

AG EDUCATION DEPARTMENT

AG SMALL ENGINES I CLASS LIMIT:12

Grades: 9,10,11,12

Credit: .5

Prerequisite: None

This course of study will concentrate on tools identification, parts terminology, maintenance, repair and overhaul of small engines along with basic engine theory. Students will be required to disassemble, measure, recondition and reassemble single-cylinder engines assigned to them. Identification, testing and troubleshooting of mechanical power, cooling, lubrication, starting and ignition systems will be included.

AG POWER MECHANICS CLASS LIMIT:12

Grades: 9,10,11,12

Credit: 1

Prerequisite:Ag Small Engines

This course of study will concentrate on parts terminology, maintenance, repair and overhaul of large engines along with basic engine theory. The disassembly and assembly of a large engine is required on large engine operations, maintenance, repair and overhaul with the emphasis on agricultural equipment. Students will be required to disassemble, measure, recondition and reassemble multi-cylinder engines. Identification, testing and troubleshooting of mechanical power, cooling, lubrication, starting and ignition systems will be included. As time allows, clutch train transmission and other systems will be studied. Major pieces of agricultural equipment may be incorporated as time and opportunity allows. Other agriculture power areas of hydraulics, electrical and chemical are options of course instruction. Homework and lab time are an expectation of this class.

AG WELDING I CLASS LIMIT:15

Grades:9, 10,11,12

Credit: .5

Prerequisite: None

This class is an introduction to MIG, arc and oxy-acetylene welding. Both shop and welding Safety procedures are covered. Students are required to complete a series of welds. Flare cutting will be covered. Minor project construction may be included as time allows. Homework is an expectation of this class.

AG WELDING II CLASS LIMIT:15

Grades: 10,11,12

Credit: 1

Prerequisite: Ag Welding I

The course of study will concentrate on advanced welding techniques with an emphasis on out of position welding, fabrication and project construction. After techniques are mastered, students will construct a project. Other areas of study may include TIG, MIG, brazing, hard-surfacing, flame and plasma cutting.. Homework and lab time are an expectation of this class.

AG WELDING III/AG WELDING IV CLASS LIMIT:12

Grades: 11,12

Credit: 1

Prerequisite: Ag Welding I, Ag Welding II

This option is for students with established career cluster interest in welding occupations. Review of shop and welding safety will be covered. A review of ARC, GAS and MIG Welding will also be covered. A review of both flame and plasma cutting will be held. A majority of the time will be spent on large project fabrication and welding.

HORTICULTURE I CLASS LIMIT: 18

Grades: 10,11,12

Credit: .5

Prerequisite: Ag Edu I

This is an introductory course that focuses on the general production and processing of domesticated plants, shrubs, flowers, foliage, trees, groundcovers, and related plant materials; the management of technical and business operations connected with horticultural services, greenhouse management; and the basic scientific principles needed to understand plants and their management and care.

Students will learn fundamental skills relating to plant propagation and nutrition, floral arrangements and greenhouse production while working in the school greenhouse at least three class periods a week.

Printed handouts will be utilized throughout the year and kept in a three ring binder in the classroom along with a weekly journal. The students will need a basic understanding and interest in plants and soil structures.

HORTICULTURE II CLASS LIMIT: 18

Grades: 10,11,12

Credit: .5

Prerequisite: Horticulture I

A course that prepares individuals to select, culture, propagate, harvest, and market domesticated fish, shellfish, and marine plants, both freshwater and saltwater. Includes fundamental skills and instruction in the basic principles of aquatic and marine biology; health and nutrition of aquatic and marine life; design and operation of fish farms, breeding facilities, culture beds, and related enterprises; and related issues of safety, applicable regulations, logistics, and supply. Students will be working in the school greenhouse at least three class periods a week.

Printed handouts will be utilized throughout the year and kept in a three ring binder in the classroom along with a weekly journal. The students will need a basic understanding and interest in Horticulture.

AG EDU I CLASS LIMIT: 16

Grades: 9,10,11,12

Credit: 1

Prerequisite: None. Freshmen who want to be in FFA must take this class.

This course is developed as the 1st step in the Ag Program and introduction to FFA. The class will cover Basic Animal Health, Plant Sciences and Agriculture Business Management, introduction to the SAE program and the 1st level of FFA requirements. The students will develop a strong involvement in leadership activities and skills in and out of the school setting.

The technical portion of this course will consist of computer applications, greenhouse processes and individual or group projects.

AG EDU II CLASS LIMIT: 16

Grades: 10,11,12

Credit: 1

Prerequisite: Ag Edu I

Building on the foundations of AG EDU I, this course will be more detailed in the areas of advanced Animal Health, Plant Sciences and Agriculture Business Management. They will continue with the SAE Program and the 2nd level FFA requirements. The students will continue to develop skills to compete in local and regional competitions with FFA.

The technical portion of this course will consist of computer applications, greenhouse processes and individual or group projects.

AG EDU III CLASS LIMIT: 12

Grades: 11-12

Credit: 1

Prerequisite: Ag Edu I, Ag Edu II

A program that focuses on preparing individuals to manage agricultural businesses (ranches, and similar enterprises) and agriculturally related operations within diversified corporations. Includes instruction in agriculture, agriculture specialization, business management, accounting, finance, marketing, planning, human resources management, and other managerial responsibilities. Also includes government courses and regulations, operational planning, budgeting, contracts and negotiation, and estate planning.

Printed handouts will be utilized throughout the year and kept in a three ring binder in the classroom along with a weekly journal. The students will need a basic understanding and interest in agriculture and accounting.

INDEPENDENT AGRICULTURE STUDY CLASS LIMIT: 5

Prerequisite: Ag Edu III and instructor approval

Credit: 1

This course is an independent agriculture program in which the student must have a keen interest and knowledge in their area of study. Limited teacher instruction will be provided. However a daily check in with the instructor and weekly log is a requirement for credit. A detailed plan must be provided prior to the acceptance of this course by the instructor.

ART DEPARTMENT

ART I Course fee of \$7.50 per semester CLASS LIMIT: 24

Grades: 9, 10,11,12

Credit: 1

Prerequisite: Art 1

Art will be explored through a variety of art activities and mediums including drawing, painting, and 3D focusing on elements of art and principles of design. No previous art experience is necessary for this course, however, the student must enjoy working with their hands and eyes and come to class with an open mind and good work ethic. (This class meets the Fine Art requirement for graduation) ***This course is the prerequisite for Studio arts, Drawing, Painting classes.**

Due to the resources available, students use many different mediums and having more than 24 would bring about the opportunity for misuse that could result in student injury, students who do not participate, use materials wisely or properly will be removed from class to make room for students that have been refused acceptance due to class size restrictions.

CRAFTS Course fee of \$10 per semester CLASS LIMIT:24

Grades: 10,11,12

Credit: 1

Prerequisite: None

Crafts will cover crafting through history and across cultures; most projects will be 3D in format and many mediums will be covered. No previous art experience is being required for this class and it will fulfill your Fine Arts Credit. (This class meets the Fine Art requirement for graduation)

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DRAWING

Grades: 11,12

Credit: .5

Prerequisite: Art 1

Learning to draw is essential for greater understanding in all areas of art. In this class, students will explore their world through observation, planning, and execution. Pencil, ink, colored pencils, and occasionally oil pastels will be used. Students are expected to commit to a focused work ethic, create several quality projects to completion by being thorough and responsible, and participate in discussions

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PAINTING Course fee of \$15 per semester CLASS LIMIT: 20

Grades: 11,12

Credit: .5

Prerequisite: Art 1 and Drawing

In this class, students will have the opportunity to paint interpretations of his or her world. Exploratory exercises as well as in-depth study of watercolor, acrylic, and watercolor pencil technique will be the focus. Students are expected to have an openness to learning and willingness to try new things, plus a daily commitment to a focused work ethic, participation in discussions.

Due to the resources available, students use many different mediums and having more than 20 would bring about the opportunity for misuse that could result in student injury, students who do not participate, use materials wisely or properly will be removed from class to make room for students that have been refused acceptance due to class size restrictions.

ART STUDIO Course fee of \$15 per year CLASS LIMIT: 24

Grades: 11,12

Credit: 1

Prerequisite: Art 1 or instructor approval

This advanced class will allow students to explore more mediums than we can cover in Art 1; students will be able to work independently on projects to expand their own portfolio; the school will do the best to foster their interests and help with supplies. Students may need to bring in some of their own if they are wanting to explore a medium that the school doesn't offer. This class truly is meant for those students that are interested in establishing their own portfolio and working independently on art for it. The teacher will guide and grade as projects are finished. The teacher will assist the students in setting up their portfolio by scanning and photography art work as completed to use for future reference.

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BUSINESS DEPARTMENT

PERSONAL FINANCE Class Limit: 24

Grades: 11,12- REQUIRED FOR GRADUATION

Credit: .5

Prerequisite: None

DUAL CREDIT OPTION FROM DAWSON COMMUNITY COLLEGE

Students will achieve an understanding of financial literacy to apply to their personal lives. Topics covered include: insurance, credit cards, budgeting, the stock market/investing; how to do federal tax returns, understanding payroll taxes, and banking services. An online personal finance simulation is completed as well.

