

Murray County Central High School

Registration Information

2018-2019 School Year

The Course Catalog is available at www.mcc.mntm.org under the “Central High School” link

- All students must register for 16 “blocks.” Your registration form indicates how many “blocks” correspond to a particular class.
- Some classes will be “skinnies” and some classes will meet for an entire “block.” Students need only be concerned about choosing enough classes for a full schedule. Course placement and course length will be determined by the scheduling process.
- Some student course requests will not be met due to scheduling conflicts and/or low enrollment courses that are dropped. The alternative courses chosen by the student will then be scheduled.
- Courses should be selected carefully, keeping in mind the graduation requirements. **STUDENTS ARE RESPONSIBLE FOR MAKING SURE THEY HAVE EVERYTHING THEY NEED TO MEET GRADUATION REQUIREMENTS!**
- Registration requests will not be entered without a parent signature.
- Classes may not be dropped or changed once the term has begun.
- Murray County Central High School requires a minimum of 30 credits to earn a diploma. The word “minimum” is emphasized, since we expect the vast majority of our students to exceed that requirement as they strive to reach their full potential.
- Please check your registration form carefully to see which classes you are required to take.
- Above all, if you have any questions, please do not hesitate to ask Mrs. Beech for assistance.

Registration Deadline: February 21, 2018. **If you do not turn in your registration form by this date, your classes will be chosen for you.**

If parents have any questions, they can call Mrs. Beech at 836-6184, ext. 4100, and/or come in for an appointment.

College/University Admissions Requirements

Four-Year State University Programs

You should have completed the following courses during high school:

- Four years of English (including composition and literature)
- Three years of math (two years of algebra and one year of geometry) *The University of Minnesota now requires four years of Math for all applicants.
- Three years of science (including one year each of a biological and a physical science)
- Three years of social studies (including one year of U.S. history and geography)
- Two years of a single world language
- One year of either world culture or fine arts.

Two-Year State College Programs

What it takes to get in:

- A high school diploma or GED
- Even if you do not have a high school diploma or a GED, you may still be admitted if you can demonstrate potential for success in college.
- Once you have been admitted to a community or technical college, you will be required to take an assessment test. This test is used to determine which English and Mathematics classes are appropriate for you.

NCAA Requirements

Students planning to participate in Division I and Division II college sports need to register with the NCAA Initial-Eligibility Clearinghouse and meet eligibility requirements. Students should check www.ncaa.org or call 877-262-1492 for more information.

Murray County Central High School

AGRICULTURE/TECHNICAL EDUCATION

AG MECHANICS:

.5 credit

Grades 10-12

This course connects scientific principles with mechanical skills. The course will develop understanding and skills in the traditional areas of agricultural mechanics including the following: safety, Engine Theory, Small Engines, basic car care/maintenance, and Hydraulic/pneumatic systems. Shop experience and classroom information will be integrated, as appropriate throughout the class.

ANIMAL SCIENCE:

1 credit

Grades 9-12

This course will focus on the science of animal agriculture. Topics in animal physiology, nutrition, breeds, care and management will be included. Animals of study will include both traditional and non-traditional areas. Lab activities will be an important part of this class. This course can be a valuable aid to understanding biology, anatomy and genetics. The University of Minnesota accepts this course as an acceptable science credit toward enrollment.

BEGINNING AG SHOP:

.5 credit

Grades 9-12

This class will introduce students to the shop facilities in ag education. Students will study a variety of topics that will make them better suited for future shop oriented classes in ag education. Topics will include safety, first-aid, tool identification, woodworking, metalworking, electricity, and others. This class is a prerequisite for Ag Welding, Ag Structures, Small Engines, and Ag Electricity/Plumbing. Students will complete their own sawhorse in the shop as one of their projects as well as completing some basic welds in the shop.

ELECTRICITY/PLUMBING:

PREREQUISITE: Beginning Ag Shop

.5 credit

Grades 10-12

This class will study the skills needed to become a capable worker in the field of electricity and plumbing. Topics to be covered in electricity include Ohm's Law, series circuits, parallel circuits, combination circuits AWG (American Wire Gauge), AC vs. DC circuits, general purpose, small appliance, feeder circuits, and individual circuits. Students will first learn about these concepts in class and will be followed up by shop activities with students working with live power and different wiring concepts. The plumbing portion of this class will cover areas such as basic plumbing fixtures, control valves, cutting pipes, PVC and CPVC fittings, installation of a toilet, water systems, installation of a sink, and installation of a water heater. Students will learn about these concepts in the classroom and then participate in hands on activities in the shop.

FARM BUSINESS/ECONOMICS:

.5 credit

Grades 10-12

This class is designed to go over depreciation costs associated with machinery/buildings, Break even costs with livestock/grain farming, and marketing of livestock/grain. This class is set up to cover more in-depth skills in different areas of vocational practices – This class would alternate with Structures on every other year basis. Agricultural education prepares students for successful careers and a lifetime of informed choices in global agriculture, food, fiber, and natural resources systems. It is our mission as teachers to inform the students of the choices that they have in the agricultural job environment.

