Partial tuition scholarships are available. Please see your counselor for more details.

DRAFTING 1

Length of class: Semester, ½ credit, 1st or 2nd Sem
Prerequisite: None
Grade level: 10, 11, 12

This course provides for the development of basic Drafting principles. An excellent course for students considering Engineering, Architecture and Military Service. Students will use AutoCAD and various drafting methods. Areas covered are: orthographic projection, isometric and oblique drawings, dimensioning techniques, assembly drawing, sectioning, and auxiliary views, along with architectural drawings. Careers and educational opportunities and basic techniques of Windows are discussed.

APPLIED DRAFTING 2

Length of class: 2nd Semester **ONLY**, ½ credit
Prerequisite: Drafting 1
Grade level: 10, 11, 12

Applied Drafting 2 is a drafting course designed to advance student skills developed in Drafting 1. This class is designed to help prepare students for the Engineering and Architectural Drafting classes as well as related fields beyond high school.

ARCHITECTURAL DRAFTING 3-4

Length of class: Year, 1 credit
Prerequisite: Drafting 1
Grade level: 11, 12

This course provides for development of residential architectural drawings using AutoCAD. The majority of the time will be spent learning the types of architectural drawings and producing those drawings. The class will, as much as possible, simulate an industrial drafting laboratory. Areas covered and further developed are: plot plan, floor plan, elevation drawings, typical wall section, foundation plan, whole house section, presentation drawings, dimensioning techniques, scale drawings, detail drawings, building specifications and building codes. In addition, employment and educational opportunities are explored and discussed.

ENGINEERING DRAFTING 3-4

Length of class: Year, 1 credit
Prerequisite: Drafting 1
Grade level: 11, 12

This course provides for advanced development of engineering Drafting principles using AutoCAD and Windows. The class will as much as possible simulate an industrial drafting laboratory. Areas covered and further developed are: dimensioning techniques, standard fastener representations, scale drawing, assembly drawing, sectioning, surface developments, and auxiliary views. Students will also develop 3-D drawing of various objects. In addition, employment and educational opportunities are explored and discussed.

APPLIED PHYSICS 1-2

Length of class: Year, 1 credit
Prerequisite: Foundations of Science 1-2 and Algebra Prep or Instructor Permission.
Grade level: 10, 11, 12

Applied Physics is an inquiry based approach to science that will help prepare students for vocational schools and the workplace. This is best done through a project based class. Students can expect to build bridges, boats, wings, bottle rockets, and closely examine alternative energy sources such as solar panels and wind generators. Students will be given the background information in Newtonian Mechanics, Fluid Dynamics and Basic Electricity to understand good design choices with their projects. They will also be given access to computer and programs such as Microsoft Word and Excel to communicate their findings with others.

INDUSTRIAL TECHNOLOGY INDEPENDENT STUDY

Length of class: Year or Semester, ½ credit per semester
Prerequisite: 2 or more IT credits with a focus in a certain area and pre-approved instructor permission.
Grade Level: 12

This course is designed for students with a special interest in an Industrial Technology area and have focused on that are in the last 3 years.

AG LEADERSHIP

Length of class: Full year, ½ credit
Prerequisite: Must currently be enrolled in an Agriculture class, approved CTE course, or approved course of study.
Grade level: 9, 10, 11, 12
Fee: \$20 (includes FFA membership, subject to nationally regulated increase)

This course will not formally meet during the day but rather be online and by appointment. Students will complete a Supervised Agricultural Experience (SAE) program consisting of a minimum of 20 documented hours including the appropriate record book documentation. Students will be required to participate in a FFA committee and a minimum of three Career Development Events (CDE's) at a local, regional, or state level. Students will individually schedule a minimum of 1.5 hours per month with the instructor(s) to review progress, refine skills, and build goals. The curriculum and instruction will focus on life knowledge and skills such as interpersonal relationships, information literacy, problem solving, critical thinking, and teamwork.

AGRICULTURE I

Length of class: Year, 1 credit
Prerequisite: None
Grade level: 9

This course is an overview of the physical agricultural systems and industry. It will introduce students to plant systems, animal systems, power structural and technical systems, natural resource systems, agribusiness systems, food products and processing. Instruction will utilize career exploration, laboratory experiences, and direct instruction.

AGRICULTURE II

Length of class: Year, 1 credit
Prerequisite: None
Grade level: 10

This course is an overview of the biological agricultural systems and industry. It will introduce students to plant systems, animal systems, power structural and technical systems, natural resource systems, agribusiness systems, food products and processing. Instruction will utilize career exploration, laboratory experiences, and direct instruction.

AGRICULTURE III

Length of class: Year, 1 credit
Prerequisite: None
Grade level: 11

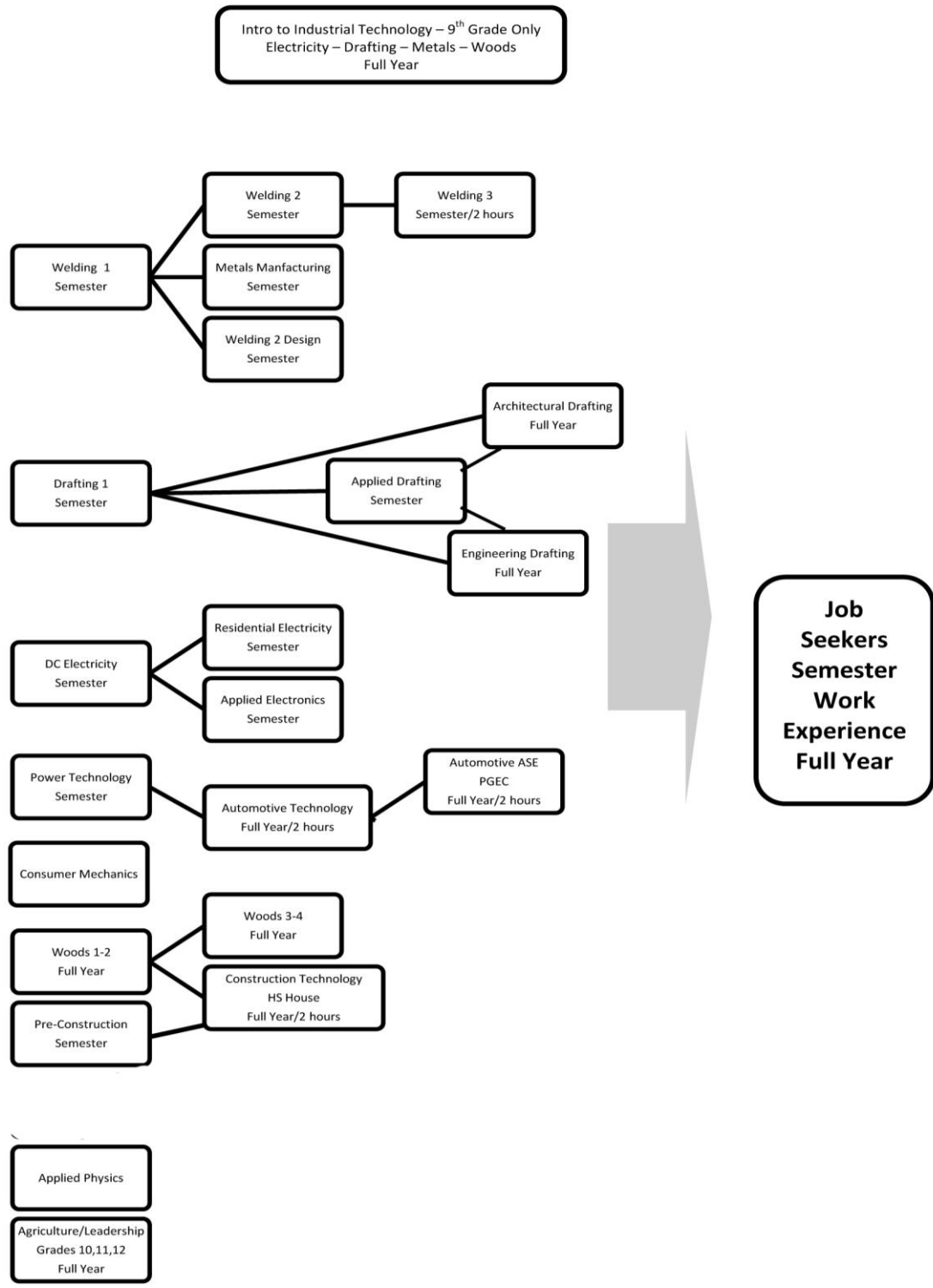
This course is an application of selected agricultural systems and industry as related to student interests and career goals. It will introduce students to plant systems, animal systems, power structural and technical systems, natural resource systems, agribusiness systems, food products and processing. Instruction will be delivered in independent student modules. A student must complete 12 modules to complete the course.

AGRICULTURE IV

Length of class: Year, 1 credit
Prerequisite: None
Grade level: 12

This course is an application of selected agricultural systems and industry as related to student interests and career goals. It will introduce students to plant systems, animal systems, power structural and technical systems, natural resource systems, agribusiness systems, food products and processing. Instruction will be delivered in independent student modules. A student must complete 12 modules to complete the course.

INDUSTRIAL TECHNOLOGY FLOWCHART



MATH

MATH LITERACY

Length of class: Year, 1 credit

Prerequisite: This class is by recommendation **ONLY**. It is not open for student sign-up. Students will be assigned by a Math instructor or the Special Education Co-Coordinator at the High School.

Grade level: 9, 10, 11, 12

This course is designed to prepare students for success in Algebra Prep. The work assigned in the course is modified according to the needs of the students in the course. An emphasis is placed on basic skills using whole numbers, fractions, decimals and integers and the use of these skills in application problems. Students will also work with percents, measurement, unit analysis, probability and statistics.

Students can expect to:

- Be attentive and take notes during lectures
- Complete daily homework assignments
- Participate in class discussions
- Take quizzes and tests on a regular basis

Students will learn to:

- Read mathematics problems
- Develop problem solving skills
- Strengthen their arithmetic skills
- Gain confidence in doing mathematics

ALGEBRA PREP

Length of class: Year, 1 credit, students who fail 1st Sem, may need to drop the course

Prerequisite: This class is by recommendation **ONLY**

Grade level: 9, 10, 11, 12

Provides a foundation for Algebra 1. Topics include solving equations, graphing linear functions, solving systems of equations, polynomial simplifications, area, perimeter, introductory statistics, factoring and solving basic quadratic equations.