MARKETING AND MANAGEMENT Class Limit: 24

Grades: 10,11,12

Credit: 1

Prerequisite: None

DUAL CREDIT OPTION FROM DAWSON COMMUNITY COLLEGE

Marketing education enables students to understand and apply marketing, management, and entrepreneurship. Pricing, promotion, selling, products, and the customer's buying decision are marketing topics. There will be a focus on social media marketing. A computerized virtual business simulation will be used to apply marketing skills.

ACCOUNTING I Class Limit: 15

Grades: 10,11,12

Credit: 1

Prerequisite: None

DUAL CREDIT OPTION FROM MILES COMMUNITY COLLEGE

Accounting is a one-year course designed to give students a foundation in the terminology and the principles of double-entry accounting for businesses organized as a sole proprietorship, a partnership, and a C corporation. Students will learn how to start an accounting system, analyze transactions into debit and credit parts, journalize and post business transactions, and prepare financial statements. During the semester you will also learn how to do payroll accounting. A simulation packet is completed to apply what you have learned.

ACCOUNTING II Class Limit: 15

Grades: 11,12

Credit: 1

Prerequisite: Accounting I

DUAL CREDIT OPTION FROM MILES COMMUNITY COLLEGE

Students who are interested in accounting as a career or any future study in the field of business should enroll in the second year of accounting. Curriculum areas covered include the following: learning a voucher system, notes payable, prepaid expenses and accrued expenses; notes receivable, unearned revenue, and accrued revenue. A basic review of accounting procedures, plant assets and depreciation, inventory control, departmental and payroll accounting, and using financial statements for decision-making is included. A simulation packet is completed to apply what students have learned.

COMPUTER PROGRAMMING I Class Limit: 24

Grades: 9,10,11,12

Credit: .5

Prerequisite: None

Computing has changed the world in profound ways. It has opened up wonderful new ways for people to connect, design, research, play, create, and express themselves. The transformation has come about by learning to program the computer and to translate ideas into code.

In this class, you will learn to program and will view the "Big Ideas" in computing, such as abstraction, design, recursion, concurrency, simulation, and the limits of computation.

The student will learn the rudiments of computational thinking using the Python computer language or one of the other graphical programming languages, explore using Visual Basic in MS Excel, and program apps for the Android like cell phone platform and other programming languages.

WEB DESIGN I Class Limit: 24

Grades: 9,10,11,12

Credit: .5

Prerequisite: None

This course is an introduction to the design, creation, and maintenance of web pages and websites. Students will learn about web design standards and how to create web pages using HTML, CSS, Dreamweaver, Fireworks, and other technologies used in digital communications.

INDEPENDENT STUDY AND CAREER EXPLORATION Class Limit: 24

Grades: 11,12

Credit: 1

Prerequisite: Instructor Approval

A minimum of 4 occupations in business are researched and explored by completing a research project coupled with job shadowing for further exposure to the occupation in business. Examples of possible occupations would be banking, finance, accounting, management, and insurance. Occupations of interest are subject to instructor approval and are coordinated by the instructor. Job shadowing is not a paid internship.

ENGLISH LANGUAGE ARTS

English Language Arts 9

Prerequisite: 8th grade English

Limit: 24 students

1 credit earned

This is a full-year course designed to incorporate readings in world literature, a review of grammar, and further development of the writing process, speaking, and listening. The readings in literature will be a survey of types of literature: short stories, poetry, non-fiction, drama, and the novel; with major pieces such as *The Giver*, *The Pearl*, works of Shakespeare such as *Romeo and Juliet*, *Sir Gawain*, *The Green Knight*, and an introduction to Greek/Roman mythology, which could include works such as *The Odyssey*. Vocabulary and spelling skills will focus on context vocabulary and literary terms. Writing, speaking, and listening projects will be based on literary readings, in-depth research and formal writing. The assembly of a full writing portfolio should be expected during the second semester.

English Language Arts 10

Prerequisite: ELA 9

Limit: 24 students

.5 credit earned

This is a full-year course designed to incorporate readings in world and classical literature, a review of grammar, and further development of the writing process, speaking, and listening. The readings in literature will be a survey of types of literature: short stories, poetry, non-fiction, drama, and the novel; with major pieces such as *A Midsummer Night's Dream*, *Antigone*, *Frankenstein*, and *Lord of the Flies*. Students will write paragraphs and essays, give classroom presentations, and prepare projects, career choices, and other topics. Students will practice grammar and mechanics daily. They will strengthen their vocabulary and spelling skills through the study of words from the readings.

English Language Arts 11

Prerequisite: ELA 10

Limit: 24 students

.5 credit earned

This is a semester course designed to present readings in American literature. Reading, writing, speaking, and listening activities will center around short stories, novels, drama, non-fiction, and poetry, with major pieces including but not limited to *Our Town*, *Death of a Salesman*, and *To Kill a Mockingbird*. Writing activities may include summarizing, researching, and analyzing literature in the expository and analytical mode, and speeches, influenced by speakers such as *Frederick Douglass*, *Thomas Jefferson*, and *Benjamin Franklin*; speeches will be created based on persuasive and argumentative methods. Vocabulary and spelling skills will focus on the content area of reading and essay writing. A formal research paper and persuasive speech will be required.

Advanced English 11

Prerequisite: Completion of ELA 10 AND Teacher Recommendation/Consent of Instructor

Limit: 18 students

1 credit earned/Dual-credit

This is a full-year, junior-level course concentrating on reading and critical analysis of American Literature. Emphasis will be on analyzing fiction, poetry, drama, and essays. A formal research paper will also be required. The student must be willing to commit time and effort outside of class hours to complete the rigorous reading and writing assignments. Some summer reading is advised. Because of the amount of work involved, this course is recommended for college preparatory students only. Since class periods will be spent on discussions and written analysis, completing this course supersedes English Language Arts 11 from the student's required classes. Students who perform well in this class may take Advanced English 12 to better prepare for the advanced placement test for possible college credit. Literary Works may include *The Great Gatsby*, *The Scarlett Letter*, *To Kill a Mockingbird*, *Our Town*, and *Death of a Salesman*. Space is limited for this course as students earn college credit through MCC.

English Language Arts 12

Prerequisite: ELA 11

Limit: 24 students

.5 credit earned

This semester's course focuses on readings in British literature. Reading, writing, speaking, and listening activities will begin with Old English and trace language and literature beginning with Old English through Modern English. Various types of literature will be studied and analyzed: short stories, poetry, novels, drama, and non-fiction, including literary works such as *Beowulf* and *The Two Towers*. Writing activities will include literary analysis, persuasive essays, resume and employment-related writing, college writing styles, and research papers or anthologies. Speaking activities will include oral argumentation and individual and group presentations. Vocabulary and spelling skills in this course will focus on defining and using the Greek and Latin roots, suffixes, and prefixes. This course will include oral presentations utilizing multimedia technology.

Advanced English 12

Prerequisite: Advanced English 11 AND Teacher Recommendation/Consent of Instructor

Limit: 18 students

1 credit earned/Dual-credit

Advanced English is a full-year, senior-level course concentrating on reading and critical analysis. Time outside of class must be reserved to complete the reading and writing assignments. Some summer reading is strongly advised. The student must be willing to commit time and thought to the various levels of literature presented. The emphasis in the class will be on analyzing fiction, poetry, drama, and essays. Because of the amount of work involved, this course is recommended for college preparation students only. Vocabulary and spelling skills in this course will focus on defining and using the Greek and Roman roots, suffixes, and prefixes. Additional classwork will include research and/or anthology readings. Students who perform well in this class may choose to take the advanced placement test for possible college credit. Since class time will be spent on discussions and written analysis, completing this course replaces English Language Arts 12 from the student's required classes. Literary Works may include works such as *The Iliad*, *Crime and Punishment*, *Gulliver's Travels*, and *Pride and Prejudice*. Space is limited for this course as students earn college credit through MCC.

World Mythology

Prerequisite: Completion of ELA 9

Limit: 24 students

.5 credit earned

This semester-long class is designed to study the nature of mythology through folklore and legendary narratives, themes, archetypal figures/situations, symbolism, and figurative language. Mythology and folklore from a variety of places, such as Greece, Rome, China, Africa, Norway, and America will be discussed. Students can be expected to develop an understanding of the ways myth and folklore have shaped culture and society throughout the world, as well as relate their significance to individual cultures and societies, and identify basic figures and characters of mythology. Students will develop speaking and listening skills, reading skills, and writing skills by completing various research-based presentations, essays, and a final semester project.

Historical Literature

Prerequisite: Completion of ELA 9

Limit: 24 students

.5 credit earned

Historical fiction will look at works where fiction and history stroll hand-in-hand as equal partners. The goal of this class will be to learn about ourselves through other characters, our time through looking at previous eras, and our future through examining the past. Over the semester, we will read a wide range of voices from an equally wide range of times and places. Students must be prepared to read extensively outside of class. With independent reading, students will be expected to keep a reading journal. While the focus of the class will be literature, there will also be instruction concerning research, writing, speaking, grammar, and vocabulary. Literary works may include *The Night Watchman*, *The Paris Library*, and *The Engineer's Wife*. Students should be prepared to participate in full-class discussions based on readings and connections to the outside world. There will be creative assignments, discussions, and analytical writing required.