GROWING AMERICA:

1 credit

Grades 11-12

This class is set up to cover more in-depth skills in different areas of vocational practices. This class would be a year round skinny that would take place in the greenhouse. The main concept of this class is to use different methods to do a mass production of plants for the school lunches. Target areas would be greenhouse maintenance, hydroponics, garden design/layout, and food processing. This will be primarily a hands-on class. Agricultural education prepares students for successful careers and a lifetime of informed choices in global agriculture, food, fiber, and natural resources systems. It is our mission as teachers to inform the students of the choices that they have in the agricultural job environment.

LANDSCAPING:

.5 credit

Grades 10-12

Students will learn the basic principles of landscape design and construction. They will use the methods learned to create detailed landscape designs, select proper landscape materials and construct a landscape project at a homeowner's site.

SENIOR SHOP:

PREREQUISITE: (2 of the following classes) Welding, Electricity/Plumbing, Small Engines, Structures, and Advanced Welding

.5 credit

Grade 12

Students will spend the entire time working on their project. The cost of the project will be the responsibility of the student. Students must be pre-approved from the instructor with an acceptable project.

SMALL ENGINES:

PREREQUISITE: Beginning Ag Shop

.5 credit

Grades 10-12

This class will study the skills used by small engine technicians in today's industry. Topics will include small engine tools, horsepower, combustion, engine components, carburetors, internal vs. external engines, fuel systems, troubleshooting, fuel injection systems, alternators, ignition systems, governors, and complete disassembly and assembly of small engines. This class will also work on experimental projects such as changing fuel systems for better fuel, fuel power ratio, engine rebuilds, and carburetor rebuilds. Personal projects will be allowed depending on time

allowed. Students will learn about these concepts in the classroom and then participate in the hands on learning in the shop. Students will be required to completely disassemble and reassemble one small engine on their own.

STRUCTURES:

PREREQUISITE: Beginning Ag Shop

.5 credit

Grades 10-12

This class will study the skills necessary for today's agricultural construction industry. Topics will include safety, tools used in construction, floor framing, wall framing, rafter designs, stairs, window and door installation, blueprint reading insulation, and other areas relating to construction trades. This class will be responsible for completing one large project (to be determined) for the public. Students may have time to complete personal projects relating to construction trades.

WELDING:

PREREQUISITE: Beginning Ag Shop

.5 credit

Grades 10-12

This class will study the skills necessary for today's agricultural welding industry. Topics will include Safety, SMAW (Shield Metal Arc Welding), GMAW (Gas Metal Arc Welding), metal fabrication, TIG (Tungsten Inert Gas Welding), oxy-acetylene welding, PAC (Plasma Art Cutting), brazing and soldering. Student will first learn about these concepts in the classroom and will then work in the shop on these different areas of welding. This course will end with personal projects for students

WOODS I:

.5 credit

Grades 10-12

Students will learn about the six different types of wood that we will be using to build projects. Time will be spent in the classroom, but the majority of time is spent in the woodshop building projects. The students will be building a piggy bank, two different types of cutting boards, and a candy dish. Students will pay for all projects upon completion of class.

WOODS II:

PREREQUISITE: Woods I

.5 credit

Grades 10-12

Students will be building a cedar chest. All time is spent in the shop working on this project. Other small projects may be added if time permits.

ART

ART I:

1 credit

Grades 9-10 Required

Quarter I is a basic introduction in the areas of drawing. Most course work will be two-dimensional with emphasis on a variety of techniques and materials relating to the Elements and Principles of Art in design. Project units included are skyscraper perspective (Modern Realism), portrait study (Cubism), still life drawing (Pointillism), dreamscape (Surrealism) and grid drawing (Dadaism). Charcoal, conte, colored pencils, colored flair and markers, pen and ink, and chalk are the mediums used. Students will construct a portfolio which will hold information surrounding the student's art experiences whether it be in the producing or writing realms. Quarter II students will explore a variety of painting skills and techniques. Tempera, watercolor, and acrylic are the mediums that will be covered. All units are integrated with the development of painting styles including Realism, Fauvism, Romanticism, Post-Impressionism, Op Art, and Abstract Expressionism.

ART II:

PREREQUISITE: Art I

.5 credit

Grades 10-12

Art II is a class intended to expand the student's knowledge and experience in the 2nd and 3rd dimensional areas. Graphic design, pottery, airbrush, sculpture, drawing, painting, mural painting, basket weaving, and claymation are several of the areas that student may choose from. For all projects, emphasis will be placed upon composition and the use of elements and principles of design. One will demonstrate the use of advanced techniques and style by using several different mediums to create a specific mood or feeling for the viewer. The above will be achieved by doing masterpiece studies, reports, critiques, series projects and independent work. Students will construct a portfolio which will hold information surrounding the students' art experiences whether it is producing or writing realism.

ART III:

PREREQUISITE: Art II

.5 credit

Grades 11-12

This studio course is planned so that students will learn additional techniques and creative thought processes as well as new applications for the skills and concepts learned in Art I. This will result in students having larger repertoires of responses for solving creative problems, and having a greater understanding and appreciation of the visual arts. This course will focus on the understanding and use of various aspects of two and three-dimensional art and art history, and may include drawing, painting and sculpture.