ALGEBRA 1

Length of class: Year, 1 credit

Prerequisite: Pre-Algebra (8th grade math), students who fail 1st Sem must drop the course

Grade level: 9, 10, 11, 12

The course covers solving linear and quadratic equations, graphing linear functions, factoring, simplifying rational expressions, solving rational equations and simplifying radicals. This course is required for graduation.

ALGEBRA 1 CPM

Length of class: Year, 1 credit, students who fail 1st Sem must drop the course.
Prerequisite: Pre-Algebra (8th grade math), students who fail 1st Sem must drop the course.
Grade level: 9, 10, 11, 12

This course covers the same topics as Algebra 1. The difference between this and Algebra 1 is the delivery of the instruction. CPM (College Preparatory Math) uses a variety of teaching methodologies, including lecture, class discussions, manipulatives, and structured study teams. During class, students are actively working on guided investigations, much like “math labs”, to develop mathematical concepts and problem solving. Teachers lecture regularly and summarize lessons based on observed needs of the students. Students must be willing to work in groups on a daily basis.

ALGEBRA 1 HONORS

Length of class: Year, 1 credit, students who fail 1st Sem must drop the course.
Prerequisite: Completion of "Honors" eighth grade mathematics with an A or a B, or other evidence of exceptional ability and the recommendation of their eighth grade mathematics teacher.
Grade level: 9

Similar to the content in Algebra 1 but with greater depth in the topics studied as well as additional topics at the discretion of the instructor. The class will also cover the material presented in a shorter amount of time than in Algebra 1.

INTERMEDIATE ALGEBRA

Length of class: Year, 1 credit, students who fail 1st Sem may need to drop the course.
Prerequisite: Algebra 1
Grade level: 10, 11, 12

This course is for the student who received a “low C” or “D” in 1st year Algebra. The intent of the course is to strengthen a student’s basic algebra and geometry skills in preparation for a geometry course, or provide an adequate algebra background to allow students to pursue technical training courses. A review of the 1st year algebra course will be followed by selected topics from geometry, 2nd year algebra and trigonometry concepts. The latter will be an intuitive introduction to topics in these courses with an emphasis on manipulative skills.

GEOMETRY

Length of class: Year, 1 credit, students who fail 1st Sem must drop the course.
Prerequisite: Algebra 1, (C or better advised)
Grade level: 10, 11, 12

This course provides students one of the best observations of the development of a structured mathematical system. By starting with a set of terms and a few accepted facts, a complete, logical set of relations is unfolded about points, lines, triangles quadrilaterals, or other polygonal regions. The student will become familiar with both the deductive process and the indirect proof method. These provide a person a fundamental problem solving approach and open the door to more critical thinking. While the main emphasis will be on plane geometry, the study of some solid geometry (3-dimensional relations) is included.

GEOMETRY IT

Length of class: Year, 1 credit (students who fail 1st Sem must drop the course)
Prerequisite: Algebra 1 (with C or better advised), Concurrent enrollment in an IT class for at least 1 semester of the year.
Grade level: 10, 11, 12

This course provides students one of the best observations of the development of a structured mathematical system. By starting with a set of terms and a few accepted facts, a complete, logical set of relations is unfolded about points, lines, triangles, quadrilaterals, or other polygonal regions. The student will become familiar with both the deductive process and the indirect proof method. These provide a person a fundamental problem solving approach and open the door to more critical thinking. While the main emphasis will be on plane geometry, the study of some solid geometry (3-dimensional) is included. This course is in the development phase of integrating Industrial Technology (IT) applications with Geometry concepts. The math teacher will work with the construction, woods, drafting, metals, automotive, and electronics teachers to relate topics between the classes.

ALGEBRA 2/TRIGONOMETRY

Length of class: Year, 1 credit, students who fail 1st Sem must drop the course.
Prerequisite: Algebra 1 and Geometry
Grade level: 10, 11, 12

2nd year Algebra will review many topics introduced in the 1st year course and pursue them in greater detail. The greater emphasis on the use of coordinate geometry and function notation complements the development of the logarithmic and trigonometric functions and their related properties.

Students will learn to:

- Utilize the fundamental operations in the real and complex number system.
- Solve linear and quadratic inequalities.
- Graph linear and quadratic functions.
- Solve linear, quadratic, simultaneous, radical, exponential, logarithmic and trigonometric equations.

ALGEBRA 2/TRIGONOMETRY HONORS

Length of class: Year, 1 credit, students who fail 1st Sem must drop the course.
Prerequisite: Completion of Algebra 1 Honors and Geometry and recommendation by Geometry teacher.
Grade level: 10, 11

Similar to the content in Algebra 2/Trigonometry but with greater depth in the topics studied as well as additional topics at the discretion of the Instructor. The class will also cover the material presented in a shorter amount of time than in Algebra 2/Trigonometry.

ALGEBRA 3

Length of class: Year, 1 credit, students who fail 1st Sem must drop the course.
 Prerequisite: Algebra 2/Trigonometry
 Grade level: 11, 12

2nd year algebra and trigonometry topics will be reviewed and utilized to develop further relations between algebra and geometry. This includes the study of conic sections with transformations and relations, the study of sequences and series, probability, and the study of vectors.

Students will learn to:

- Use trigonometry relations, find roots and powers of numbers
- Recognize the equations of various conic sections
- Work with sequences and series
- Use proof by induction
- Solve higher degree equations

INTRODUCTORY ALGEBRA 098

Length of class: Sem, ½ credit; possibly year long if proficiency is not demonstrated
 Prerequisite: ACT Score of 21 or COMPASS Score of 0-45 AND Instructor permission only
 Grade level: 12

Introductory Algebra initiates the development in students' ability to organize thought processes and systematically solve problems while preparing students for studies in other courses. Course emphasis includes manipulation of variables, exponential applications, introduction to and factoring of polynomials, solving equations, and radicals. Introductory Algebra emphasizes systems of equations, determinants, systems of inequalities, rational expressions, radical expressions, complex numbers, quadratic equations, and exponential and logarithmic functions.

COLLEGE ALGEBRA 121

Length of class: Sem, ½ credit
 Prerequisite: ACT Score of 23 or COMPASS Score of 52-65 AND Instructor permission only
 Grade level: 12

This course presents concepts, principles and methods of college-level algebra. Topics to be covered include polynomial, rational, radical, exponential, and logarithmic functions and their graphs, and real and complex numbers. This course is transferable and is designed to satisfy the general education requirements for graduation from colleges and universities within the Montana University System.

ANALYSIS

Length of class: Year, 1 credit, students who fail 1st Sem must drop the course.
 Prerequisite: Algebra 2/Trigonometry H, Algebra 2/Trigonometry, or Algebra 3, and teacher recommendation.
 Grade level: 11, 12

These courses inter-relate the previous mathematics training, algebra, geometry, and trigonometry. These relationships lead to the development of calculus. Theory and application of differential calculus topics will be pursued.

HONORS STATISTICS (Dual Credit)

Length of class: Year, 1 credit, student who fail 1st Sem must drop the course.
 Prerequisite: Algebra 2/Trigonometry
 Grade level: 11, 12

The purpose of this course is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: exploring data, planning a study, anticipating patterns and statistical inference. Statistics is a dual enrollment class. Students may opt to take this for both high school and college credit, with college credit granted by MSU-COT. A student-paid fee is involved for the dual credit and for the AP test, if taken.

Students will learn to:

- Observe patterns and departures from patterns through data analysis
- Produce models using probability and simulation
- Decide what and how to measure data involved in a well-planned study
- Select appropriate models for use in statistical inference

AP CALCULUS

Length of class: Year, 1 credit
 Prerequisite: Algebra 2/Trigonometry H, Algebra 3, or Analysis, and teacher recommendation.
 Grade level: 12

The AP Calculus class should consist of a full academic year of calculus and related topics. These topics should fall under the headings of:

1. Topics from elementary functions. These topics will be about polynomials, trigonometric, and logarithmic functions. Each will be covered in terms of basic definitions, graphing, solving related equations, inverses, periodicity, etc.

College credit is available for those who successfully complete the AP Calculus exam at the student's expense. Students who take this course are required to take the AP Test.

2. Topics from differential calculus. These topics will be finding derivatives of all elementary functions, rules for finding derivatives, problems relating to slope, tangents, extreme values, related rates, curve sketching, and the mean values relationship.

3. Topics from integral calculus. These topics will consist of finding anti derivatives, defining and using definite integrals, fundamental theorems of calculus, various techniques of integration, application of integration as to area, volume, and other physical properties.

SURVEY OF MATH

Length: Year, 1 credit
 Prerequisite: Algebra I; Intermediate Algebra & Geometry recommended
 Grade level: 12

Recommendation by a math teacher is REQUIRED for enrollment in this course. If student's have a question about this they should talk with their current math teacher or a past math teacher. This is a pilot course intended for seniors needing a third math credit. Due to the fact that it is a pilot course materials change from year to year. Topics studied include personal finance, probability, statistics, applied geometry, and various algebra concepts. Students will at times study current issues taking place in our world and the mathematics involved with those issues.

APPLIED MATHEMATICS

Length of class: Year, 1 credit, students who fail the 1st Sem may continue with 2ndSem, but will receive credit only for the semester(s) passed.
Prerequisite: Pre-Algebra; teacher recommendation
Grade level: 11, 12 (Senior status preferred)