Young Adult Literature

Prerequisite: Completion of ELA 9

Limit: 24 students

.5 credit earned

This is a semester class designed for sophomores and juniors. We will study many genres through the lens of the Young Adult Literary world. There will be a component of Independent reading, students will be encouraged to read a series of selected books from this particular literary category, keeping a journal and log. The class will explore poetry, podcasts, books, and cinema that will demonstrate this category of literature. Students must be prepared to read extensively outside of class. All-class novels may include *Persepolis*, *Scythe*, and *Long Way Down*. Grammar, vocabulary, listening, and writing skills will be reviewed and implemented. Students should be prepared to participate in full-class discussions based on readings and connections to the outside world. There will be creative assignments, discussions, and analytical writing required.

Contemporary Literature

Prerequisite: Completion of ELA 11

Limit: 24 students

.5 credit earned

This semester-long course, designed for juniors and seniors, focuses on critical reading, writing, and discussion of selected modern novels, poems, and short stories. Text examinations will include multiple viewpoints, examining the works not only for themes, narratives, and style but also through the application of a variety of critical theories. The literature is geared toward juniors and seniors and may contain mature themes and images. The texts, discussions, ideas, and format differ from those normally encountered in a high school classroom. Students can expect to develop writing skills, work cooperatively in small groups, research, and theorize on the literature. Literary works may include *True Grit*, *The Help*, and *The Things They Carried*.

American Literature

Prerequisite: Completion of ELA 11

Limit: 24 students

.5 credit earned

This is a semester course designed to present post-WWII readings in American literature. Reading, writing, speaking, and listening activities will center around short stories, novels, drama, non-fiction, and poetry, with major pieces including but not limited to *A Worn Path*, *A Raisin in the Sun*, and *The Great Gatsby*. Writing activities will stem from modern poetry, speeches, and literature. Students can expect to also read an individually selected modern-American novel, in which they will complete writing journals and a research-based semester final essay. Vocabulary and spelling skills will focus on the content area of reading and essay writing.

Speech and Communications

Prerequisite: Completion of ELA 10

Limit: 20 students

.5 credit earned/Dual-credit

This semester-long course is an introduction to speech communication emphasizing the practical skill of public speaking, including techniques to lessen speaker anxiety, and the use of visual aids to enhance speaker presentations. Civility and ethical speech-making are the foundations of this course. Its goal is to prepare students for success in typical public speaking situations and to provide them with the basic principles of organization, writing and outlining, and research needed for effective speeches. Students can expect to familiarize themselves with the writing process, including vocabulary and grammar work, peer-editing, and presenting formal speeches regularly throughout the course. This course will cover the literature, *Deathwatch*, as well as various short stories and articles. Space is limited for this course, and specific guidelines will need to be followed for students dual-enrolled, as they earn college credit through MCC.

College Composition

Prerequisite: Completion of ELA 10 AND Consent of Instructor

Limit: 15 students

.5 credit earned/Dual-credit

This is a semester-long course offering students the opportunity to improve various writing skills, with a focus on the essay. This class is meant for the benefit of students in preparation for the ACT, scholarship essays, and college. Students will improve on specific writing skills such as sentence structure, word choice, organization, vocabulary, and time management. Students will discuss and work on various essays such as argumentative, explanatory, information, and analytical. The class will involve intense research, literary discussion, writing, and readings using the Bedford Text, as well as various short stories, videos, articles, and novellas such as *The Metamorphosis* and *The Strange Case of Dr. Jekyll and Mr. Hyde*. Students can expect to complete a complete research-based analytical essay for the semester final. Space is limited for this course as students can earn college credit through MCC by completing specific guidelines.

FAMILY AND CONSUMER SCIENCE **DEPARTMENT**

CHILD DEVELOPMENT

Grades: 9, 10, 11, 12

Credit: .5

Prerequisite: None

This **one-semester** class is a look at life from the prenatal world: through pregnancy, childbirth, and the first 12 years of a child's life. This class is designed to increase the enjoyment and understanding of children and provide students with a framework of knowledge to make better decisions. At times a field trip to the Sidney Health Center may be offered. On this trip students' questions will be answered, and a tour of the OB wing and a viewing of an actual ultrasound as well as a guest speaker from the health department, will help enhance topic areas. Students will watch birthing videos and take certification when funding is available. Typically students will get to participate in the RealCare baby simulation. Highlights of this class include the RealCare babies (when available), creating a book, and creating a toy.

CLASS LIMIT: 25, due to available space

CULINARY ARTS I

Grades: 9, 10, 11, 12

Credit: .5

Prerequisite: None

This **one-semester lab** class emphasizes lab planning, basic industry standards, and food preparation. Students work together to prepare many recipes in lab groups of 3-4 students, ideally 3 people. Students learn basic background knowledge in measuring ingredients, reading recipes, and preparing quick bread, yeast bread, pasta, chicken, and beef main dishes as well as pies, cakes, and cookies. Emphasis is also placed on developing skills in meal preparation for working family members and food service careers.

CLASS LIMIT: 20, due to available lab space

CULINARY ARTS II

Grades: 9, 10, 11, 12

Credit: .5

Prerequisite: Culinary Arts I

This **one-semester lab** class is designed to meet the needs of students who have taken Culinary Arts I and still want to study further in this field. This course goes beyond the basics, and students develop their food preparation skills to a higher level as they prepare a variety of recipes to challenge their culinary skills for individual use or future use in the culinary workplace. ServSafe certification may be available depending on funding. This class contains required out-of-class work experiences that the teacher provides. Typically students will work at the MGEE or serve breakfast in the cafeteria, but there may be afterschool experiences. The potential foods to be prepared are cake pops, lollipops, breakfast foods, appetizers, homemade pasta, canned foods, and homemade cheese.

CLASS LIMIT: 20, due to available lab space

Culinary III

Grades: 9, 10, 11, 12

Credit: .5

Prerequisite: Culinary Arts I and II

This **one-semester project-based/lab** class is designed to give students an understanding and advancement within the culinary arts realm. The emphasis of this course is to focus on careers within the culinary realm along with business ideals and restaurant management. The first half of the course will focus on careers while the second half will focus on culinary business concepts. Students may at times be required to contribute out of class time as well as travel to local businesses for tours. The intent is to expose students to the restaurant realm and better understand what the culinary industry has to offer. At times there will be required out-of-class experiences students will need to complete; catering gigs, business experiences, ect. Food labs are scattered throughout but this is a career-heavy class where most materials are intended to teach individuals who want to possibly own or create their own culinary business.

CLASS LIMIT: 20, due to available lab space

EARLY CHILDHOOD EDUCATION I

Grades: 9, 10, 11, 12 Credit: 1 Prerequisite: None, Child Develop. preferred

This **full-year lab** class is an in-school practicum class. Students who have completed the prerequisites can expand their knowledge into the early childhood education realm. First Aid and CPR training will be provided when funding is available. Students will run the Busy Beaver program and explore the realm of teaching. Workplace etiquette, lesson planning, and career exploration are major components of this class. Students have to have a motivated personality and be able to meet required HARD deadlines even when they are gone.

CLASS LIMIT: 16, Due to available resources and space

EARLY CHILDHOOD EDUCATION II

Grades: 10, 11, 12 Credit: 1 Prerequisite: Approved application and ECE I

This **full-year, two-period lab** (3rd and 4th) class is a practicum that enables students who have successfully completed ECE 1 to apply for further experience in the realm of early childhood education by teaching alongside one other professional. Students will teach in an educational setting to gain a new perspective in the realm of education. Various Montana state trainings will be provided allowing workforce certifications. In certain cases, students may take ECE II but be within the Busy Beaver program only. Students have to have a motivated personality and be able to meet HARD deadlines even when they are gone.

CLASS LIMIT: 5, due to available experience opportunity and space

EARLY CHILDHOOD EDUCATION III

Grades: 11, 12 1 Credit
Prerequisite: Approved application and ECE II prerequisites

This **full-year, two-period lab** (3rd and 4th) class is a practicum that enables students who have completed the prerequisites to venture into the community to teach alongside various professionals in the early childhood education realm. Students will aid, plan, and implement lessons. Application to this program is required. Various Montana certifications and training will be provided to allow for improved workforce skills.

CLASS LIMIT: 5, due to available experience opportunity and space

FIBER TECH

Grades: 9, 10, 11, 12 Credit: .5 or 1 Prerequisite: None

This class will be offered as a **semester lab** class and is designed for students who wish to develop basic sewing/quilting skills. Experienced students are encouraged to enroll as well. Students will create a quilting project, a crocheted stuffed animal, and a paper-pieced item during the semester with the approval of the teacher. Students will work individually and will be graded periodically on his/her classroom time management and completion of projects. Students will work on projects with instruction and assistance from the teacher. Students will mainly explore knitting, crocheting, paper piecing, and quilting.