COLLEGE ART (Art 102-Foundations of Art and Design):

.5 credit

Grades 11-12

PREREQUISITE: Art II and Juniors-Top 1/3 of Class and Seniors-Top 1/2 of Class

In this course students explore the visual elements and the organizing principles of design in a 2D context. Various media will be used in studio assignments that investigate concepts covered in lectures and readings. A vocabulary will be established that will enable students to discuss their works in a group setting.

STUDIO ART

.5 credit

Grades 10-12

PREREQUISITE: Art I

This course is designed for any student who has completed Art 1 Drawing and Painting and is motivated to work ambitiously and independently throughout the quarter on developing their portfolio. The course provides a fundamental understanding of the varied aspects of art making and art history and prepares students for future advanced classes. Students will increase their awareness of the visual arts in their every-day life. Students will demonstrate and articulate knowledge of tools, skills, elements, principles and history of art. Students will make artistic choices based on evidence to improve or refine the artwork, and creatively express through crafted or modified use of elements, principles, skills, techniques and materials in the creation of their artwork.

BUSINESS/COMPUTERS

ACCOUNTING I:

.5 credit

Grades 9-12

This class will aid students in managing personal business affairs and in planning income and expenditures wisely. It will teach concepts that will be the basis for decisions that the student could make as a business professional, government official or citizen and enable the student to secure a marketable skill useful in business. This course is highly recommended for those seeking a career in business, accounting or possibly owning your own business someday. May be taken as an independent study with teacher approval.

ACCOUNTING II

PREREQUISITE: Accounting I

.5 credit

Grades 9-12

Students will use financial information and basic accounting principles to prepare accounts, ledgers, journals, financial statements, and payroll data as well as learn to account for uncollectible accounts. Students will complete the accounting records for a simulated business using the computer. May be taken as an independent study with teacher approval. A junior or senior taking this course and passing all areas with a B may be able to earn college credit.

BUSINESS ECONOMICS:

.5 credit

Grades 10-12 Meets Econ requirement

This class introduces students to the fundamental economic concepts of supply and demand, scarcity, markets, prices, and basic economic activities like stock market and money market simulations.

BUSINESS LAW:

.5 credit

Grades 10-12

Understanding law is an important element of each person's everyday life. This course is designed to give students a basic understanding of their legal rights and responsibilities including how to act when dealing with the courts, purchasing and selling items, handling the affairs of others, marriage, borrowing money, starting a business, retirement issues and cyber law. (offered on a 3-year rotation)

BUSINESS MANAGEMENT:

.5 credit

Grades 10-12

We will explore topics in various industries and cover the basic functions of management.

Topics discussed include entrepreneurship, innovation and creativity, opportunity recognition, leadership, and finance.

This course is being offered in partnership with the University of Iowa. Three transferable undergraduate college credits may be earned upon obtaining 70% on the final test and the student paying \$150 for the credits. Paying for college credits is optional for juniors and seniors after seeing the final test score.

In addition this class may choose to market a product to sell to MCC students and community members.

CAREER EXPLORATION:

.5 credit

Grades 9 or 10 Required

This course lets the students explore the career of their choice. This course centers on the completion of four different tasks.

1. Students will begin the decision-making process in career exploration by examining their own personal attributes and setting preliminary goals for their future.
2. Students will explore 3-5 career clusters and use decision-making processes for future career choices.
3. Students will conduct an in-depth investigation, including first-hand experiences, of the career cluster chosen. A display and mini-presentation on the findings will be given.
4. Students will participate in a job shadowing experience, and learn about filling out a job application and interviewing

COLLEGE COMPUTERS: (SMSU COMP 111 Digital World)

PREREQUISITE: Juniors-Top 1/3 of Class and Seniors-Top 1/2 of Class

.5 credit

Grades 11-12

This class is a College Now Course (COMP 111 at SMSU) offered for college credit.

Want to find out more about what's really going on in this digital world that we live in, and how to improve your efficiency and effectiveness using digital tools? In this course we will help you to better understand the digital devices you use every day and show you how to work more efficiently and effectively with computers and computer-based devices. We will also examine the effect digital technologies have on society and individuals, including new risks and new ethical issues.

COMPUTER SCIENCE:

.5 credit

Grade 9 Required

Students will learn skills that will help them be successful throughout high school and into the world of work. Topics are updated frequently to reflect current needs and prior knowledge. Software covered may include a review of Microsoft Word, Microsoft Excel and Microsoft PowerPoint. Digital storytelling and other ways to present projects in classes as well as digital citizenship will also be covered.

DIGITAL PHOTOGRAPHY

.5 credit

Grades 9-12

Students will learn the basics about taking digital photos, adjusting the photos using various computer software and how to create photos that last a lifetime. Students will need their own digital camera for the entire semester.

GRAPHIC DESIGN:

PREREQUISITE: Computer Science

.5 credit

Grades 9-12

Graphic Design is an introductory course that gives the students experience using Adobe software to explore various methods used to create and combine words, symbols and images to create a visual representation of ideas and messages.

GEEK SQUAD INTRO:

PREREQUISITE: Computer Science

.5 credit

Grades 10-12

This introductory course will introduce students to IT careers and the range of computer-based skills and competencies employers are seeking. Students will explore the IT world with fun activities. Students will engage in basic activities, see how computers are networked, understand how software is a fundamental part of our digital world, recognize the importance of cyber security, and gain a competitive advantage to the start of many careers. Upon successful completion of the course, students may receive credit from Minnesota West.