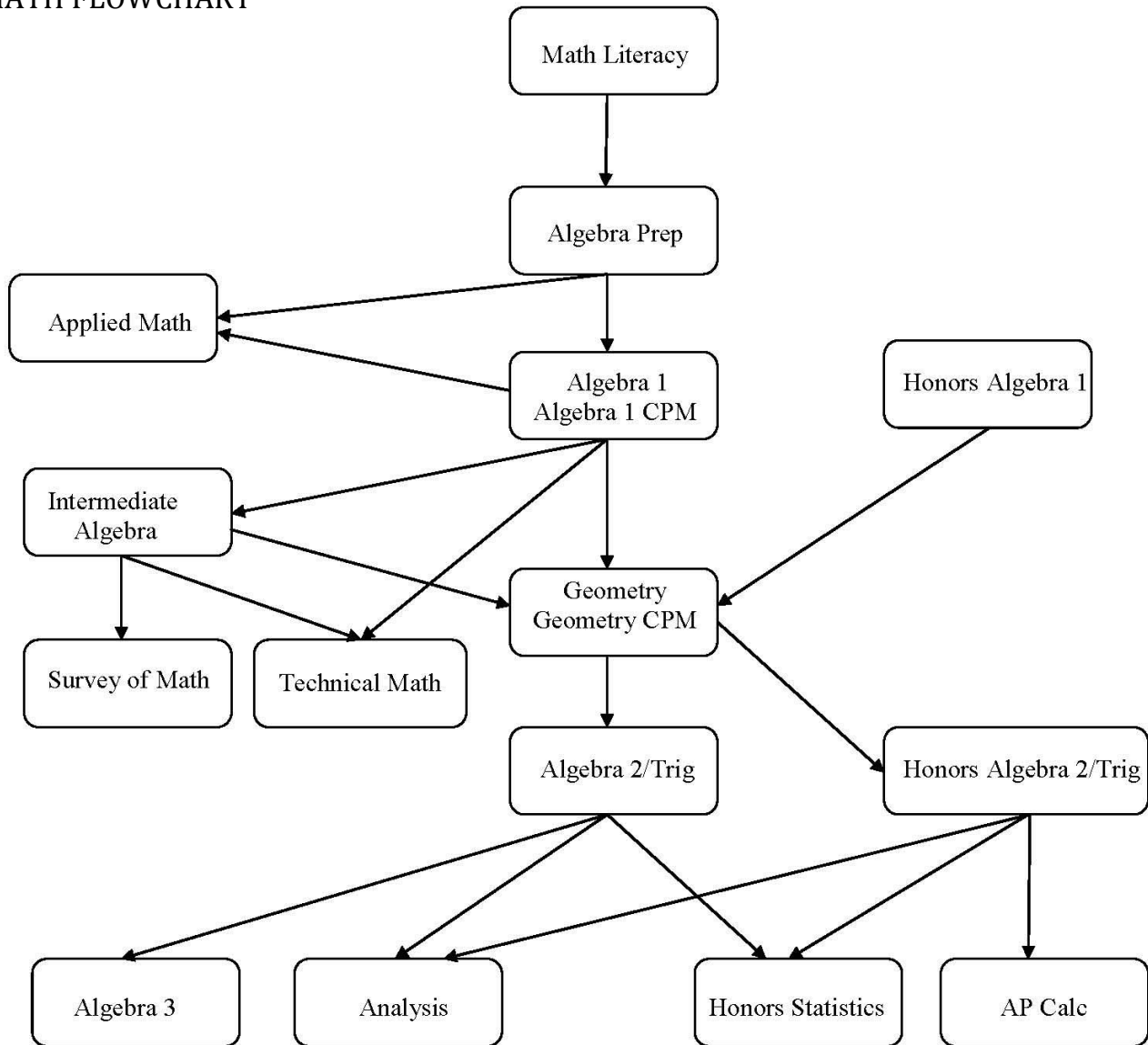
The course begins with a general review of computational skills with whole numbers, integers, fractions, decimals, and percentage. These skills are then applied to the study of different number bases, consumer related application, introductory algebra and geometry topics, and elementary statistical applications.

TECHNICAL MATH (Dual Credit)

Length of class: Year, 1 credit
Prerequisite: Completion of 2 math courses at CMR, including Algebra I
Grade Level: 11, 12

Students must be enrolled in an Industrial Tech class at the same time as Technical Math. This course will not help students to succeed in other math courses at CMR and is not recommended for those who are capable of taking higher level math courses. This course is designed for those interested in pursuing a technical or vocational career or degree after high school or who have an interest in applied technical math topics. Topics include fractions, decimals, ratios, proportions, formulas and word problems. Areas studied are metric and American measurement systems, linear equations, developing applied skills in practical geometry, solid figures, and basic trigonometry. There will be extensive use of word problems with trades based applications. Students may enroll and earn credit from MSUGF-College of Technology. However, this course will not count for a degree program at MSU College of Technology; it will only count for IT certifications.

MATH FLOWCHART



Classes that require special placement by the Mathematics or Special Education Department

- Math Literacy
- Algebra Prep
- Survey of Mathematics
- Applied Mathematics
- Technical Mathematics

Read Course Description Book carefully before placing students in a class and be sure to follow Math Recommendations. If a student disagrees with their Math Recommendation they must resolve that issue with their Mathematics Teacher.

MUSIC

GUITAR 101

Length of class: Year, 1 credit
 Prerequisite: None
 Grade level: 9, 10, 11, 12

Do you want music to be a part of your school day? This music course will introduce you to the fundamentals of music, using the guitar as the main method of delivery. Major concepts covered will include music fundamentals, world music and culture, composition and songwriting. Students who are enrolled in band, choir or orchestra are welcome to enroll in this class as well; however, students who drop a performance class (band, choir, and orchestra) without permission from their instructor will not be admitted into this class. Fine art credit will be earned.

MUSIC THEORY (HONORS CLASS)

Length of class: Year, 1 credit
 Prerequisite: One year of music study in a performing ensemble or instructor permission.
 Grade level: 10 (with instructor approval), 11, 12

An introduction to music theory through the study of music history. Music Theory is not listed as an Honors Class, but it carries honors distinction for graduation and transcript purposes. Those taking the class may opt to take the AP Theory test.

CHOIRS

CHANSON WOMEN'S CHOIR

Length of class: Year, 1 credit
 Prerequisite: SELECTION BY DIRECTOR THROUGH AUDITION PROCESS.
 Grade level: 9

This choir of female singers will prepare a variety of music. Development of skills will enable students to become competent and sensitive performing musicians. Participation in all scheduled public performances is required.

CONCERT CHOIR

Length of class: Year, 1 credit
 Prerequisite: SELECTION BY DIRECTOR THROUGH AUDITION PROCESS.
 Grade level: 9,10

This is a mixed choir. Singers will prepare a variety of music. Participation in scheduled public performances is required.

MEN'S CHOIR

Length of class: Year, 1 credit
Prerequisite: SELECTION BY DIRECTOR THROUGH AUDITION PROCESS.
Grade level: 9

This choir of male singers will prepare a variety of music. Development of skills will enable students to become competent and sensitive performing musicians. Participation in all scheduled public performances is required.

CHARLIE'S GIRLS

Length of class: Year, 1 credit
Prerequisite: SELECTION BY DIRECTOR THROUGH AUDITION PROCESS.
Grade level: 10, 11, 12

This is a select choir of female singers. This choir performs frequently. Attendance is required for all public performances.

CHACONNE CHOIR

Length of class: Year, 1 credit
Prerequisite: SELECTION BY DIRECTOR THROUGH AUDITION PROCESS.
Grade level: 10, 11, 12

This is an all female choir that performs frequently. Attendance is required for all public performances.

CHANTEUR CHOIR

Length of class: Year, 1 credit
Prerequisite: SELECTION BY DIRECTOR THROUGH AUDITION PROCESS.
Grade level: 10, 11, 12

This is a highly select choir and demands are commensurate with the degree of ability. This choir is primarily for juniors and seniors with exceptional sophomores sometimes included for reasons of musical balance. Many performances require a personal commitment from the membership. Attendance is required for all public performances

RUSSELL AYRES

Length of class: Year, 1 credit
Prerequisite: SELECTION IS BY DIRECTOR THROUGH AUDITION PROCESS.
Grade level: 11, 12

Russell Ayres performs more than any other choral organization. Emphasis is on music for entertainment and includes pop, folk, madrigal, humorous, novelties, jazz, ballads, rock, and blues. Some choreography will be included. Student must make a commitment to take part in many performances and must participate in Chanteur Choir.

BANDS

MAVERICK BAND – INTERMEDIATE CONCERT BAND

Length of class: Year, 1 credit
Prerequisite: Previous band experience, at least at the beginning level, is necessary. Ability level commensurate with performance demands as DETERMINED BY THE INSTRUCTOR.
Grade level: 9

Maverick Band offers daily experiences to freshmen who are suited for intermediate level band performance. Basic musical fundamentals are thoroughly reviewed and developed with the aim of preparing each student for promotion to more advanced bands at CMR. Like all other bands at CMR, performances at concerts, festivals, and clinics are a regular part of the experience for members of the Maverick Band.

CHAPARRAL BAND – INTERMEDIATE CONCERT BAND

Length of class: Year, 1 credit
Prerequisite: Previous band experience, at least at the beginning level, is necessary. Ability level commensurate with performance demands as DETERMINED BY THE INSTRUCTOR.
Grade level: 9

Chaparral Band offers daily experiences to freshmen who are suited for intermediate level band performance. Basic musical fundamentals are thoroughly reviewed and developed with the aim of preparing each student for promotion to more advanced bands at CMR. Like all other bands at CMR, performances at concerts, festivals, and clinics are a regular part of the experience for members of the Chaparral Band.

PERCUSSION ENSEMBLE

Length of class: Year, 1 credit
Prerequisite: Open only to percussion students with previous experience or with permission of the director.
Grade level: 9, 10, 11, 12

This class will daily explore all areas of percussion including, snare drum, mallets, timpani, auxiliary percussion and drum set. Various types of music including marching, concert and percussion ensemble will be explored each year. Students in this class will provide percussion for Maverick Band during the year.

RUSTLER BAND – ADVANCED-INTERMEDIATE CONCERT BAND

Length of class: Year, 1 credit
Prerequisite: Previous band experience beyond the intermediate level is necessary. Membership in the Rustler band is based on the player's ability level as DETERMINED BY THE INSTRUCTOR.
Grade level: 9, 10, 11, 12

Rustler Band offers daily experiences to freshmen, sophomores, juniors, and seniors who are suited for advanced-intermediate level band performance. Basic musical fundamentals are thoroughly reviewed and developed with the aim of preparing each student for future performance at more advanced levels. Performances at concerts, festivals, and clinics are a regular part of the experience for members of the Maverick Band. In addition, members of the Rustler Band are eligible for participation in marching and pep bands at CMR.

SYMPHONIC BAND – ADVANCED CONCERT BAND

Length of class: Year, 1 credit
Prerequisite: PLACEMENT BY AUDITION. Previous band experience beyond the advanced-intermediate level is required. Membership in the Symphonic band is based on the player's ability level as determined by the Instructor.
Grade level: 9, 10, 11, 12

Symphonic Band offers daily experiences to exceptional freshman, sophomore, junior, and senior musicians who are suited for the most advanced level of band performance. Numerous musical fundamentals are thoroughly reviewed and further developed in order to perform music of the highest possible caliber. Several performances at concerts, festivals, and clinics are a regular part of the experience for members of the Symphonic Band. In addition, members of the Symphonic Band are eligible for participation in marching and pep bands at CMR. The Symphonic Band is the touring band that experiences an annual three- to four-day performance tour in the spring. In the past, the CMR Symphonic Band has toured Washington, Idaho, Oregon, Montana, Wyoming, British Columbia and Alberta.