CLASS LIMIT: 12, due to available machines

FASHION I

Grades: 9, 10, 11, 12 Credit: .5 Prerequisite: None

This **one-semester lab** class is designed for students who want to learn more about the fashion world. It explores all aspects of the fashion scene, including color analysis and sustainable fashion. Students will study the identification of principles and elements of design in fashion. Basic techniques of construction will be learned. Students construct a project of their choice, based on approval. The semester project will be geared toward creating an advanced fashion garment. This class is for those students who enjoy fashion or are considering a future in the business of retail fashion. You will be required to purchase your own patterns, fabrics, and notions.

CLASS LIMIT: 12, due to available machines

LEATHERCRAFT AND DESIGN

Grades: 9, 10, 11, 12 Credit: .5 Prerequisite: Fashion

This **one-semester lab** class is designed for students who want to learn more about leather crafting and designing miscellaneous items using Cricut. For the first eight weeks, students will be introduced to leathercraft tools as well as practice the basic components of leathercraft. Students will be responsible for getting the kits or pieces to complete their projects. Students will get the option of completing a coaster or bookmark. Supplies for the leathercraft portion will be shared among students. The remaining weeks will be spent learning about the design realm in terms of laws/regulations, material designing types, branding, using cricut design

space, and finally making your own garments. We will make up to 4 projects (T-shirts, cards, stickers, and eagle gear). If time allows students will make additional items based on their preference. The students will be responsible for purchasing the material on which the design will go as well as vinyl types if necessary.

CLASS LIMIT: 10, due to available supplies



FITNESS AND WELLNESS DEPARTMENT

FITNESS & WELLNESS 9

Grades: 9

Credit: 1

Prerequisite: None

Class Limit:30

This course is designed to incorporate both the physical and health areas to promote total fitness for the student. The course develops skills in a variety of individual and team activities and emphasizes health-related topics. The subject matter will be presented in blocks of time with equal emphasis on lifetime fitness and health wellness areas.

FITNESS & WELLNESS 10

Grades:10

Credit: 1

Prerequisite: None

Class Limit: 30

This course is designed to promote awareness of the mental, emotional, physical and social aspects of a healthy lifestyle. The course develops advanced skills in a variety of individual and team activities. Students will expand their knowledge in wellness-related issues.

ATHLETIC ENHANCEMENT I/II/III/IV

Grades:9,10,11,12

Credit: 1

Prerequisite: None

Athletic enhancement will cover basic theories of strength & conditioning, various methods of weight lifting, and the benefits from each method. Individuals will develop strength and endurance by using different methods of lifting during the year. Lifting procedures will be three days a week. One day a week will be used for speed training. Students who do not participate fully can be dropped from the class at the discretion of the instructor. This class is tailored towards athletes and designed to promote athletic development.

CLASS LIMIT: 20

ACTIVITY FOR LIFE

Grades:11,12

Credit: .5

Prerequisite: None

This activity course is designed for juniors and seniors only. The purpose is to have a combination of lifetime and fitness activities. The students will have access to the new school facilities as well as outdoor activities. Proposed activities range from cycling to bowling to tennis to total fitness.

CLASS LIMIT: 20

FOREIGN LANGUAGE DEPARTMENT

The U.S. government, multinational corporations, and university systems call for students who can speak and understand other languages as well as be aware of and respect other cultures. Our national security and economic prosperity depends on our ability to communicate with all countries around the world. Students who study a second language improve skill areas of reasoning ability, analysis, creative thinking, memory and mental discipline. They can combine their second language knowledge with career choices in international business, medicine, law, communications, journalism, music, the travel industry, scientific and engineering fields, teaching, military, and civil services and politics. It is a good idea for all students to study two years of a second language and it is highly recommended for college-bound students.

SPANISH I Class limit: 15

Grades: 9,10,11,12

Credit: 1

Prerequisite: None

Spanish I is a basic introduction to the Spanish language and the skills of listening, speaking, reading and writing. It includes the study of the Spanish alphabet sounds, pronunciation, vocabulary and grammar. General conversation is introduced along with discussions of the culture and the people in Spanish-speaking countries. Through videos, storytelling, circling, songs, and news media, the students hear Spanish spoken at normal conversational speeds to help them develop listening, speaking and reading skills.

SPANISH II Class limit: 15

Grades: 10,11,12

Credit: 1

Prerequisite: Spanish I; Must have earned a "C" or better in Spanish I

DUAL CREDIT OPPORTUNITY THROUGH WILLISTON STATE COLLEGE- SPANISH 101

Spanish II is a continuation of Spanish I. It introduces new vocabulary and more complex grammar. More emphasis is placed on general conversation, reading for understanding, critical thinking, and speaking in Spanish. Various media outlets from Spanish-speaking countries are explored in order to bring more cultural awareness.

SPANISH III Class limit: 15

Grades: 11,12

Credit: 1

Prerequisite: Spanish I, Spanish II; Must have earned a "C" or better in Spanish II

DUAL CREDIT OPPORTUNITY THROUGH WILLISTON STATE COLLEGE- SPANISH 102

Spanish III continues strengthening the language through reading, writing, listening, speaking, and critical thinking skills. Grammar is reviewed and new vocabulary and more complex grammar are introduced through storytelling, interactions, music, and targeted reading. More emphasis is placed on translation & comprehension and on the spoken language through the use of videos, short stories, novels, and other Spanish media.

SPANISH IV Class limit: 15

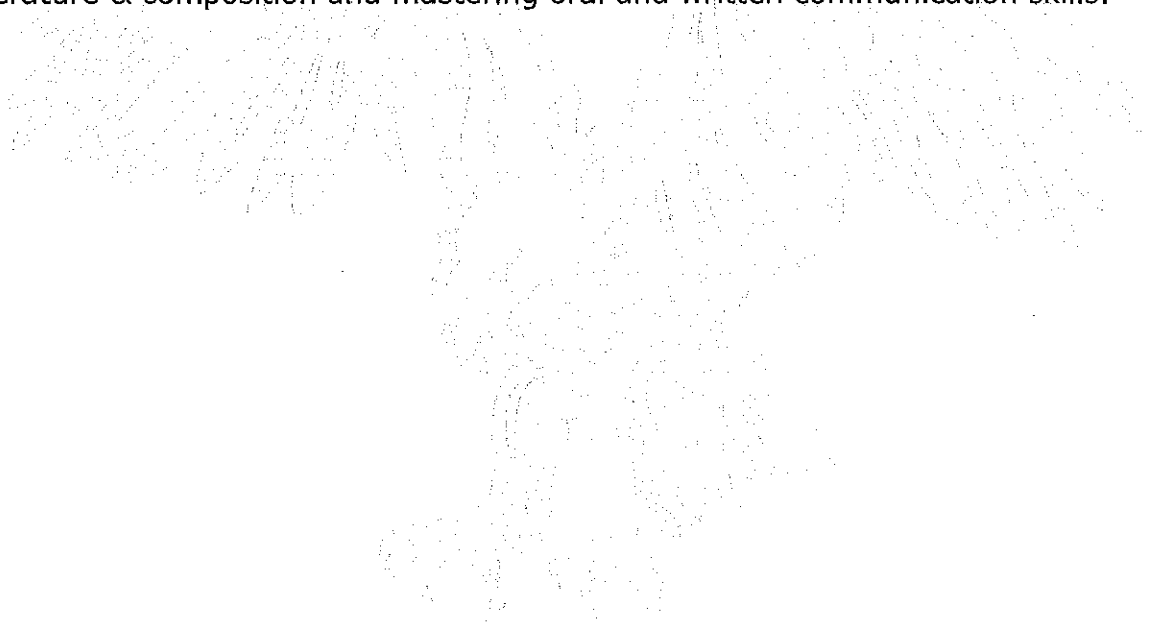
Grades: 12

Credit: 1

Prerequisite: Spanish I, Spanish II, Spanish III; Must have earned a "B" or better in Spanish III.

DUAL CREDIT OPPORTUNITY THROUGH WILLISTON STATE COLLEGE- SPANISH 201

Spanish IV further develops communication skills through class interactions using real life scenarios from Spanish media outlets and text that connect us to the Hispanic culture. The class reviews grammar learned in Spanish III and acquires knowledge in even higher complex grammar skills. Emphasis is on Spanish literature & composition and mastering oral and written communication skills.



GENERAL STUDIES DEPARTMENT

DIGITAL MEDIA

Grades: 10,11,12

Credit: 1

Prerequisite: None

This class will be an introduction into video and audio production and editing. Students will be given the opportunity to display their videography and visual editing skills through multiple mediums of media. Students will be organizing and publishing televised announcements to the Sidney High School student body, as well as covering topics throughout the school, such as sports, upcoming events, and club activities. Students will be entrusted with school technology and will be taught how to properly and efficiently use editing software. **CLASS LIMIT :10**

YEARBOOK

Grades: 11,12

Credit: 1

Prerequisite: Instructor approval

This course is offered for those students who would like to take part in the production of Sidney High School's yearbook. Students will learn to use a camera to obtain images of the different school functions that occur throughout the school year. Students will also be responsible for going out into the community to sell ads in the yearbook. Students will learn the Walsworth Publishing software to create the yearbook. **CLASS LIMIT: 12**

INDUSTRIAL TECH EDUCATION

DEPARTMENT

TECHNOLOGICAL LITERACY Course fee of \$20 per year

Grades: 9,10,11

Credit: 1

Prerequisite: None/ Limit of 18 students

This class is designed to introduce students to new technology used in industry and college. Each student will complete a two-week session in each of the following module stations: Computer Construction, Robotics, Pneumatics, C.N.C. (computer numerically controlled), C.A.D.D. (computer aided design & drafting), Construction and Structures, Aerodynamics, Magnetic Levitation, Solar, Electronics, Space Exploration and Laser. Students will also complete a project in mass production, machining and sheet metal technology, and woodworking technology.