MULTIMEDIA:

PREREQUISITE: Computer Science

.5 credit

Grades 9-12

Students will learn to create movies with the use of video production equipment and software. Topics include video production, multimedia movies, creating commercials, storybooks, and more.

ON JOB TRAINING:

PREREQUISITE: An instructor approved job and signed OJT contract in their future field of interest by one week prior to the beginning of the quarter.

.5 or 1 credit

Grades 11-12

This class will utilize the work force of Murray County for the educational benefit of students. Students will gain knowledge from a professional in certain job fields (plumber, electrician, carpenter, etc.). Students will not be allowed to work for or with family members or relatives or at a current job. Students must be able to provide their own transportation to the job. This class may be taken for a quarter or a semester and is a non-paid learning experience. Weekly, on-line assignments will focus on goal setting, communication and other soft skills.

PERSONAL FINANCE:

.5 credit

Grades 10-12

Various aspects of personal financial planning are covered including budgeting, banking, investments, housing, insurance, taxes, estate planning, credit and its use, planning for retirement, and installment buying.

SENIOR TRANSITIONS:

PREREQUISITE: Careers

.5 credit

Grades 11-12

This course is designed to help students make the transition from high school to employment or post-secondary programs. Students will continue personal assessments, research of occupations and educational programs. Units may include resume writing, portfolio development, the college application process, financial aid, scholarship applications and related activities to assist seniors in taking the next step in their lives.

YEARBOOK:

.5 credit

Grades 10-12

During this class students will create the yearbook for MCC. Concepts learned are photo editing, page layout and design, publication software and journalism. This class may be taken again as a junior or senior, the second time with the focus on editing, creative direction and team guidance. Depending on students' success, they may repeat the class the following year to become an editor at the teacher's discretion. May be taken as an independent study with teacher approval.

FAMILY AND CONSUMER SCIENCE

BASIC FOODS:

.5 credit

Grades 10-12

This class covers good nutrition and wise food choices based on the new food pyramid. The focus will be on lowering fat in your diet, and discovering creative ways to lower fat in favorite recipes. Students will learn to plan healthy meals and also how to select healthy options when eating out.

CHILD DEVELOPMENT:

.5 credit

Grades 10-12

For students interested in working with children or planning to be a parent someday, this is a recommended course. The student will gain knowledge and skills in understanding the development of children, their needs, and caring for their health and safety. Students will have the opportunity to observe children. We will plan activities and lead playschool for children ages 3-5.

INTERIOR DESIGN:

.5 credit

Grades 10-12

This class will help you recognize factors that influence housing and interior design. This class will help you use sound decision-making skills to acquire housing throughout your life. We will study and apply the elements and principles of design and apply them to your living space. We will understand the use of color and its effects on a room's décor. Hands on activities and projects will enhance our learning in this class.

HEALTH AND PHY ED

ATHLETIC ENHANCEMENT

1 credit

Grades 10-12

This course is offered to enhance the attributes and skill set of the high school athlete. This course will improve both the health-related components of fitness (muscular strength, muscular endurance, body composition, flexibility, cardiorespiratory endurance) and the skill-related components of fitness (power, speed, agility, balance, coordination, and reaction time). Each student enrolled will follow a designed workout program that encompasses all areas of health skill-related fitness. Students will engage in pre and post-test assessments on these health and skill-related components of fitness to measure growth throughout the time spent in this class.

KINESIOLOGY:

.5 credit

Grades 11-12

The focus of this course is to identify and explore how the muscular and skeletal systems of the body interact to create movement. The students will thoroughly study body movement and how it correlates with everyday life. The course cumulates with an in-depth study of a particular movement.

RESPECT:

.5 Credit

Grades 9 and 10

This course is designed to improve the character and leadership traits among freshmen students. A consistent weekly format utilizing ethical dilemmas, current events, core readings, weekly writing assignments and successful community leaders as guest speakers will be implemented to provide a framework for stable learning. Some of the weekly topics include developing goals and priorities, showing respect for authority, building a positive reputation, developing personal values, and handling peer pressure.

HEALTH/PHY ED/RECREATION (HPER):

1 credit

Grades 9-10 Required

The focus of this course is to investigate and participate in activities that are of interest and/or can be related to a lifetime of fitness, fun, and recreation. Students will learn about current health issues, physical fitness, and lifetime recreational activities. They will use this knowledge to make relevant decisions about their own personal “wellness.” Some of the areas of study are decision making, mental and emotional wellness, unintentional and intentional injuries, drugs, alcohol and tobacco, nutrition, cancer, communicable and non-communicable diseases, sexually transmitted diseases, sex education, physical fitness, and different lifetime activities that promote fitness. **This course will also include cardiopulmonary resuscitation (CPR) and automatic external defibrillator instructions.**

PERSONAL FITNESS:

PREREQUISITE: Health/Phy Ed/Recreation

1 credit

Grades 11-12 Required

The primary focus of this course is to provide students with an understanding and practicum on how a lifelong healthy life is achieved through physical activities. The students will learn and practice skills, techniques, and procedures that will enable them to make relevant decisions about their own personal “wellness.” The students will use the decision-making process to select appropriate physical activities to include in their own fitness plan which they will design, develop, and implement to meet their specific goals. (This class can only be taken one semester per year.)