RUSSTONES

Length of class: Year, 1 credit
Prerequisite: Must be a member of major performing group (Choir, Band or Orchestra). Good standing academically. AUDITION WITH DIRECTOR.
Grade level: 9, 10, 11, 12

Study performance of various styles of jazz and rock music

ORCHESTRAS

STRING ENSEMBLE

Length of class: Year, 1 credit
Prerequisite: Previous string experience or the approval of the director. NO AUDITION NECESSARY for this group.
Grade level: 9, 10, 11, 12

String Ensemble offers daily experience rehearsing string orchestra music of all eras matching the playing ability of the group. Students will build on previously learned music skills and expand their knowledge of scales, bowing-styles, shifting and vibrato with the goal of sight-reading music of greater difficulty. In addition, students will be exposed to the basic vocabulary of music terms, symbols and note and key signature recognition. An understanding of music history and exposure to compositional techniques is also included. Students will be expected to perform outside of the school day at concerts, festivals and clinics put on by visiting guest artists.

CONCERT ORCHESTRA

Length of class: Year, 1 credit
Prerequisite: Open to string students with previous experience. STUDENTS MUST AUDITION with the director for this group and be academically eligible to participate.
Grade level: 9, 10, 11, 12

Concert Orchestra offers daily experience rehearsing string orchestra music of all eras matching the playing ability of the group. Students will build on previously learned music skills and expand their knowledge of scales, bowing-styles, shifting and vibrato with the goal of sight-reading music of greater difficulty. In addition, students will be exposed to a larger vocabulary of music terms, symbols and note and key signature recognition. An understanding of music history and exposure to compositional techniques is also included. Students will be expected to perform outside of the school day at concerts, festivals and clinics put on by visiting guest artists.

CHAMBER ORCHESTRA

Length of class: Year, 1 credit
Prerequisite: Open to string students with extensive previous experience and **ONLY BY AUDITION** with the director. Students must also be academically eligible.
Grade level: 10, 11, 12

Chamber Orchestra offers daily experience rehearsing string orchestra music of all eras matching the playing ability of the group. Students will build on previously learned music skills and expand their knowledge of scales, bowing-styles, shifting and vibrato with the goal of sight-reading music of greater difficulty. In addition, students will be exposed to: a significant symphony orchestra experience, and a larger vocabulary of music terms, symbols and note and key signature recognition, an understanding of music history and exposure to compositional techniques is also included. Students will be expected to perform outside of the school day at concerts, festivals and clinics put on by visiting guest artists. This class will also represent CMR at festivals and concerts outside of Great Falls.

PUBLICATIONS

INTRODUCTION TO JOURNALISM

Length of class: Year, 1 credit
 Prerequisite: None
 Grade level: 9, 10, 11 **(Grade 12 with special instructor permission only)**

Student must have an interest in media (print, social, and web-based media), current events, publishing and composition. Students should have an interest in applying for a staff position in one of the publication workshops. They must possess proficient computer skills such as keyboarding and word processing. Self-motivation, good time management skills and a positive attitude and work ethic are characteristics of candidates for this introduction to journalism course. Students will be accountable for building a portfolio of their work for evaluation. This course surveys all of the elements comprising the journalism and publishing process:

- Copy writing, editing and journalistic style
- Various genres, including sports, feature, news, opinion
- Reporting basics, including interviewing, note-taking, quotations and attribution
- Basic digital photography
- Graphic design and layout
- Desktop publishing emphasizing InDesign and Photoshop software
- Convergent online media
- Advertising sales
- Press law and ethics
- Journalism history
- Exposure to the work of professional journalists, photographers and designers
- Leadership and teamwork strategies

Students will account for their work by learning to build an e-portfolio. Students will have homework, quizzes, and a written semester final. During the semester, students may be given actual assignments that will appear in one of the three CMR publications. This course counts toward fulfillment of the Career Technical requirement.

NEWSPAPER WORKSHOP

Length of class: Year, 1 credit
 Prerequisite: Intro to Journalism, and/or Instructor Permission, 2.5 GPA recommended
 Grade level: 10, 11, 12 **(Grade 9 only with special permission from instructor)**

Students must have an interest in media (print, social and web-based), digital technology, current events, publishing and the composition processes and public relations and/or business practices. This workshop places students in individual staff positions with outlined job responsibilities based upon student applications. Editors and staff must publish several issues of the newspaper, "The Stampede" throughout the school year. Staff is also responsible for the production of the online news sites.

Student must demonstrate self-motivation by completing specific job tasks independently or within a group dynamic. They must understand the time commitment before and after school that is mandatory. Staff members must show an ability to articulate ideas and problem-solve. It is highly recommend for editors to try to schedule into two sequential periods.

Newspaper staff members demonstrate the following characteristics: observance of details, sincerity, the ability to critically listen to and articulate concepts, integrity, leadership, reliability, truthfulness, honesty, diversity and dedication to the objective of publishing the newspaper in a responsible and ethical manner. This course fulfills the Career Technical requirement. Students will account for their work by building an e-portfolio, and they will participate in a semester exit interview.

YEARBOOK WORKSHOP

Length of class: Year, 1 credit
 Prerequisite: Introduction to Journalism and/or Instructor permission, 2, 5 GPA recommended
 Grade level: 10, 11, 12 **(Grade 9 only with special permission from Instructor)**

Students must have an interest in the people and events of CMR. Students must have an interest in convergent media (print, social, and web-based media), digital technology, current events, publishing and composition processes, public relations, and/or business practices. This workshop places students in individual staff positions with outlined job responsibilities based upon student applications. Editors and staff must meet, with no hesitation, the six plant deadlines set by the professional yearbook company. This results in the mandatory distribution of "The Russellog" in May.

Students must demonstrate self-motivation by completing specific job tasks independently or within a group dynamic. They must understand the time commitment of before and after school time that is mandatory. Staff members must show an ability to articulate ideas and problem-solve. It is highly recommended that editors schedule into two sequential periods.

Yearbook staff members must demonstrate the following characteristics: observance of details, sincerity, the ability to critically listen to and articulate concepts, integrity, leadership, reliability, truthfulness, honesty, diversity and dedication to the objective of publishing the yearbook in a financially sound, responsible, and ethical manner. Students will account for their work by building an e-portfolio, and they will have a semester exit interview. This course fulfills the Career Technical requirement.

RUSTLERNEWS.COM WORKSHOP

Length of class: Year, 1 credit
 Prerequisite: Introduction to Journalism, Multi-media, and/or Instructor Permission
 Grade level: 10, 11, 12 **(Grade 9 only with special permission from Instructor)**

This course is designed for students whose interest lies primarily in photojournalism, videography, and online production. Students must have an interest in web-based media, digital technology, school events, publishing, the composition processes and digital photography. This workshop places students in individual staff positions with outlined job responsibilities based upon student applications. Staff will be responsible for taking photographs of school and community events for both the newspaper and yearbook – as well as for online slideshows. Students will shoot and post videos online, as well as create videos to accompany articles published in the Stampede. Students must publish regular updates to rustlernews.com throughout the school year. These updates may include blogs, podcasts, photography, video and all elements necessary to keep a 24/7 real-time publication viable.

Students must demonstrate self-motivation by completing specific job tasks independently or within a group dynamic. They must understand the time commitment before and after school that is mandatory. Staff members must show an ability to articulate ideas and problem solve. Online newspaper staff members must demonstrate these characteristics: observance of details, sincerity, the ability to critically listen to and articulate concepts, integrity, leadership, reliability, truthfulness, honesty, diversity and

dedication to the objective of publishing the online newspaper in a responsible and ethical manner. This course fulfills the Career Technical requirement.

PUBLICATIONS INDEPENDENT STUDY – JOURNALISM WORKSHOP

Length of Class: Semester, ½ credit, Semester 1 and 2, or Year, 1 credit

Prerequisite: Newspaper, Yearbook, or Online Editor position

Grade Level: 11, 12 (Newspaper or Yearbook editors only)

Students must be an editor of the Russellog, Stampede, or online publication. Independent Study is primarily designed for those editors who would like to take a second hour of journalism.

Students will work on layout, editing, writing, interviewing, and business functions during this independent study period. The independent study is designed to complement the work the editors accomplish in their regular journalism class. The independent study is not meant to replace the regular class period. Self-motivation, good time management and planning abilities, a positive attitude, and work ethic are characteristics of candidates for this independent study.

SCIENCE

FOUNDATIONS OF SCIENCE 1-2

Length of class: Year, 1 credit
 Prerequisite: None
 Grade level: 9

Foundations of Science is offered in the science department to allow the student to develop a sound science background. This course will include a study of introductory physics, chemistry, earth and space science.

BIOLOGY 1-2

Length of class: Year, 1 credit, students who fail 1st Sem may continue 2nd Sem
 Prerequisite: Foundations of Science 1-2
 Grade level: 10

Biology will cover major areas of the Living World with special emphasis on studies of ecology, cells, genetics, evolution, and mammalian systems.

BIOLOGY 3-4

Length of class: Year, 1 credit, students who fail 1st Sem must drop the course
 Prerequisite: Successful completion of Foundations of Science 1-2 and Biology 1-2
 Grade level: 11, 12
 Fee: \$10.00

Students will investigate classification, microorganisms, fungi, invertebrates, vertebrates, and plants through many different dissections and other various lab activities.

ADVANCED PLACEMENT (AP) BIOLOGY

Length of class: Year, 1 credit, students who fail 1st Sem must drop the course
 Prerequisite: **Bio 1-2 AND Chemistry (Honors Preferred), or current enrollment in Chemistry. Any exceptions to these prerequisites will require Instructor permission.**
 Grade level: 11, 12 (Seniors will be given preference).

The course covers a vast amount of material and thus makes heavy demands on even the best organized student. Emphasis on three main areas of biology: 25% on molecules and cells, 25% on genetics and evolution, and 50% on organisms and populations. Laboratory work includes a minimum of 10 labs, and selected articles and books will be assigned. At the end of the year the students will have an opportunity to take a standardized test for advanced placement and/or college credit.

ENVIRONMENTAL SCIENCE

Length of class: Year, 1 credit
 Prerequisite: Successful completion of Foundations of Science, Biology 1-2, Algebra 1-2 (or concurrent enrollment), Chemistry (or concurrent enrollment), any 3rd year science course (or concurrent enrollment), or instructor permission.
 Grade level: 11, 12

Environmental Science is a Lab/inquiry based science class designed so students can explore and research the interactive relationships in the natural world. Areas of focus will be Earth systems and the living world, population concepts, land and water use, energy resources and consumption, pollution, and global change. A large scale STEM research project is expected from each student which will be presented at a local, regional or state science competition.