METALWORKING Course fee of \$20 per semester

Grades: 10,11,12

Credit: .5

Prerequisite: Technological Literacy / Limit of 18 students

An introduction to the metal lathe, sheet metal, and metal technology will be the basis of this class. Lathe projects and sheet metal projects are required.

ADVANCED METALWORKING Course fee of \$40 per semester

Grades: 10,11,12

Credit: .5

Prerequisite: Metalworking/Instructor approval Limit of 18 students

This class is a continuation of metal lathe and sheet metal skills learned in Metals Technology I. Several small projects plus a project of the student's own design are required.

WOODWORKING I Course fee of \$30 per semester

Grades: 9, 10, 11, 12

Credit: .5

Prerequisite: None/ Limit of 18 students

An introduction to hand tools, power tools/machines, woodshop safety and woodworking skills and techniques will be included in this course. One wood project of the student's choice will be required.

WOODWORKING II Course fee of \$50 per semester

Grades: 9,10,11,12

Credit: .5

Prerequisite: Woodworking I Limit to 18 students

This class is a continuation of the skills learned in Woods I, and will develop skills in woodturning and wood joint construction. Students will learn how to identify types of furniture and quality of the furniture. Students will research, design and construct one woodworking project of their choice with instructor's permission.

CABINETRY

Grades: 10,11,12

Credit: 1

Prerequisite: Woodworking I / Limit of 14 students

Students will learn about woodworking techniques and furniture construction. Students will demonstrate woodshop safety and proper operation of tools/machines. They will learn about the trends and influences of historical furniture and will be able to identify quality furniture. Each student will research, design and construct a furniture project and will learn techniques used in door and drawer construction.

GENERAL CONSTRUCTION- WORKPLACE EXPERIENCE

Grades: 11,12

Credit: 2

Prerequisite: Woodworking I or Instructor Approval / Limit of 14 students

This course takes two periods per day and is designed to teach the skills of carpentry through practical experience as well as classroom study. The class consists of construction techniques used in concrete work, framing, installing doors and windows, roofing, exterior and interior wall finishing. Touring area homes and learning construction trends and techniques will be covered. Research of career and post-secondary educational opportunities in this area will be done.

AUTO BODY REPAIR AND REFINISH

Grades: 10,11,12

Credit: 1

Prerequisite: None / Limit of 14 students

This class is designed to give students a basic understanding of how the automobile operates. Areas in drive train, engine tune-up, fuel system, electrical system, brakes, steering and paint will be covered. General maintenance of the automobile will be stressed throughout this course. Students will explore the world of automotive restoration, with frame and body restoration, modifications and painting. Research of career and post-secondary educational opportunities in this area will also be done.

DRAFTING-GENERAL

Grades: 9, 10, 11, 12

Credit: .5

Prerequisite: None / Limit of 18 students

Drafting is a form of graphic communication. Students will learn how to show and/or express an idea graphically. Students will master drafting techniques through the use of drafting instruments and will draw orthographic, isometric and assembly drawings. Students will also be introduced to Computer Aided Design and Drafting

ENGINEERING DESIGN AND DEVELOPMENT

Grades: 9, 10, 11, 12

Credit: .5

Prerequisite: Drafting /C.A.A.D or Instructor Approval/ Limit of 14 students

Residential and building plans are developed by means of sketching and drafting. Students will design a floor, foundation, elevation and plot plan. Students will learn of building codes and standards. Students will also be introduced to computer programs and software which will be used to produce one of the drawings. Touring area homes and learning about construction trends and techniques will be covered.

BEGINNING COMPUTER AIDED DESIGN & DRAFTING (CADD)

Grades: 10, 11, 12

Credit: .5

Prerequisite: None/ Limit of 14 students

This course will introduce each student to the CADD system and its operations. Each student will master the commands of the CADD system and produce several drawings. Laser cutting and engraving and 3-D Printing will also be used to produce designed projects.

Class engineering projects will be designed and produced. Research of career and post-secondary educational opportunities in this area will also be explored.

ADV. COMPUTER AIDED DESIGN & DRAFTING (ADV. CADD)

Grades: 10, 11, 12

Credit: .5

Prerequisite: Drafting or Beg. C.A.A.D/ Limit of 14 students

Students will master the commands of Computer Aided Drafting, will construct 3-D drawings and become familiar with CAD/CADD principles and animation techniques. Students will design a project and use the laser cutting and engraving technology to produce their design. Research of career and post-secondary educational opportunities in this area will be done. On-the-job training is also a possibility in this area.

MATHEMATICS DEPARTMENT

Sidney High School recognizes that students who are unsuccessful in the first semester of a year-long math class are unlikely to have the background and skills to succeed in the second semester of the year-long class. Therefore, students who fail the first semester of a year-long class will not be allowed to continue into the second semester. Students who fail the second semester must retake the full course to receive full credit.

PRE-ALGEBRA

Grades: 9

Credit: 1

Prerequisite: Teacher recommendation and/or state testing scores

Preferred class size:18

This course is designed for those students not ready for algebra. Algebraic concepts are connected to arithmetic skills to build on what students already know while reinforcing mastery of fractions, decimals, and integers. Upon successful completion of this course, the student will progress to an algebra course the following year. Not college prep.

Class sizes are limited to 18 to allow the teacher to adequately support students performing below grade level.

ALGEBRA

Grades: 9,10

Credit: 1

Prerequisite: Teacher recommendation and/or state testing scores

Max Class Size: 25

This course is the recommended course for freshman students planning to attend college after high school. It is required for high school graduation.

Algebra is a study of the properties of real numbers as they apply to the solving of linear, quadratic, and fractional equations. This course also includes sections on negative numbers, inequalities, polynomials, and graphing. College Prep.

Class sizes are limited to 25 to allow the teacher to adequately support students performing at grade level.

ALGEBRA SUPPLEMENT

Grades: 9,10

Credit: 1

Preferred Max Class Size: 6

Prerequisite: Teacher recommendation and/or state testing scores

This course is intended for students who are placed in Algebra, but their standardized test scores and/or class performance indicate the need for extra support to be successful in Algebra. This course will be run concurrently with Algebra.

Class size is limited to 6 to allow for individual support for struggling students.

GEOMETRY

Grades: 9,10,11

Credit: 1

Prerequisite: Algebra (Grade C or better) or equivalent

Max Class Size:25

This course is designed to provide a better understanding of a mathematical system, a knowledge of basic structures of geometry, spatial visualization, a basic understanding of coordinate geometry, and inductive and deductive reasoning patterns. A study of parallel and perpendicular lines, congruent triangles, similar polygons, circles, construction, and area and volume relationships will be included. College prep.

Class sizes are limited to 25 to allow the teacher to adequately support students performing at grade level.

GEOMETRY B

Grades: 10,11,12

Credit: 1

Prerequisite: Algebra or equivalent and teacher recommendation

Preferred Max Class size:18

This class has the same course outline as Geometry. Students are placed in Geometry B by the instructor's recommendation. Not College Prep.

Class sizes are limited to 18 to allow the teacher to adequately support students performing below grade level.

ALGEBRA II

Grades: 10,11,12

Credit: 1

Prerequisite: Algebra and Geometry (Grade C or better)

Max Class Size: 25

Algebra II reviews and expands on topics presented in algebra and geometry and introduces the students to more advanced mathematics. The study of exponentials, logarithms, basic statistics, and basic trigonometry is included. The course is a must for students who plan on going to college and those interested in such courses as chemistry, physics, and advanced biology. College prep.

Class sizes are limited to 25 to allow the teacher to adequately support students performing at grade level.

INTERMEDIATE ALGEBRA

Grades: 11,12

Credit: 1

Prerequisite: Algebra, Geometry or Geometry B or equivalent

Preferred Max Class Size: 16

This class has the same course outline as Algebra II. This course is not as in-depth and is designed for students desiring another math credit but whose previous math courses included Algebra/Math Supplement and Geometry B. Students are placed in Intermediate Algebra by the instructor's recommendation. Not College Prep

Class sizes are limited to 16 to allow the teacher to adequately support students performing below grade level.

PRE-CALCULUS

Grades: 11,12

Credit: 1

Prerequisite: Algebra II (Grade C or better)

Max Class Size: 25

***DUAL CREDIT OPPORTUNITY WITH MILES COMMUNITY COLLEGE* (M151 PreCalculus - 4 credits)**

This is an advanced course designed to prepare a student for college courses in calculus, abstract algebra, and probability. A strong background in algebra and geometry is essential before taking this course. Functions, logarithms, trigonometry, and analytic geometry will be studied. Vectors and matrices will be included as time allows.