POWER OF CHOICE:

.5 credit

Grades 11-12

Students in this class will learn to discern healthy risks from unhealthy risks. It will help students develop skills to weigh the changes and benefits of situations to learn the power of their choices. A team of community education leaders will teach this class.

LANGUAGE ARTS

ENGLISH 9:

1 credit

Grade 9 Required

This course is a continuation of language development. Basic writing skills and literature appreciation are the two major areas of concentration. The basic skills will include a review of mechanics, usage, and spelling. Strong emphasis will be placed on vocabulary and for the development of the 5-paragraph essay and a basic research paper. Basic paragraph development and sentence variety will precede the specific types of writing.

ENGLISH 10:

1 credit

Grade 10 Required

English 10 will include an analysis of a variety of literary genres, literary terms, independent reading, a review of the parts of speech, phrases, spelling, usage, mechanics, and vocabulary study. Writing will also be emphasized. It will include the research paper and documentation of sources according to MLA style. Research techniques, organizing, editing, and proofreading strategies will be covered to aid in the writing process.

Literature:

BRITISH LITERATURE:

.5 credit

Grades 11-12 Meets one Lit requirement

This class is a study of the major British authors from the Middle Ages to the Victorian Age. The literature will include the epic poem *Beowulf*; *the Canterbury Tales* by Geoffrey Chaucer; *Macbeth* by William Shakespeare; and a novel by Charles Dickens. Student will also read British authors of their choice for Independent Reading.

COLLEGE LITERATURE: (SMSU LIT 120 Intro to Literature)

PREREQUISITE: Juniors-Top 1/3 of Class and Seniors-Top 1/2 of Class

.5 credit

Grades 11-12 Meets one Lit requirement

College Literature is a College Now Course (Literature 120 at SMSU) offered for college credit. This course will deepen students' understanding and appreciation of literature. Students will explore literature as an art form as they learn techniques to strengthen their abilities to read and explicate short stories, poems, novels, and drama.

CONTEMPORARY LITERATURE:

.5 credit

Grades 11-12 Meets one Lit requirement

This class will be a study of works done by popular authors of the present. Authors included will be Albom, McCourt, Kidd, and others.

MYTHOLOGY:

.5 credit

Grades 11-12 Meets one Lit requirement

This class will emphasize the mythologies of the Greek and Roman cultures. Gods and goddesses, nature myths, and stories of heroes and legends will be studied. Students will also have an opportunity to research and present information on the mythologies of other cultures.

SHORT STORIES:

.5 credit

Grades 11-12 Meets one Lit requirement

This class will study the forms of short stories with major emphasis on the interpretation of the underlying messages. Critical writing about literature will be included.

Communications:

BASIC WRITING:

.5 credit

Grades 11-12 Meets one Communications requirement

This will include the basic writing skills. The types of writing that will be covered will be narrative, persuasive, descriptive, and informative/research. Focus will also be placed on grammar and usage.

CREATIVE WRITING:

.5 credit

Grades 11-12 Meets one Communications requirement

This class will cover the more creative aspects of writing. The types of writing that will be covered will be short stories, drama, and poetry.

COLLEGE SPEECH: (SMSU SPCH 110 Fund. of Public Speaking)

PREREQUISITE: Juniors-Top 1/3 of Class and Seniors-Top 1/2 of Class

.5 credit

Grades 11-12 Meets one Communications requirement

This is a developmental oral communications course that covers the basics of researching, writing, outlining, and presenting speeches. Students will learn research techniques involving printed material and internet sources, crafting this information into informative, persuasive, extemporaneous, and visual aid presentations.

COLLEGE WRITING: (SMSU ENG 151 Academic Writing)

PREREQUISITE: Juniors-Top 1/3 of Class and Seniors-Top 1/2 of Class, Basic Writing

.5 credit

Grades 11-12 Meets one Communications requirement

This class is a College Now Course (English 151 at SMSU) offered for college credit. In addition to journal writing and grammar lessons, students will write 5 papers and an annotated bibliography. The writing assignments will begin with more personal or reflective writing and move to expository writing and argument. The major writing assignments will center around a debatable issue chosen from the SMSU library databases.

PRE-COLLEGE ENGLISH:

.5 credit

Grades 11-12 Meets one Communications requirement

The course will focus on two main areas: Usage and mechanics (punctuation, basic grammar, sentence structure) and rhetorical skills (writing strategy, organization, and style). Test-taking strategies will be included.

MATH

GEOMETRY 9:

1 credit

Grade 9 Required

Geometry 9 is the study of reasoning and proof, geometry tools, parallel and perpendicular lines, congruent triangles, proportions and similarity, right triangles and trigonometry, transformations and symmetry, circles, areas of polygons, and surface area. Several concepts are tied to real world examples. A scientific calculator will be needed for this class. A graphing calculator (TI-83 or TI-84) is not required for Geometry, but it will be for Alg. II.