HONORS HUMAN BIOLOGY 5-6

Length of class:	Year, 1 credit
Prerequisite:	Intro to Health Occupations (may be taken concurrently), Biology 1-2, Chemistry (may be taken concurrently)
Grade level:	11, 12
Materials Fee:	\$25

This honors level laboratory-based course introduces student to the structure and function of the human body. Topics such as the fundamental principles in organic and inorganic chemistry, cellular metabolism, cellular anatomy, cellular biology and histology will be covered and subsequently applied to the physiology of the body as a whole. Systems to be covered in this course include integumentary, digestive, circulatory, lymphatic, immune, respiratory, urinary, nervous, musculoskeletal, endocrine and reproductive. Dissection is a component of this course. As such, those with an aversion to dissection should consider taking a different course.

GENERAL CHEMISTRY

Length of class:	Year, 1 credit, Students who fail 1st Sem must drop the course.
Prerequisite:	Successful completion of Foundations of Science and Biology 1-2 (must pass both). <i>Note: this class <u>does not</u> meet the requirements needed to take a second year of chemistry</i>
Grade level:	11, 12 (10 with permission of instructor).

An introduction to modern chemical principles designed for students needing assistance with math. Topics include: atomic structure, chemical bonding, chemical reactions, and acid-base systems. One of the major purposes of the course is to show how these concepts relate to the world around us. Laboratory experiments will be used to support lecture materials. This course does not include as much emphasis upon chemical theory as does the Honors Chemistry course.

HONORS CHEMISTRY

Length of class:	Year, 1 credit, students who fail 1st Sem must drop the course.
Prerequisite:	Successful completion of Foundations of Science, Biology 1-2, and Algebra 1-2, all with a grade of "C" or better.
Grade level:	11, 12 (10 with instructor permission).

This course is a rigorous introduction to modern chemical principles for those with a strong math background planning to continue in science and related fields. Topics include: atomic theory and structure, periodic properties, mole relationships, ionic and covalent bonding, chemical reactions of everyday life, behavior of gases, law of conservation, nuclear reactions, energy, chemical change, chemical equilibrium, acids and basis, and oxidation - reduction reactions. Laboratory oriented with emphasis upon understanding why and how. This course incorporates more chemical theory and mathematical analysis than the General Chemistry course.

INORGANIC CHEMISTRY

Length of class: 1st Semester **ONLY**, ½ credit
Prerequisite: One year of Honors Chem (or equivalent) and Algebra 1-2, both with at least a "C" grade. General Chemistry will NOT meet requirements.
Grade level: 11, 12

Review of major chemical principles of equations, moles and stoichiometry. Students will study kinetics, equilibrium, including gaseous, acid/base and solution equilibria, thermodynamics (enthalpy, entropy, and Gibbs free energy), oxidation-reduction and electrochemistry. Students will learn advanced laboratory procedures and techniques.

ORGANIC CHEMISTRY

Length of class: 2nd semester **ONLY**, ½ credit
Prerequisite: One year of Honors Chem (or equivalent) and Algebra 1, both with at least a "C" grade. General Chemistry will NOT meet requirements
Grade level: 11, 12

An introduction to the chemistry of carbon based compounds. Topics presented are bonding and isomerism, IUPAC nomenclature, alkenes, alkanes, aromatic compounds, types of organic reactions, reaction mechanisms, stereoisomers and polymers. This course is particularly helpful for students planning a career in chemistry, biology, medical fields, or material sciences.

GENERAL PHYSICS 1-2

Length of class: Year, 1 credit, students who fail 1st Sem must drop the course.
Prerequisite: Foundations of Science 1-2 and Algebra 1
Grade level: 11, 12

General Physics is an inquiry based approach to physics. We believe that this will best prepare students for college and careers in the liberal arts. The course is very hands on and students can expect to write ten labs per semester. This class is designed for college bound students interested in Liberal Arts. This course will include a general study of forces, motion, gravitation, energy, waves, light, electricity and magnetism. If time permits, additional topics relating to nuclear applications and quantum theory will be covered.

HONORS PHYSICS (Dual Credit)

Length of class: Year, 1 credit, students who fail 1st Sem must drop the course.
Prerequisite: Foundations of Science 1-2, Algebra 1 and Algebra 2/Trig with at least a "C" grade. Can take Alg 2/Trig concurrently.
Grade level: 11, 12

This course is offered as a Dual Credit class through Montana Tech. Honors Physics is an inquiry based approach to physics. We believe that this will best prepare students for college and careers in science and engineering. The course is very hands on and students can expect to write ten labs per semester. This class is designed for college bound students interested in Math, Science or Engineering. This course will include a general study of forces, motion, gravitation, energy, waves, electricity, magnetism and relativity.

APPLIED PHYSICS 1-2

Length of class: Year, 1 credit:
Prerequisite: Foundations of Science 1-2 and Algebra Prep or Instructor permission
Grade level: 10, 11, 12

Applied Physics is an inquiry based approach to science that will help prepare students for vocational schools and the workplace. This is best done through a project based class. Students can expect to build bridges, boats, wings, bottle rockets, and closely examine alternative energy sources such as solar panels and wind generators. Students will be given the background information in Newtonian Mechanics, Fluid Dynamics and Basic Electricity to understand good design choices with their projects. They will also be given access to computer and programs such as Microsoft Word and Excel to communicate their findings with others.

INTRO TO ENGINEERING (Dual Credit)

Length of class: Year, 1 credit
Prerequisite: Algebra II/Trig (or concurrent enrollment) , any 3rd year science course (or concurrent enrollment), or instructor permission
Grade level: 11, 12

This class is offered as a Dual Credit class through Montana Tech. This class is designed for students that are interested in a career in engineering, construction, business, or design. The course will include a general study of the relationships between math, science, business, the arts, and engineering. Students can expect to be introduced to engineering communication, technical writing, ethics, estimation, dimensional analysis, AutoCAD, and Excel. Students will also complete several projects working with ballistic pendulums, mathematical modeling, fluid dynamics, and bridges. The curriculum meets current ABET (Accreditation Board of Engineering and Technology) standards. Students that have taken any of the following courses: advanced math, physics, drafting, metals, woods, business, and the arts are encouraged to take this course.

GEOLOGY 1-2

Length of class: Year, 1 credit, students who fail 1st Sem must drop the course. Students may add the course 2nd Sem with Instructor permission.
Prerequisite: Foundations of Science 1-2 with a grade of "C" or better or with instructor permission
Grade level: 10, 11, 12 -- (Sophomore students must be concurrently enrolled in Biology 1-2)

This is an introductory course in geology that builds upon principles of earth sciences learned in Foundations of Science. Rocks, minerals, maps, weathering and erosion, plate tectonics, volcanism, earthquakes, and geological time are some of the main subject areas. Emphasis will be on Montana Geology.

FORENSIC SCIENCE 1-2 (Dual Credit)

Length of class: Year, 1 credit (DUAL CREDIT), students who fail 1st Sem must drop course
Prerequisite: Successful completion of Foundations of Science 1-2 and Biology 1-2.
Grade level: 11, 12
Fee: \$15.00

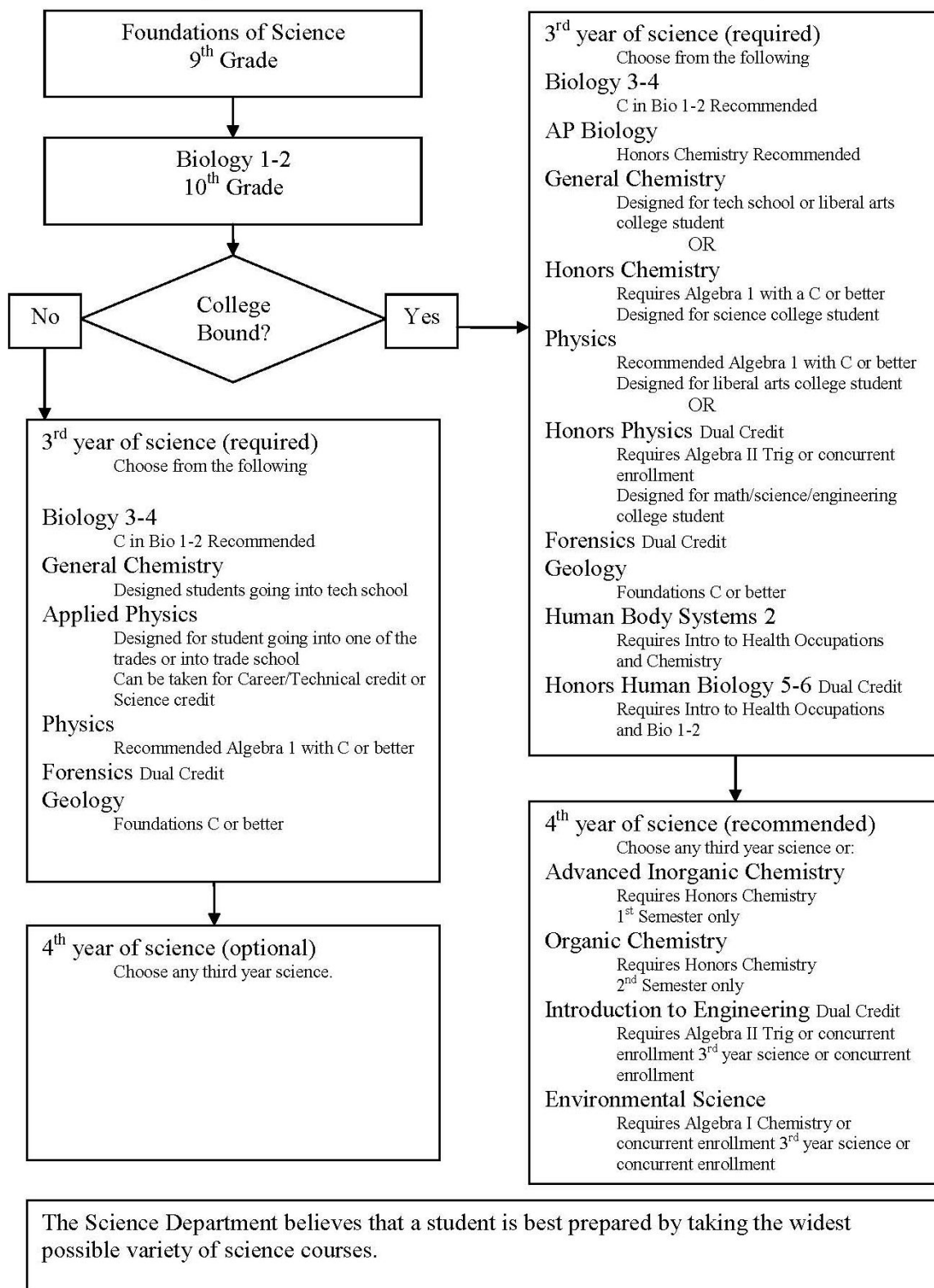
Forensic Science deals with the study of physical and/or chemical evidence left at the scene of a crime. This multidisciplinary project creates a link among Biology, Biotechnology, Chemistry and Physics. By applying these sciences, the forensic investigator can analyze a crime scene. The class teaches the students how to collect all clues and evidences and organize them in a way that explains events. This class also is intended to expose students to various laboratory skills commonly used during a forensic investigation. Students will utilize sciences and technology in the investigation process. Students will enjoy participating in this class if they are interested in Chemistry, Molecular Biology or Physics in a concentrated, hands-on setting. Students must maintain an accurate laboratory notebook and be highly motivated and dedicated to science.