TRIGONOMETRY

Grades: 11,12

Credit: .5

Prerequisite: Algebra II or Intermediate Algebra

Max Class Size: 25

DUAL CREDIT OPPORTUNITY WITH MILES COMMUNITY COLLEGE (provided it is taught by a teacher approved by MCC.) (M122 College Trigonometry - 2 credits)

This **SEMESTER** course is designed for those students who have successfully completed Intermediate Algebra. It is also designed for those students who have completed Algebra II, do not feel that they are ready for Precalculus, but wish to strengthen (reinforce) their math abilities before post-secondary studies. Topics include radian and degree measure, the unit circle, right triangle trig, graphs of sine, cosine, and other functions, fundamental identities, and more.

Class sizes are limited to 25 to allow the teacher to adequately support students.

BASIC STATISTICS

Grades: 11,12

Credit: .5

Prerequisite: Algebra II or Intermediate Algebra (Grade C or better)

Max Class Size: 25

This **SEMESTER** course is designed for those students who have successfully completed Intermediate Algebra or Algebra II. It can be helpful for students interested in reading and interpreting basic statistical data. Topics include sampling and experimental design, display of data, measures of central tendency, probability, normal curves, and sampling distributions, and an introduction to statistical tests.

Class sizes are limited to 25 to allow the teacher to adequately support students.

CALCULUS

Grade: 12

Credit: 1

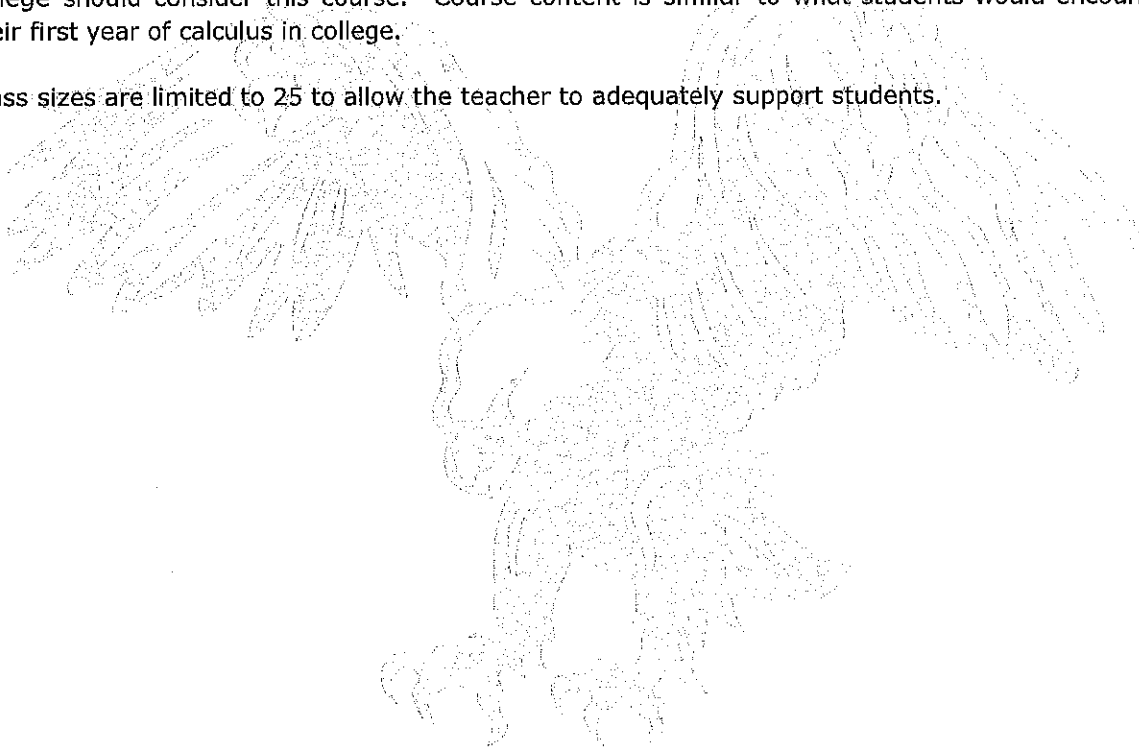
Prerequisite: Pre-Calculus (Grade C or better)

Max Class Size: 25

DUAL CREDIT OPPORTUNITY WITH MILES COMMUNITY COLLEGE(M161 Survey of Calculus - 4 credits)

This is an advanced course where students may receive college credit if they pass a test with a required grade at the end of the year. All students anticipating entering a math or science field in college should consider this course. Course content is similar to what students would encounter in their first year of calculus in college.

Class sizes are limited to 25 to allow the teacher to adequately support students.



MUSIC DEPARTMENT

CONCERT CHOIR

Grades: 9,10,11,12

Credit: 1

Prerequisite: None

This is a year-long course that explores choral music from a wide variety of cultures and time periods through study and performance. The core curriculum emphasizes the basics of vocal technique, musicianship, sight-reading, music theory, and music history. Students are required to participate in one evening concert each quarter, Eastern A Festival, District Music Festival and a few other performance opportunities that arise throughout the year.

CONCERT BAND

Grades: 9,10,11,12

Credit: 1

Prerequisite: Previous experience playing an instrument

The concert band is the underclassman or lower level participating band class. The goal of this class is to continue to develop and better understand the fundamentals of music and work on elements of performance at a difficulty that reflects the average player of the ensemble. This group participates in marching band, pep band, home concerts, and music festival. The members of this group may also participate in drum line, jazz band, and solo/chamber music. **(Class will only be offered depending on number of students participating in band).**

SYMPHONIC BAND

Grades: 9,10,11,12

Credit: 1

Prerequisite: Previous experience playing an instrument

The Sidney High symphonic band is the upperclassmen or higher level participating band class. The goal of this class is to continue to develop and advance the understanding of the fundamentals of music and further the knowledge of the elements of performance. This is a competitive ensemble that participates in marching band, pep band, and music festival, as well as travels to the Eastern A Festival. The members of this groups may also participate in drum line, jazz band, and solo/chamber music, as well as honor band if nominated by the teacher.

BEGINNING GUITAR

Grades: 9,10,11,12

Credit: .5

Prerequisite: None

Class Size: 10

In this class, students will learn to play the guitar. They will also learn music history and music theory skills. Students who already know how to play guitar well are encouraged to take an independent music study class instead to hone their skills.

BEGINNER PIANO

Grades: 9,10,11,12

Credit: .5

Prerequisite: None

Class Size: 8

In this class, students will learn to play the piano. They will also learn music history, and music appreciation skills. Students who already know how to play piano exceptionally well are encouraged to take an independent music study class instead to hone their skills.

MUSIC TECHNOLOGY

Grades: 9,10,11,12

Credit: .5

Prerequisite: None

Class Size: 15

Music technology will cover various resources that are available to Sidney High School students including music writing, recording, and sound mixing. Along with getting familiar with the music lab equipment, students will also receive an education in music theory, composition, and music history. Students do not need to have any experience in music reading to take this course.

MUSIC THEORY

Grades: 9,10,11,12

Credit: .5

Prerequisite: None

Class Size: 15

Theory is the study of musical form. This class will be centered around learning how written music is created and understood. Students will also be learning piano skills in class, as well as composing and transposing with Finale. Students are encouraged to know how to read music to take this class.

SCIENCE DEPARTMENT

PHYSICAL SCIENCE

Grades: 9

Credit: 1

Prerequisite: None

Class Limit: 22

This course is designed to introduce students to the beginning concepts of physics and chemistry, to provide students with a basic knowledge of the physical and chemical phenomena encountered in everyday life, and to stimulate scientific thought and inquiry. Students will develop skills needed for systematic problem-solving in science and skills in the laboratory through hands-on activities. Homework is an expectation of this class. The basic prerequisite to this class is completion of eighth grade.

ADVANCED PHYSICAL SCIENCE

Grades: 9

Credit: 1

Prerequisite: Middle School teacher recommendation, Algebra with a "C" or better

Class Limit: 17

This course will cover the same material as the regular physical science class but will emphasize preparing the student for advanced chemistry or physics work. More out of class time is required than for physical science. Homework is an expectation of this class.

BIOLOGY

Grades: 10

Credit: 1

Prerequisite: None

Class Limit: 22

Biology is a comprehensive study of the major areas of biology such as cells, microorganisms, genetics, evolution, plants, animals, and ecology. The general concepts of development from simple to complex, evolutionary relationships, and the interactions of all organisms and their environments will be stressed.

CHEMISTRY

Grades: 10,11,12

Credit: 1

Prerequisite: Physical Science, Algebra, Geometry and current or previous enrollment in Biology

Class Limit: 18

The course of chemistry is a study of the chemical properties of matter. The course is a laboratory-oriented class with many lab experiments to help students learn the theories in chemistry through experimentation. The study of chemistry offers the students many practical mathematical applications previously studied in Algebra and Geometry and allows the students to practice the scientific method. Homework is an expectation of this class. This class is needed to prepare students for many college science courses and for college chemistry. College prep.

CHEMISTRY II

Grades: 11,12

Credit: 1

Prerequisite: Chemistry, current enrollment in Physics, or teacher approval

Chemistry - The Next Chapter. This course continues where chemistry stopped and is to include qualitative analysis and organic chemistry. Dual credit through Miles Community College.