ALGEBRA II:

PREREQUISITE: Geometry

1 credit

Grade 10 Required

Algebra II studies a variety of topics. They range from linear relations and functions, systems of equations and inequalities, quadratic functions and relations, polynomials and polynomial functions, inverses and radical functions, exponential functions, rational functions and relations, conic sections, sequences and series, and probability and statistics. A graphing calculator will be needed for this class (TI-83 or TI-84 recommended).

ADVANCED ALGEBRA:

PREREQUISITE: Algebra II (higher than C+)

It is recommended to take FST prior to College Algebra, but not required.

1 credit

Grades 11-12

This class covers mathematical topics for students whose backgrounds are insufficient for them to begin their study of mathematics at a higher level. Topics include equations and inequalities, functions, graphs, polynomials, systems of equations, matrices, and determinants. A student taking Advanced/College Algebra will need to take Functions, Statistics, and Trigonometry in order to fulfill the MN Standards. A graphing calculator will be needed for this class (TI-83 or TI-84 recommended).

COLLEGE ALGEBRA: (SMSU Math 110 College Algebra)

PREREQUISITE: Algebra II and Juniors-Top 1/3 of Class and Seniors-Top 1/2 of Class

It is recommended to take FST prior to College Algebra, but not required.

1 credit

Grades 11-12

Taught concurrently with Advanced Algebra (see description above) for college credit.

FUNCTIONS, STATISTICS AND TRIGONOMETRY:

PREREQUISITE: Algebra II (with a grade of C or higher)

1 credit

Grades 11-12 Meets Junior/Senior Math Requirement

In earlier courses, students studied linear, quadratic, exponential, and logarithmic functions, and perhaps trigonometric and circular functions. In this course, students will review and extend ideas about these functions. The ability of computers to store and analyze information has made statistics an increasingly important subject. A thorough knowledge of functions and trig is needed for calculus, an area that is fundamental in engineering and the physical sciences. Statistics is required for any major in the social sciences or business. A graphing calculator will be needed for this class (TI-83 or TI-84 recommended).

JUNIOR/SENIOR MATH:

PREREQUISITE: Algebra II

1 credit

Grades 11-12 Meets Junior/Senior Math Requirement

Junior/Senior Math is intended for those juniors and seniors who received a grade below "C" in Algebra II. This course continues the math standards required in high school. We will practice basic mathematical skills throughout the course. A graphing calculator will be needed for this class (TI-83 or TI-84 recommended).

CALCULUS:

PREREQUISITE: FST (with a grade of B+ or higher) College Algebra is recommended but not required.

1 credit

Grade 12

The topics in this course will consist of functions in calculus, derivatives, integrals and antiderivatives. It will be a foundation for students who plan to take Calculus in college. A graphing calculator will be needed for this class (TI-83 or TI-84 recommended).

COLLEGE CALCULUS: (SMSU MATH 150 Calculus I)

PREREQUISITE: Juniors-Top 1/3 of Class and Seniors-Top 1/2 of Class

1 credit

Grade 12

Taught concurrently with CALCULUS (see description above) for college credit.

MUSIC

CONCERT BAND:

1 credit (full year)

Grades 9-12

Concert band is designed to allow each student to develop his/her potential on a band instrument. Concert band rehearses daily during the school day and performs several concerts a year for the community and student body. The concert band may also perform at required festivals and clinics throughout the year. Concert band members may also audition for local honor bands, play for solo and ensemble festivals, and participate in co-curricular ensembles. All band members are members of marching band in the fall and have pep band requirements. A variety of repertoire will be explored, in addition to relevant theoretical and historical concepts and information. The

majority of the semester will be devoted to the concert band setting, but may also include sectionals and master classes. Band is a yearlong course.

CONCERT CHOIR:

1 credit (full year)

Grades 9-12

This class is open to all students who wish to sing in an ensemble setting. Class time will be devoted to developing healthy vocal technique, the study of music literacy and music performance skills. Concert Choir will be involved in four concerts throughout the school year, as well as participation in MSHL Large Group Contest, choir festivals, and other events depending on the school year. Students may earn a co-curricular letter for participation in choir activities. Opportunities will be presented to audition for select choirs and festivals throughout the year. All students will be expected to sing in this class.

REBEL VOICES:

.5 credit (full year)

Grades 9-12

This class is held from 7:20 – 8:00 a.m.

(Audition Only) Rebel Voices is a select group of students who will sing mainly a cappella repertoire. The size of this group will vary depending on the year. During December the Rebel Voices will perform as the MCC Carolers at events around the Slayton area. Rebel Voices will perform at four concerts during the year as well as solo/ensemble contest in the spring. Students audition in the spring for the following school year. Rebel Voices is also the feature of the annual spring Dinner Concert

SCIENCE

SCIENCE 9:

1 credit

Grade 9 Required

This course is designed to give students an introduction to the two major branches of Physical Science, Chemistry and Physics. The purpose of this course includes developing the student's interest in science, giving the student a fundamental understanding of scientific concepts, and preparing the student for further study. The topics covered in this course include motion and energy, waves, electricity and magnetism, matter, atomic structure, the periodic table, chemical bonding, organic chemistry, chemical reactions, acids and bases, and the nucleus.