HUMAN BODY SYSTEMS 2

Length of class: Year, 1 credit
Prerequisite: Intro to Health Occupations, (may be taken concurrently), Chemistry recommended
Grade level: 11, 12

Essential principles of human anatomy and physiology are presented through lecture and lab components, including basic chemistry, cell and tissue studies, and an overview of all the body systems. This course is intended to serve the needs as an introduction anatomy course for the allied health field.

Science Dept Flow Chart



SOCIAL STUDIES

ESSENTIALS OF WORLD HISTORY

Length of class: Year, 1 credit
Prerequisite: None
Grade level: 9

Students will study a year of world history from Renaissance to modern times, which will include cultural, political, military, and economic factors in the development of world cultures and their impact on modern society. The year is divided into units covering history in Europe, Asia, Africa and the Americas, including some emphasis on geography.

MONTANA GOVERNMENT STUDIES

Length of class: Semester, ½ credit, 1st and 2nd Sem
Prerequisite: None
Grade level: 10, 11, 12

This one semester required class will cover the history and growth of Montana and its state government. A specific focus will be given to tribal government and to the unique status of the tribes as provided by the U.S. Constitution, Treaties and Federal Laws.

U.S. HISTORY - COLONIAL ERA TO 1914

Length of class: 1st Semester, ½ credit
Prerequisite: None
Grade level: 11, 12

This course may be available on-line based on enrollment, see page 7 for details.

This course will cover historical events in American history beginning with Colonial America and moving through the 19th Century. Major topics will include the French and Indian War, the Revolution, the Constitution, Western Expansion and Slavery, the Civil War and Reconstruction, Western Expansion, Industrialization and Imperialism, and the Progressive Era. The goal of this class is for students to gain an understanding of the beginnings of our nation and how those events have shaped our country.

U.S. HISTORY - 1914 TO THE MODERN ERA

Length of class: 2nd Semester, ½ credit
Prerequisite: None
Grade level: 11, 12

This course may be available on-line based on enrollment, see page 7 for details.

This course will continue the development of the America. Major topics will include World War I, the Depression, World War II, the Cold War, The Turbulent 60's, Vietnam, Watergate and issues of recent history. Students will gain an understanding of U.S. development as a world power and how world events have impacted the United States.

AP U. S. HISTORY (Dual Credit)

Length of class:	Year, 1 credit
Prerequisite:	Students are expected to take the AP test. Seniors may take the class as a History elective.
Grade level:	11

This class is a dual enrollment class. Students may opt to take this for both high school and college credit, with 3 semester credits granted by University of Great Falls. It also may be taken as preparation for the AP test. Students who choose the AP option must take the AP test. Students who choose the college credit option may still take the AP test if they choose. Both the dual credit and AP options require a fee to be paid by the student. The course will cover the span of American history from the discovery of America up to the present time. The history of the nation will be examined from the sociological, political, economic, and foreign affairs viewpoints. Major topics covered will be: Colonial Development, America's War for Independence, Constitution and New Republic, Early Federal Period, Economic Expansion, Westward Expansion, Sectionalism, Civil War Era, World War I, Depression of 1930's, World War II, Post World War II Era, Vietnam and Nixon, and issues of recent history.

GOVERNMENT

Length of class:	Semester, ½ credit, 1st and 2nd Sem
Prerequisite:	None
Grade level:	12

Government is designed to help seniors understand the workings of all levels of government. It contains units covering the foundation of American government, the Constitution, interest groups, political parties and national government structures. Related topics will include current political events and some information about comparative political systems.

AP GOVERNMENT (Dual Credit)

Length of class:	Year, 1 credit (1 st semester counts as an Elective Credit, 2 nd semester fulfills the Government graduation requirement. Both semesters are required for enrollment in this course.)
Prerequisite:	Students are expected to take the AP test.
Grade level:	12

This class is a dual enrollment class. Students may opt to take this for both high school and 3 semester credits, with college credits granted by MSU-COT. It also may be taken as preparation for the AP test. Students who choose the AP option must take the AP test. Students who choose the college credit option may still take the AP test if they choose. Both the dual credit and AP options require a fee to be paid by the student. Government is designed to help seniors understand the workings of all levels of government. It contains units covering the foundation of American government, the Constitution, interest groups, political parties and national government structures. Related topics will include current political events and some information about comparative political systems. Students in AP Government can expect to write papers regularly and should expect a far more rigorous course than a regular government class. Students are expected to purchase the text and complete reading the text over the summer. *If students decide to drop this class after 1st semester, they will have to enroll in a 2nd semester regular Government class to fulfill their graduation requirement.*

ECONOMICS 1

Length of class: 1st Semester **ONLY**, ½ credit
Prerequisite: None
Grade level: 11 (with instructor permission), 12

This class will explore some core principles of economics in an attempt to better understand individual choice and behavior and how that relates to the larger world we live in. Using a “less is more” approach, students will apply an “economic way of thinking” to examine not only economic, but also social, political and historic issues in search of greater understanding and clarity. Only students who are willing to analyze and discuss material at a high level should enroll. This class will go a long way towards preparing students to take the AP Microeconomics exam in May, but that will not be the sole purpose of the class.

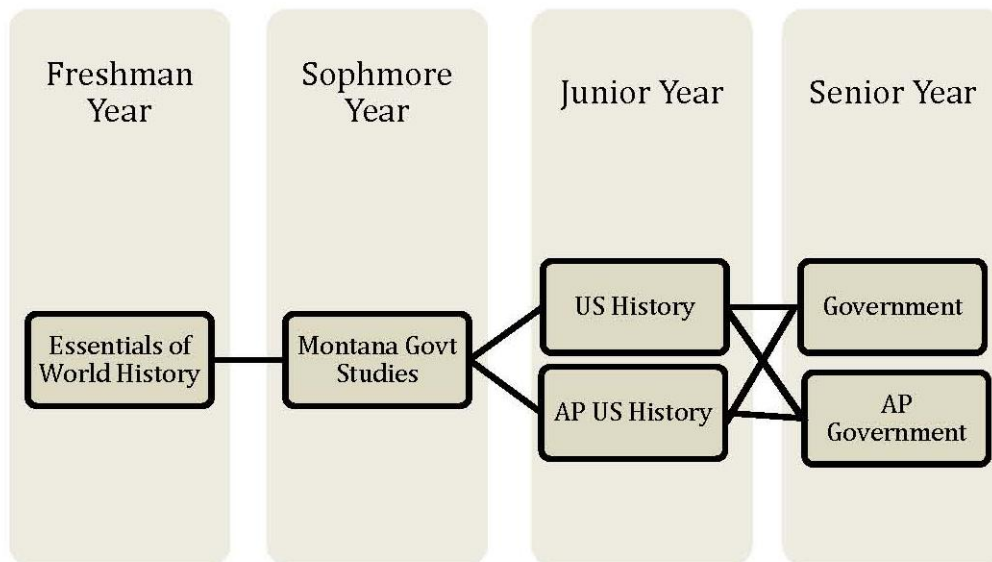
ECONOMICS 2

Length of class: 2nd Semester **ONLY**, ½ credit
Prerequisite: Economics 1
Grade level: 11 (with instructor permission), 12

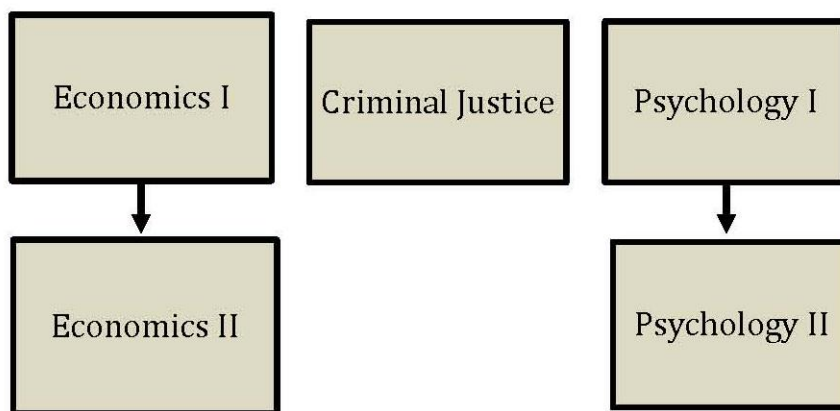
This class will compliment Economics 1, but will focus more on economic concepts and forces that shape whole systems or economies. Students will examine the factors that determine the economic success or failure of different countries and organizing systems. Only students who are willing to analyze and discuss material at a higher level should enroll. This class will go a long way towards preparing students to take the AP Macroeconomics exam in May, but that will not be the sole purpose of the class.

Social Studies

Required Classes



Electives



THEATRE ARTS & STAGECRAFT

INTRO THEATRE 1-2

Length of class: Year, 1 credit
 Prerequisite: None. Students need not take Theatre 1 to enter Theatre 2 at semester; however the open rehearsal style of Theatre 1 and 2 requires a student to be mature and self-disciplined in their preparation.
 Grade level: 9, 10, 11, 12

Improvisation acting, rehearsing, and production, stage terminology, theater history and dramatic literature. This course is an introduction to basic dramatic skills and an appreciation of theater.

INTERMEDIATE THEATRE 3-4

Length of class: Year, 1 credit
 Prerequisite: At least one semester of Theatre, "C" in previous drama courses, and recommendation of Drama instructor.
 Grade level: 10, 11, 12

Acting, film, dramatic literature, play production, improvisation, acting theory, and stage movement. Performing for and with children and participation in co-curricular presentations.