Class limit:10

ANATOMY AND PHYSIOLOGY

Grades: 11,12

Credit: 1

Prerequisite: Biology or Chemistry with a "B" or better

Class Limit: 20

This is a study of the cells, tissues, organs and systems that make up the human body. The course emphasizes the structures and functions and the contribution each makes to the survival of the individual.

ADVANCED BIOLOGY

Grades: 11,12

Credit: 1

Prerequisite: Biology with a grade of a "B" or better or completed Chemistry

DUAL CREDIT OPPORTUNITY FROM MILES COMMUNITY COLLEGE

The advanced biology course will include many topics regularly covered in a college biology course. The course differs significantly from the usual first high school biology course with respect to the kind of textbook used, the range and depth of topics covered, the kind of laboratory work done by students, and the time and effort required of students. The topics to be covered will be divided into molecules and cells, genetics and evolution, and organisms and populations.

Laboratory experience will be included. Descriptive and experimental laboratory exercises will encourage the development of skills such as detailed observation, accurate recording, experimental design, manual manipulation, data interpretation, statistical analysis and operation of technical equipment. Laboratory assignments will also offer an opportunity for students to learn about problem solving, the scientific method, the techniques of research, and the use of scientific literature.

Class Limit: 20

PHYSICS

Grades: 11,12

Credit: 1

Prerequisite: Current enrollment in Algebra II or Pre-Calculus

The Physics course is the study of the physical properties of matter. The energy relationship of matter and its changes takes you into a study of topics such as velocity, acceleration, work, power, sound, heat, light, electricity, and nuclear energy. The course is a laboratory oriented class with many lab experiments and demonstrations to help students learn the theories and applications of physics and allows the student to practice the scientific method. The study of physics offers the students many practical mathematical applications previously studied and allows the student to integrate many math skills learned in algebra, geometry, and other math classes preparing the student for college calculus. Homework is an expectation.

Class Limit: 18

PHYSICS II

Grades: 12

Credit: 1

Prerequisite: Physics or instructor approval

Physics II is the course of physics using advanced mathematical concepts and allows the student to practice the scientific method

Class Limit:10

SCIENCE PROJECT

Grades: 9,10,11,12

Credit: 1

Prerequisite: None

Science Project class is a full year course designed to allow students to plan and prepare a project. The project can then be taken to one of the Montana Math-Science fairs held each spring. The purpose of the course is to give students access to faculty to help plan and prepare the project, access to equipment to develop the project to its fullest, and time to conduct the necessary research and development of the project.

Class Limit:10

ASTRONOMY

Grades: 10,11,12

Credit: 1

Prerequisite: Algebra or teacher approval

Come see the stars, sun, planets and other heavenly bodies. We will explore the night sky and observe our sun, moon, planets, stars and galaxies. We will study stars, planets, galaxies, black holes and relativity. The astronomical universe will be studied in three-six week modules. Students will be required to have a minimum of 10 hours of nighttime observations with the telescope.

Class Limit:18

FORENSICS SCIENCE

Grades: 11,12

Credit: 1

Prerequisite: Chemistry or Physics is desirable

This year long class will offer an overview of the science of forensics to understand what a forensics scientist does. Practical applications will cover such topics of DNA analysis, fingerprints, questioned documents, impression evidence, forensic engineering as well as legal and ethical issues.

Class Limit: 10

CAVEMAN TO CHEMIST

Grades: 11,12

Credit: 1

Prerequisite: Biology

Caveman to Chemist is a course exploring landmark technologies on the road to modern industrial civilization. We will begin by learning to make fire and stone tools and progress up through plastics and pharmaceuticals. The grade in the course will be determined by the number of technologies which the student masters. Although this is not a college-prep chemistry course, it is very much a course about doing things. The student will not only read about these landmark technologies, but he/she will be expected to make things like paper, metals and batteries from scratch. By the time the course is completed, the student will have an intimate knowledge of most of the top 25 chemicals used in modern industry.

Class Limit: 15

SOCIAL SCIENCE DEPARTMENT

SOPHOMORE YEAR: CHOOSE 2 OR ADVANCED WORLD HISTORY

FOUNDATIONS OF WORLD HISTORY

Grades: 10

Credit: .5

Prerequisite: None

This one-semester course will cover: Prehistory, River Valley Civilizations (Egypt, Mesopotamia, India, China), World Religions (Judaism, Zoroastrianism, Hinduism, Buddhism, Chinese philosophies), Ancient Greek history and culture, Africa/MesoAmerica, Ancient Rome, and Islam. These units will stress location, geography, and cultural developments. Satisfactory completion of this course will account for half of the required one credit necessary in fulfilling the world history graduation requirement.

CLASS LIMIT: 24/SECTION

MEDIEVAL TO MODERN WORLD HISTORY

Grades: 10

Credit: .5

Prerequisite: None

This one-semester course will cover: Islam, Middle Ages Europe and Japan, Renaissance/Reformation, Absolutism in Europe, French and other Revolutions, Industrialization, Victorian Era, Colonization in Africa and Asia, Nationalism (Unification of Germany and Italy), and Industrialization in Victorian England. These units will stress location, geography, and cultural developments. Satisfactory completion of this course will account for half of the required one credit necessary in fulfilling the world history graduation requirement.

CLASS LIMIT: 24/SECTION

MODERN WORLD HISTORY

Grades: 10

Credit: .5

Prerequisite: None

This one-semester course will cover: World War I, Interwar Years (Rise of Hitler, Mussolini, and Stalin), World War II, India/Pakistan Independence, Cold War, Communist China, Korean and Vietnam Wars, Cambodian genocide, Decolonization in Southeast Asia and Africa, Iran and the Middle East. These units will stress location, geography, and cultural developments. Satisfactory completion of this course will account for half of the required one credit necessary in fulfilling the world history graduation requirement.

CLASS LIMIT: 24/SECTION

ADVANCED WORLD HISTORY

Grades: 10

Credit: 1

Prerequisite: Summer assignment and/or counselor and teacher recommendation

DUAL CREDIT OPPORTUNITY THROUGH MILES COMMUNITY COLLEGE

This year-long class will emphasize the key historical events that have contributed to the social, political, and industrial state of the world today. These events occur from prehistory to the present and include the rise of ancient civilizations, classical era, Asia and Africa, exploration, the Enlightenment, the French and Industrial Revolutions, Imperialism, and the main global events leading to the emergence of new nations in the 21st century. The major focus will be on the College Board's 6 key concepts for Advanced Placement World History. Dual credit or the AP exam is required. Teachers and counselors will determine who can enroll in this class.

CLASS LIMIT: 20/SECTION

JUNIOR YEAR: CHOOSE U.S. HISTORY OR ADVANCED U.S. HISTORY

U.S. HISTORY

Grades: 11

Credit: 1

Prerequisite:None

This course is designed to provide a historical understanding of the United States from its beginnings and through its progression and development to the present day. We will take an in-depth look at major events including but not limited to the Manifest Destiny, the Civil War and Reconstruction, Imperialism and World War I, the Great Depression and the New Deal, World War II, the Cold War, Civil Rights, Korea/Vietnam, etc... and will explore how these events impacted the United States and still continue to do so today.

CLASS LIMIT: 24/SECTION

ADVANCED U.S. HISTORY

Grades: 11

Credit: 1

Prerequisite: None

DUAL CREDIT OPPORTUNITY THROUGH MILES COMMUNITY COLLEGE

This course is designed to provide a historical understanding of the United States as well as to further prepare students for college. Students will be asked to write papers, participate in class discussion and mock trials, and complete source readings. We will also study most of the major events that are covered in the regular U.S. History class but with more depth and analysis. Students are expected to enroll in dual credit through MCC or take the AP exam.

CLASS LIMIT: 20/SECTION

SENIOR YEAR: CHOOSE FOUNDATIONS OF GOVERNMENT AND ONE OF THE FOLLOWING CLASSES TO FULFILL THE GOVERNMENT CREDIT FOR GRADUATION. STUDENTS MAY ALSO CHOOSE TO TAKE APPLIED GOVERNMENT.

FOUNDATIONS OF US GOVERNMENT

Grades: 12 (11 in second semester)

Credit: .5

Prerequisite: None

This one-semester course is required to graduate for those not completing Applied Government. Themes include: theories of the origins of government; federal, state, and local government functions and purposes; British foundation of our government and its influence on the American system; early colonial charters to the modern Constitution will be explored. The class emphasis is to prepare students for their rights and obligations as citizens in our democracy.

CLASS LIMIT: 24/SECTION

CRIMINAL LAW AND PROCEDURES

Grades: 11-12

Credit: .5

Prerequisite: None

DUAL CREDIT OPPORTUNITY THROUGH DAWSON COMMUNITY COLLEGE

This one-semester course will provide students practical information and problem solving opportunities that develop the knowledge and skills necessary for survival in our law-saturated society. Class topics will focus on the rule of law, due process, the court system, lawyers, and the criminal justice process (investigation, pre-trial, trial and sentencing). Real-world scenarios and guest speakers representing the various aforementioned areas will be a touchstone of the class and will require interactive participation of students. Satisfactory completion of this course will earn students three dual enrolment credits through DCC (if paperwork is completed by students and their parents) as well as account for half of the required one credit necessary in fulfilling the government graduation requirement. Enrollment will be based on a case-by-case basis with preference given to seniors, attendance, and teacher/guidance recommendations.