BIOLOGY 10:

1 credit

Grade 10 Required

The major course objectives are as follows: to develop a greater interest in and an appreciation for biological sciences, to give students the biological background to better understand the problems relating to everyday life, to develop a better understanding of the structure and function of the human body, to provide the background for those who might take advanced courses or enter a career in one of the allied professions, to broaden the student's understanding of the diversity, similarity, and interrelation of living things.

CHEMISTRY:

1 credit

Grades 11-12 Meets Junior/Senior Science Requirement

The major objectives of this course are to help students develop the ability to make observations, to use their powers of observation to solve problems and reach conclusions, to understand the role that chemistry has in their lives, to gain the knowledge necessary to be an informed citizen on scientific questions, and to gain the knowledge of chemistry necessary for college, vocational school, or work. The course will be taught with an emphasis on discovery and laboratory activities, including the use of the computer in the laboratory, to supplement material covered by lectures and class discussions. The content of the course will include topics such as atomic structure, chemical bonding, chemical reactions, chemical kinetics, chemical equilibria, acids and bases, organic chemistry, and other topics.

CONCEPTUAL CHEMISTRY:

1 credit

Grades 11-12 Meets Junior/Senior Science Requirement

Conceptual Chemistry will cover the key chemical concepts as outlined in the State Science Standards. The two main goals of the course are to develop a conceptual framework for modern chemistry and to gain experience and appreciation of chemistry through experimentation and inquiry. Conceptual Chemistry differs from the more traditional Chemistry course in that the focus is on chemical *concepts* and *qualitative* laboratory analysis as opposed to chemical formulas and *quantitative* laboratory analysis.

NOTE: This course is not intended for students who plan to attend a 4-year college, or who need chemistry credit for college admissions requirements.

INTRODUCTION TO ENGINEERING DESIGN (IED):

1 credit

Grades 10-12

Curriculum will follow the guidelines of Project Lead the Way, Inc. The course is a foundation course that will teach students to use a problem-solving model to improve existing products and invent new ones. Using Autodesk Inventor; a sophisticated 3-D parametric modeling software; students communicate the details of the products. Emphasis is placed on analyzing potential solutions and communicating ideas through various vehicles of communication. Understanding the terminology for the drafting/engineering industry and expanding fundamental skills in hand sketching (basic drafting) are both integral to this introductory course. Students will be working in teams, learning about documenting your solutions, solving problems, and communicating their solutions to other students and members of the professional community of engineering and engineering design. Students will have the opportunity to see designs produced using a 3D printer, CNC Plasma table, or a laser engraver.

IED gives students the opportunity to develop skills and understanding of course concepts through activity-, project-, and problem-based (APPB) learning. Students will develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges that increase in difficulty throughout the course. Students will also learn how to document their work, and communicate their solutions to their peers and members of the professional community through their engineer's notebook and portfolio.

PHYSICS:

1 credit

Grades 11-12 Meets Junior/Senior Science Requirement

The major objectives are to help the student view science as a means to study the world and universe around us, to develop the skill to make observations and to use those observations to solve problems, to understand the role of physics in our society, to obtain the knowledge of science to be informed citizens as well as to gain the needed knowledge of physics to attend college, vocational school, or for work. The course will include numerous laboratory activities and computer work to supplement the normal class lectures and discussions. The topics covered in the course will include the study of motion, forces, work, kinetic and potential energy, electricity and magnetism, waves, light, and other topics.

SOCIAL STUDIES

GEOGRAPHY 9:

1 credit

Grade 9 Required

Geography is the study of the earth and its people. In World Geography we make an attempt to discover the relationship between physical, economic, and political geography. Physical geography is the natural occurrences of weather, mountains, plains, and rivers. Economic geography is the study of the distribution of man's economic activities, specifically those activities by which he earns a living or supports life. Political geography deals with boundaries, with exchanges of territory, with population and migration and with all that contributes to the political strength and weakness of nations.

AMERICAN HISTORY 10:

1 credit

Grade 10 Required

This is the study of American History from 1860 to the present time. American History is much different from the history of any other country because our people came from every corner of the world and from every race and ethnic group. Together these people formed our beliefs and values. By studying the history of the United States and understanding the values and beliefs, the students will be able to make better-informed decisions about the future of our nation and contribute to its continued growth. In American History we make a conscious effort to relate the events of the past to the conditions of today.

ANCIENT WORLD HISTORY:

.5 credit

Grades 11-12 Meets World History Requirement

Ancient World History is the examination of the Ancient World from the beginnings (5000 B.C.) up to the Middle Ages (1500 A.D.). The focus will be on key people and events that have shaped the historical, culture and political developments of the Ancient world. The major civilizations studied include the Egyptian, Babylonian, Persian, Chinese, Greek, and Roman civilizations.

COLLEGE SOCIOLOGY: (SMSU SOCI 101 Intro to Sociology)

PREREQUISITE: Juniors-Top 1/3 of Class and Seniors-Top 1/2 of Class

.5 credit

Grades 11-12

This course is a survey of the basic concepts and research areas in sociology, including sociology origins, major theoretical perspectives, research methods, culture, social structure, socialization, group processes, formal organizations, deviance and social control, stratification, racial/ethnic and gender inequality, social institutions, demography, collective behavior, and social change.