ADVANCED THEATRE 5-6/7-8

Length of class: Year, 1 credit:
 Prerequisite: At least two semesters of Theatre, "C" in previous drama courses and recommendation of Theatre instructor.
 Grade level: 11, 12

Advanced acting, lateral thinking, laboratory acting work (performance intensive), stage movement, improvisation, group problem solving, play production, auditioning, and resumes. Participation in co-curricular presentations.

STAGECRAFT DESIGN 1-2 - DESIGN FOR THE THEATER

Length of class: Year, 1 credit Fine Art or Career Technical credit.
 Prerequisite: Experience in art, sewing, or drama helpful but not necessary.
 Grade level: 10, 11, 12 (**Instructor permission only, 25 student max**)

Instruction in the basic design fields related to the theater. This includes scenic, costume, makeup, property design and their applications. Students will learn stage terminology, construction methods, and production procedures and protocol. Class members are encouraged, but not required, to act as backstage crew (particularly in leadership positions) for department productions.

STAGECRAFT TECH I - TECHNICAL APPLICATIONS

Length of class: Year, 1 credit, may Fine Art or Career Technical credit.
 Prerequisite: Experience in woodworking, art, electronics, sewing, or drama helpful, but not necessary.
 Grade level: 10, 11, 12 (**Instructor permission only**)

Instruction in the basic methods of set construction and painting. This includes such things as stage terminology, construction methods, stage tools, painting techniques, and lighting. Students will also receive instruction in theatre management and maintenance. Class members are encouraged, but not required, to act as backstage and lighting crews for department productions.

STAGECRAFT TECH II

Length of class: Year, 1 credit, may be picked up at semester with Instructor's permission. Fine Art or Career Technical credit
 Prerequisite: Must have completed Stagecraft Tech 1-2 with a grade of "B" or better.
 Grade level: 11, 12 (**ONLY with permission of instructor for both grades**).

Stagecraft Tech students will be required to complete a minimum of 5 hours of work outside of class on class-related activities each semester. This will be done in special consultation with the instructor.

VIDEO PRODUCTION

Length of class: Semester, ½ credit
 Prerequisite: None
 Grade level: 9, 10, 11, 12

The class will provide the student an opportunity to explore the video making process from initial conception to audience review. The student will become acquainted with basic video technology to include film history, pre-production planning and storyboarding, camcorder operation, video and audio editing and the critical review of finished work. Students will also be introduced to the basics of Broadcast Journalism, from history to how a newsroom works, marketing, programming and modern ethical issues. Video cameras and editors are available for those students who do not own their own. This course counts toward completion of Fine Arts OR Career Technical credits.

VIDEO PRODUCTION II

Length of class: 2nd Semester **ONLY**, ½ credit
 Prerequisite: None
 Grade level: 9, 10, 11, 12

The class will provide the student an opportunity to expand the video making process and not only complete class projects, but originate a personal film as well as create Broadcast quality television stories. The student will receive instruction in selected film genre, directing for film, acting for film, screenwriting and technical areas like lighting and animation. Students will work on news programs that highlight issues and stories with CMR. Students will also work to create Video Announcements that will be broadcast to the school. Video cameras and editors are available for those students who do not own their own. This course counts toward completion of Fine Arts OR Career Technical credits.

WORLD LANGUAGES

In order to gain proficiency, students are encouraged to take two or more consecutive years of the language of their choice. It is strongly recommended to begin in grade nine so that the student has the option of pursuing the four-year program. ***Our language classes are not suited to native speakers.***

FRENCH 1-2 (1st Year)

Length of class: Year, 1 credit, must pass 1st Sem in order to continue 2nd Sem
 Prerequisite: Recommend a "C" average in English
 Grade level: 9, 10, 11, 12

Students who have below a "C" average in French 1 at the end of 1st semester could have difficulty being successful in French 2 during 2nd semester.

Attention is given to reading, writing, listening, and speaking in French with special emphasis on listening and speaking. Students will acquire these language skills through the use of storytelling. The class is intended to give the student a basis in good, grammatically correct, everyday French with emphasis on appropriate current expressions and vocabulary. In addition to storytelling, we will also use the "Discovering French" text.

FRENCH 3-4 (2nd Year)

Length of class: Year, 1 credit, must pass 1st Sem in order to continue 2nd Sem
 Prerequisite: French 1-2, recommend a "C" average in French 1-2
 Grade level: 9, 10, 11, 12

2nd year students will review all phases of the 1st year class and will continue to understand, speak, read and write French in greater depth. Students will continue to acquire language skills through story telling. Supplementary studies will include French civilization, selected readings in French and films in French time permitting. There is an emphasis on reading at this level. In addition to storytelling, we will also use the "Discovering French" text.

FRENCH 5-6 (3rd Year)

Length of class: Year, 1 credit, must pass 1st Sem in order to continue 2nd Sem
 Prerequisite: French 3-4, recommend a "B" average in French 3-4
 Grade level: 10, 11, 12

We will continue to use story telling in class. In addition, we will use "Discovery French Rouge." Attention will mostly be given to speaking French, but writing and listening activities will also be incorporated. Students should expect to read French books on a regular basis in class. Students will also do film studies. All activities in class will lead to more fluency in the French language.

FRENCH 7-8 (4th Year) and FRENCH 9-10 (5th Year)

Length of class:	Year, 1 credit, must pass 1st Sem with a "C" or better to continue with 2nd Sem
Prerequisite:	Recommend a "B" average in French 5-6 to take French 7-8, recommend a "B" average in French 7-8 to take French 9-10
Grade level:	11, 12 for French 7-8; 12 for French 9-10

Students continue to improve their communications skills in French through an emphasis on composition, conversation and reading selections. Students continue advanced study and review of grammar and vocabulary. The literature is geared towards the level of understanding and interest of the class. 5th year students will study with the 4th year class to achieve optimum interaction in the target language. 5th year students will also meet and exceed all the 4th year benchmarks.

GERMAN 1-2 (1st Year)

Length of class:	Year, 1 credit, must pass 1st Sem in order to continue 2nd Sem
Prerequisite:	Recommend a "C" average in English
Grade level:	9, 10, 11, 12

The primary goal is to help students develop proficiency in the four basic skills: listening, speaking, reading, and writing. At the same time, the class aims to increase the students' knowledge and appreciation of the diverse cultures of the countries where German is spoken. The emphasis is on communication with grammar and vocabulary presented in culturally authentic situations through storytelling.

GERMAN 3-4 (2nd Year)

Length of class:	Year, 1 credit, must pass 1st Sem in order to continue 2nd Sem
Prerequisite:	German 1-2, recommend a "C" average in German 1-2
Grade level:	9, 10, 11, 12

All phases - understanding, speaking, reading, and writing - are reviewed and continued in greater depth. Previously learned and new grammar and vocabulary are practiced in constant daily usage. Current events, music, media and other cultural information are integrated into the program through storytelling and Komm mit! textbook.

GERMAN 5-6 (3rd Year)

Length of class:	Year, 1 credit, must pass 1st Sem in order to continue 2nd Sem
Prerequisite:	German 3-4, recommend a "C" average in German 3-4
Grade level:	10, 11, 12

In the 3rd year of German, the students use and improve their knowledge of German through speaking, reading, and writing. The class explores the cultures of German-speaking countries through literature, art, history, news reports, and direct e-mail exchanges with German speaking students. Self-expression is encouraged through reports as well as class skits and projects. Journaling is done on a regular basis.

GERMAN 7-8 (4th Year)

Length of class:	Year, 1 credit
Prerequisite:	Recommend a "C" average in German 5-6 to take German 7-8, recommend a "C" average in German 7-8 to take German 9-10, recommend a "C" average to continue with 2nd semester.
Grade level:	11, 12

The 4th year of study offers the students the opportunity to expand their communication skills. Students will keep a journal to improve writing skills, increase vocabulary, and hone grammar usage. Individual projects are used extensively in areas of student interest.

SPANISH 1-2 (1st Year)

Length of class:	Year, 1 credit, must pass 1st Sem in order to continue 2nd Sem
Prerequisite:	Recommend a "C" average in English; recommend a "C" average in Spanish to continue to 2nd semester
Grade level:	9, 10, 11, 12

This course provides a basic study in Spanish, emphasizing listening comprehension, speaking, reading, and writing. In addition to the text, audio (both spoken and music), videos, and language games are used to make the language and culture more meaningful to the student. Students will also acquire language skills through story telling.

SPANISH 3-4 (2nd Year)

Length of class:	Year, 1 credit, must pass 1st Sem in order to continue 2nd Sem
Prerequisite:	Spanish 1-2, recommend a "C" average in Spanish 1-2, recommend a "C" average to continue 2nd Sem
Grade level:	9, 10, 11, 12

2nd year Spanish students build on the grammar and vocabulary taught in 1st year along with further studies of listening, speaking, reading and writing skills. Personal expression is encouraged through short paragraphs, skits, and oral presentations. There is an emphasis on reading and acquiring language through storytelling and the textbook.

SPANISH 5-6 (3rd Year)

Length of class:	Year, 1 credit, must pass 1st Sem in order to continue 2nd Sem
Prerequisite:	Spanish 3-4, recommend a "C" average in Spanish 3-4, recommend a "C" to continue 2nd Sem
Grade level:	10, 11, 12

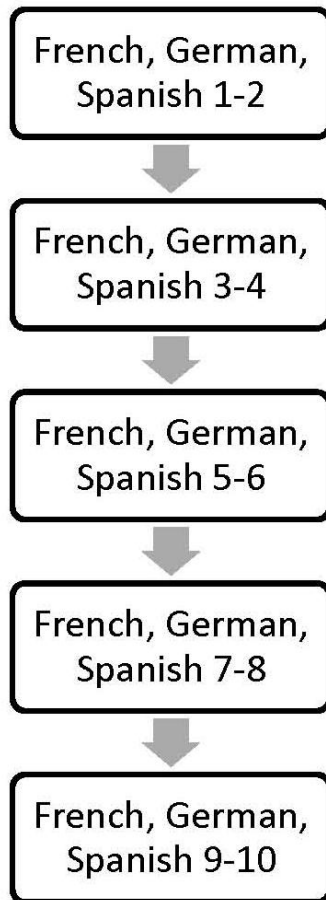
Students refine their communication skills in Spanish through a more advanced study and review of grammar and vocabulary. The emphasis is on oral communication in real-life situations and storytelling. More emphasis in reading comprehension is found in literary selections from original works in Spanish, textbook and/or novels adapted for a 3rd year class.