CLASS LIMIT: 24/SECTION

CIVIL LAW

Grades: 11-12

Credit: .5

Prerequisite: None

DUAL CREDIT OPPORTUNITY THROUGH DAWSON COMMUNITY COLLEGE

This one-semester course will provide students practical information and problem solving opportunities that develop the knowledge and skills necessary for survival in our law-saturated society. Class topics will focus on the rule on civil law including: torts, contract law, warranties, insurance, landlord-tenant relations, workplace law and family law. Real-world scenarios and guest speakers representing the various aforementioned areas will be a touchstone of the class and will require interactive participation of students. Satisfactory completion of this course will earn students two dual enrolment credits through DCC (if paperwork is completed by students and their parents) as well as account for half of the required one credit necessary in fulfilling the government graduation requirement. Enrollment will be based on a case-by-case basis with preference given to seniors, attendance, and teacher/guidance recommendations.

CLASS LIMIT: 24/SECTION

CONSTITUTIONAL LAW

Grades: 11-12

Credit: .5

Prerequisite: None

DUAL CREDIT OPPORTUNITY THROUGH DAWSON COMMUNITY COLLEGE

This one-semester course will be offered on **odd-numbered years** and will focus on the history, text, and relevant court cases regarding constitutional amendments and principles. Focus will be placed on the First Amendment (Freedom of Speech, Press and Religion), the Fourth Amendment (Right to Privacy), Fifth Amendment (Due Process), and the Fourteenth Amendment (Civil Rights Movement from the cases of Dred Scott to Brown and Obergefell). The class will blend the major current events of the day with an understanding of the rights involved and the landmark court cases that helped establish those rights and reshape the landscape of America will be highlighted. Satisfactory completion of this course will earn students two dual enrolment credits through DCC (if paperwork is completed by students and their parents) as well as account for half of the required one credit necessary in fulfilling the government graduation requirement. Enrollment will be based on a case-by-case basis with preference given to seniors, attendance, and teacher/guidance recommendations.

CLASS LIMIT: 24/SECTION

POLITICAL PARTIES

Grades: 11-12

Credit: .5

Prerequisite: None

DUAL CREDIT OPPORTUNITY THROUGH DAWSON COMMUNITY COLLEGE

This one-semester course will be offered on **even-numbered (election) years** to help promote greater civic participation by ensuring that when it comes time to vote in an election or take a stand on an issue, students can and will do so from a thoughtful and informed perspective. The class will focus on understanding the differences between conservative and liberal ideology, where political beliefs arise, the platforms of the main political parties, and elections. Satisfactory completion of this course will earn students two dual enrolment credits through DCC (if paperwork is completed by students and their parents) as well as account for half of the required one credit necessary in fulfilling the government graduation requirement. Enrollment will be based on a case-by-case basis with preference given to seniors, attendance, and teacher/guidance recommendations.

CLASS LIMIT: 24/SECTION

APPLIED GOVERNMENT

Grades: 12

Credit: 1

Prerequisite: Summer assignment and/or counselor and teacher recommendation

DUAL CREDIT OPPORTUNITY THROUGH MILES COMMUNITY COLLEGE

Required to graduate for those not completing Foundations of Government and required for completion of the Honors Curriculum. Applied Government will take a college-prep approach to understanding the formation and application of the United States government by evaluating the historical foundation of the Constitution, its evolution and modifications, historical interpretations, and current trends. The future of the national, state, and local governments will also be explored. Emphasis will be placed on understanding not only how the government runs, but the theories behind its application as essential to contemporary and historic trends. This class will largely consist of independent projects related to current issues including moot courts, legislative simulations, posterboards, and Harknesses. Satisfactory completion of this course will earn students three dual enrolment credits through MCC (if paperwork is completed by students and their parents) as well as account for half of the required one credit necessary in fulfilling the government graduation requirement. Enrollment will be based on a case-by-case basis with preference given to seniors, attendance, and teacher/guidance recommendations.

CLASS LIMIT: 16/SECTION

ADDITIONAL SOCIAL SCIENCE ELECTIVES

AMERICAN CULTURE I

Grades: 12

Credit: .5

Prerequisite: Concurrent enrollment of U.H. History and/or successful completion of U.S. History

This one-semester course will analyze the development of American popular culture throughout the first half of the 20th century. The goal of this course will be to learn about the aspects of American society that we are unable to cover in the 11th grade U.S. History course such as music, film, television, fashion, dance, and sports. Priority will be determined on a first come, first serve basis, in addition to teacher's discretion.

CLASS LIMIT: 28/SECTION

AMERICAN CULTURE II

Grades: 12

Credit: .5

Prerequisite: Concurrent enrollment of U.H. History and/or successful completion of U.S. History

This one-semester course will analyze the development of American popular culture throughout the second half of the 20th century and into the 21st century. The goal of this course will be to learn about the aspects of American society that we are unable to cover in the 11th grade U.S. History course such as music, film, television, fashion, dance, and sports. Recommended to take following American Culture I, though not required. Priority will be determined on a first come, first serve basis, in addition to teacher's discretion.

CLASS LIMIT: 28/SECTION

SCHOOLS OF PSYCHOLOGY

Grades: 11-12

Credit: .5

Prerequisite: None

This course is a study of the working of man's brain as well as an introductory look at the behavior between family, peers and sexes. As an introductory course, a foundation will be established concerning the acquisition of terms and differing psychological theories. Students will differentiate between the various schools of psychology (behaviorism, psychoanalysis, cognitive, social learning, biological, humanism, and trait theories) and how each explains the root of behavior and appropriate treatment.

CLASS LIMIT: 24/SECTION

SOCIAL AND DEVELOPMENTAL PSYCHOLOGY

Grades: 11-12

Credit: .5

Prerequisite:None

This one-semester course is an extension of the schools of psychology course and builds on earlier topics regarding the working of man's brain. The focus of this class will be the interaction amongst individuals and groups, cognitive development and maturation and their effects on personality. Other class topics will include social psychology and the interactions between people and other groups as well as behavior between family, peers and sexes.

CLASS LIMIT: 24/SECTION

ABNORMAL PSYCHOLOGY

Grades: 12

Credit: 1

Prerequisite:Successful Completion of Schools of Psychology Course

DUAL CREDIT OPPORTUNITY THROUGH MILES COMMUNITY COLLEGE

Abnormal Psychology takes a college-prep approach to understanding the distinction between "normal" and "abnormal" behavior and the blurred line between the two. Students will interpret the continuum model of abnormal behavior and review the classifications found within the Diagnostic and Statistical Manual of Mental Disorders to understand how disorders are characterized and classified. Focus on the discussion of the nature, causes, and treatments of abnormal disorders will be explored.

CLASS LIMIT: 16/SECTION

CURRENT ISSUES

Grades: 12

Credit: .5

Prerequisite: None

CLASS LIMIT: 24/SECTION

This one-semester course will cover domestic issues providing basic background information and the analysis of key issues. Students will also be provided with the knowledge and skills they need to make sense of the headlines and form reasoned judgments. Students will put these learned skills into practice when completing independent projects relating to selected government topics, which will be a major part of this class.

APPLIED ECONOMICS

Grades: 11,12

Credit: .5

Prerequisite:None

CLASS LIMIT: 24/SECTION

This one-semester course introduces the basic principles of economics, including supply and demand, opportunity costs and trade-offs, the market system, scarcity and choices, forms of business organizations, economic performance and instability, federal and monetary policy, and money and banking.

EDUCATION 101

Grades: 11,12

Credit: .5

Prerequisite:None

CLASS LIMIT: 24/SECTION

Exploring a Career in Education is a Dual Credit discussion-centered course designed for juniors and seniors who are interested in entering the field of education. This course will help to develop a critical understanding of public education and the role of classroom teachers in today's public schools. It will discuss what it means to know, to learn, and to teach. It will examine how public schools developed and changed over the last 100+ years and how the teachers' roles have evolved accordingly. It will look at challenges facing teachers today and society's expectations of teachers and public schools through short and longer texts of theory, practice, and teacher narrative. Assessments will include responses to texts, writing, both formal and informal, discourse, and presentation. Most importantly, it will begin to see the classroom as a place of work, of community, of inclusion, and of infinite promise.

LEADERSHIP

Grades: 10, 11,12

Credit: .5

Prerequisite: Counselor, Teacher and/or Adm recommendation

CLASS LIMIT: 12/SECTION

This one-semester course would help students develop individual and group leadership skills as well as putting those skills into practice within the Sidney community. Students in this class will discuss topics including defining leadership and discussion of the qualities of a leader, parliamentary procedure (Robert's Rules of Order), and public speaking. Students will put these learned skills into practice by participating in service projects and shadowing a community leader. It is recommended for students who wish to be involved in participating in various school clubs/class leadership, planning school activities, promoting positive school spirit, and developing lifelong leadership skills.