SPANISH 7-8 (4th Year) and SPANISH 9-10 (5th Year)

Length of class: Year, 1 credit, must pass 1st Sem in order to continue 2nd Sem
Prerequisite: Spanish 5-6, recommend a "C" average in Spanish 5-6 to take Spanish 7-8, recommend a "C" average in Spanish 7-8 to take Spanish 9-10
Grade level: 11, 12

Students polish their communication skills in Spanish through an emphasis on composition and reading selections. Students continue advanced study and review of grammar and vocabulary. The literature is geared towards the level of understanding and interests of the class. 5th year students will study with the 4th year class to achieve optimum interaction in the target language. 5th year students will also meet and exceed all the 4th year benchmarks.

WORLD LANGUAGES FLOW CHART



INDEX

A

Access, 12
 ACCOUNTING, 12
 Acting, 67
ADVANCED HEALTH SCIENCE, 31
 ADVANCED PLACEMENT /SENIOR STUDIO, 10
 ADVANCED PLACEMENT PROGRAM, 6
 AEROBICS, 27
 AG LEADERSHIP, 39
 AGRICULTURE I, 39
 AGRICULTURE II, 39
 AGRICULTURE III, 40
 AGRICULTURE IV, 40
 ALGEBRA 1, 42
 ALGEBRA 1 CPM, 43
 ALGEBRA 1 HONORS, 43
 ALGEBRA 2/TRIGONOMETRY, 44
 ALGEBRA 2/TRIGONOMETRY HONORS, 44
 ALGEBRA III, 45
 ALGEBRA PREP, 42
 American government, 64
 American history, 63, 64
 ANALYSIS, 45
 anatomy, 58, 61
 AP BIOLOGY, 57
 AP CALCULUS, 46
 AP ENGLISH 7-8, 21
 AP GOVERNMENT, 64
 AP U. S. HISTORY, 64
 APPLIED DRAFTING, 38
 APPLIED ELECTRONICS, 34
 APPLIED MATHEMATICS, 47
 APPLIED PHYSICS, 38, 60
 architectural designing, 10
 ARCHITECTURAL DRAFTING, 38
 ARGUMENTATION and DEBATE, 17
 art, 9, 10, 11, 70
 ART, 9
 ART WORKSHOP 1-2, 9
 ASE certification, 35
 ATHLETIC TRAINING, 30
 AutoCAD, 37, 38
 Automated Accounting, 12
 AUTOMOTIVE TECHNOLOGY, 35
 AUTOMOTIVE TECHNOLOGY ASE, 35

B

BANDS, 51
 banking, 14
 BIOLOGY 1-2, 57

BIOLOGY 3-4, 57
 body systems, 61
 bookkeeping, 12
 budgeting, 14
 BUSINESS INDEPENDENT STUDY, 14
 BUSINESS, 12
 Business Independent Study, 13
 BUSINESS LAW, 12
 business plan, 13

C

career, 13
 CAREER/TECHNICAL OPTIONS, 4
 ceramics, 10
 CHACONNE CHOIR, 50
 CHAMBER ORCHESTRA, 53
 CHANSON WOMEN'S CHOIR, 49
 CHANTEUR CHOIR, 50
 CHAPARRAL BAND, 51
 CHARLIE'S GIRLS, 50
 CHOIRS, 49
 CNA, 30
 COLLEGE ALGEBRA, 45
 communication, 9
 CONCERT CHOIR, 49
 CONCERT ORCHESTRA, 53
 Constitution, 64
 CONSTRUCTION TECH QUALIFICATIONS II & III, 36
 CONSTRUCTION TECHNOLOGY, 36
 CONSUMER MECHANICS, 35
 CONTEMPORARY AMERICAN PROBLEMS, 15
 CorelDraw, 14
 crime, 15
 crime scene, 61
 Criminal Justice, 6
 CRIMINAL JUSTICE, 15
CULINARY ARTS, 24
CULINARY ARTS 1-2, 23

D

debate, 17
 design, 9
DESIGN 3, 25
 Desktop publishing, 14
DEVELOPING CHILD 1-2, 23
DEVELOPING CHILD 3-4, 23
 digital photography, 14
 Drafting, 33, 38
 DRAFTING, 37
 drawing, 9

Dual Credit, 15, 30, 33, 36, 46, 47, 59, 60, 61, 64
 DUAL CREDIT CLASSES, 6

E

Ecology, 57
 ECONOMICS 1, 15, 65
 ECONOMICS 2, 16, 65
 ELECTIVES, 15
 ELECTRICITY, 34
 EMT BASIC, 30
 ENGINEERING DRAFTING, 38
 ENGLISH, 19
 ENGLISH 1-2, 19
 ENGLISH 1-2 HONORS, 19
 ENGLISH 3-4, 19
 ENGLISH 3-4 HONORS, 20
 ENGLISH 5-6, 20
 ENGLISH 5-6 HONORS, 20
 ENGLISH 7-8, 20
 ENTREPRENEURSHIP, 13
 ENVIRONMENTAL SCIENCE, 57
 ESSENTIALS IN WORLD HISTORY, 63
 Excel, 12
 EXCEPTIONALITIES, 16

F

FAMILY & CONSUMER SCIENCE, 23
FASHION, DESIGN, & CONSTRUCTION 1, 24
FASHION, DESIGN, & CONSTRUCTION 2, 24
FCS INDEPENDENT STUDY, 25
 Fee, 23, 24, 25, 32, 33, 34, 35, 36, 61
 finance, 12, 13
 FINANCIAL TECH SKILLS, 12
 FINE ARTS OPTIONS, 5
 Forensic Science, 6
 FORENSIC SCIENCE, 61
 FOUNDATIONS OF SCIENCE, 57
 FRENCH, 69, 70
 FrontPage, 14

G

GENERAL CHEMISTRY, 58
 GENERAL PHYSICS, 59
 genetics, 57
 geography, 63
GEOLOGY, 60
 GEOMETRY, 43
GEOMETRY IT, 44
 GERMAN, 70, 71

GOVERNMENT, 64
GUITAR 101, 49

H

HEALTH 1-2, 27
HEALTH 3-4, 27
health care, 15
HEALTH ENHANCEMENT, 27
HEALTH OCCUPATIONS INTERNSHIP,
31
HIGH SCHOOL HOUSE, 36
HONORS CHEMISTRY, 58
HONORS HUMAN BIOLOGY 5-6, 29, 58
HONORS PHYSICS, 59
**HOSPITALITY, TOURISM, &
RECREATION**, 24
HTML, 14
human anatomy, 61
HUMAN BODY SYSTEMS, 29, 61

I

Illustrator, 9
InDesign, 14
INDUSTRIAL TECHNOLOGY, 32
INDUSTRIAL TECHNOLOGY
INDEPENDENT STUDY, 39
INFORMATION PROCESSING, 13
INORGANIC CHEMISTRY, 59
Instructor permission, 12, 13, 15, 16,
36,38, 39, 45, 49, 54, 55, 57, 58, 60,
65, 67, 68,
insurance, 14
INTERIOR DESIGN 1, 24
INTERIOR DESIGN 2, 25
INTERMEDIATE ALGEBRA, 43
Internet, 12, 14
INTRO TO ENGINEERING, 60
INTRO TO INDUSTRIAL TECHNOLOGY,
32
INTRODUCTION TO ATHLETIC
TRAINING, 16, 30
INTRODUCTION TO HEALTH
OCCUPATIONS, 29
INTRODUCTION TO JOURNALISM, 54
INTRODUCTORY ALGEBRA, 45
investing,, 14

J

JMG, 13
job, 13
JOB SEEKERS, 13
job shadows, 12

JOB FOR MONTANA'S GRADUATES,
13

K

keyboarding, 13

L

law, 12
leadership, 13

M

management, 12, 13
MANAGEMENT, 13
marketing, 12, 14
MARKETING, 14
MATH, 42
MATH LITERACY, 42
MAVERICK BAND, 51
MED PREP, 29
media, 9
MEN'S CHOIR, 50
METALS MANUFACTURING, 33
Microsoft 07, 12
money management, 14
Montana, 63
MONTANA GOVERNMENT STUDIES, 63
MULTIMEDIA, 14
MUSIC, 49
music history, 53
MUSIC THEORY, 49

N

NEWSPAPER WORKSHOP, 54

O

office manager, 12, 13
ONLINE COURSES, 7
on-the-job experience, 14
ORCHESTRAS, 53
ORGANIC CHEMISTRY, 59

P

painting, 10
PERCUSSION ENSEMBLE, 51
PERSONAL FINANCE, 14
Photoshop, 9, 14
PHYSICAL EDUCATION, 27, 28
portfolio, 13

POWER TECHNOLOGY, 34
PowerPoint, 12, 14
PRE-CONSTRUCTION, 35
PREPARATION FOR LIFE, 23
printmaking, 9
profitability, 12
PSYCHOLOGY 1, 16
PSYCHOLOGY 2, 17
PUBLICATIONS, 54
**PUBLICATIONS INDEPENDENT
STUDY**, 56
publishing, 54

R

real business world, 12
reproduction, 57
RUSSELL AYRES, 50
RUSSTONES, 52
RUSTLER BAND, 51
Rustlers, Inc, 12

S

SCIENCE, 57
Sculpture, 10
SENIOR PROJECT, 20
SENIOR PROJECT MED PREP, 21
shareholding, 12
SIGN LANGUAGE, 17
social issues, 15
social problems, 15
SOCIAL STUDIES, 63
SPANISH, 71, 72
speaking skills, 17, 18
SPEECH 1, 17
SPEECH 2, 18
STAGECRAFT, 67, 68
state government, 63
STATISTICS, 46
STRING ENSEMBLE, 53
string orchestra, 53
STUDIO IN DRAWING AND
PRINTMAKING, 9
STUDIO IN GRAPHIC DESIGN, 9
STUDIO IN PAINTING, 10
STUDIO IN PHOTOGRAPHY, 9
STUDIO IN SCULPTURAL DESIGN, 10
SURVEY OF MATH, 46
SYMPHONIC BAND, 52

T

taxes, 14
TECHNICAL MATH, 47
THE COMPANY, 12

the Constitution, 64
THEATRE, 67
touring band, 52
tribal government, 63

U

U.S. HISTORY, 63

V

VIDEO PRODUCTION, 18, 68

VIDEO PRODUCTION II, 18, 68

W

web-page design, 14
WEIGHT TRAINING, 28
WELDING, 32
WELDING 1, 32
WELDING 2, 32
WELDING 2 DESIGN, 32
WELDING 3, 33
WELDING QUALIFICATIONS, 33
WOODS 1-2, 36

WOODS 3-4, 36
woodworking, 36
Word, 12
WORK EXPERIENCE, 14
world cultures, 63
world history, 63
WORLD LANGUAGES, 69

Y

YEARBOOK WORKSHOP, 55