GOVERNMENT:

.5 credit

Grade 11-12 Required

This course will focus specifically on the federal government. Students will look at the Constitution and the Bill of Rights along with other amendments to the Constitution. They will study in depth the three branches of government. Students will role play the part of senators in a congressional session and participate in a mock trial.

COLLEGE GOVERNMENT: (SMSU POLYSCI 101 American National Govt)

PREREQUISITE: Juniors-Top 1/3 of Class and Seniors-Top 1/2 of Class

.5 credit

Grades 11-12

Taught concurrently with GOVERNMENT (see description above) for college credit.

MODERN WORLD HISTORY:

.5 credit

Grades 11-12 Meets World History Requirement

Modern World History is the study of the 20th century and today. World Wars, the Cold War, Vietnam, and other crises that have shaped our global society are emphasized. Students examine events from a world perspective and a United States perspective. Students take a critical look at who we are in the United States and our impact on world events throughout the 20th century.

PSYCHOLOGY:

.5 credit

Grades 11-12 Meets one Social Studies Requirement

Psychology is the study of individual behavior and mental processes. Topics to be studied include personality development, processes of learning, memory, emotions, consciousness, personal growth, stress, and mental disorders. Students will participate in a variety of experiments and hands-on activities.

SOCIAL ECONOMICS:

.5 credit

Grades 11-12 Meets Econ Requirement

Social Economics is the primary study of macroeconomics within our nation and the global market. Concepts that will be covered include supply and demand, international trade, investing, Wall Street, currency, inflation and how the government affects our economy.

SOCIOLOGY:

.5 credit

Grades 11-12 Meets one Social Studies Requirement

Sociology is the study of group behavior. Students will study a community institution in depth. They will build their own cultures and put them in time capsules for other classmates to discover and analyze. This class will look at social stratification, racial and minority issues, and crime.

WESTERN CIVILIZATION:

.5 credit

Grades 11-12 Meets World History Requirement

Western Civilization is the study of civilization from the middle ages (A.D. 1000) through the 19th century. History of the European world is emphasized but key events from throughout the world are examined. The student in Western Civilization will learn about the Renaissance, Reformation, Napoleon, and revolutions. Students learn to think like an historian and are challenged to see the roots of modern world conflict through occurrences in Western Civilization.

WORLD LANGUAGES

SPANISH I:

1 credit

Grades 9-12

The study of a foreign language is highly recommended for any college-bound students. Spanish I will introduce the student to the whole Hispanic culture, including language, music, history, geography and special customs of the Spanish-speaking world. The study of the language is enhanced by the use of games in the foreign language, and cultural stories and lessons. Main emphasis is on learning Spanish vocabulary and grammatical structures along with common everyday expressions.

SPANISH II:

PREREQUISITE: Spanish I

1 credit

Grades 10-12

In Spanish II the students continue to practice speaking, listening, reading and writing skills in Spanish, and begin to perfect their pronunciation and structure. This year also expands the students' Spanish vocabulary, and teaches past and future tenses. This class requires much more preparation outside of class than Spanish I. The instructor speaks as little English as possible at this level, and will expect compositions and some discussion in Spanish from the students.

SPANISH III:

PREREQUISITE: Spanish II

1 credit

Grades 10-12

This course will expand upon the concepts and skills introduced and developed in Spanish II. Students will study the more complex verb tenses including the subjunctive. Students will read current events and stories from Latin American authors. Conversation and daily writing will be an emphasis. This course will also prepare students for travel to Spanish speaking countries.

SPANISH IV:

Grades 11-12

PREREQUISITE: Spanish III

1 credit

This course will continue to expand on the concepts and skills involved in speaking, listening, writing, and reading in Spanish. Students will continue with daily writing and read more advanced topics in the target language. Speaking and listening will also be emphasized.

COLLEGE SPANISH 201: (SMSU SPAN 201 Intermediate Spanish I)

PREREQUISITE: Spanish II and Juniors-Top 1/3 of Class and Seniors-Top 1/2 of Class.

1 credit

Grades 11-12

This course will review the fundamentals of Spanish grammar and will continue to build language skills in speaking, listening comprehension, pronunciation, reading, and writing. Culture will be taught through selected reading, writing, and hands on activities. Learning activities include conversation, listening, drama, writing, and games.

COLLEGE SPANISH 202: (SMSU SPAN 202 Intermediate Spanish II)

PREREQUISITE: Spanish 3 or College Spanish 201 and Seniors – top 1/2 of class.

1 Credit

Grade 12

This course continues the study of Spanish grammar and vocabulary and continues building language skills in speaking, listening, reading, and writing. A variety of learning activities will include conversation, drama, writing, and games. Culture will be taught through reading, movies, and hands on activities.

Opportunities to earn COLLEGE CREDITS at MCC:

Intro to Medical and Health Careers

ONLY FOUR (4) STUDENTS FROM MCC WILL BE ADMITTED TO THIS CLASS

1 Credit

Grades 10-12

Course Description: Introduction to Medical and Health Science Careers provides students the opportunity to explore a wide variety careers in an assortment of medical/healthcare settings. The course is designed to provide students the chance to see if a career in medical/health science is right for them; and if they determine they have an interest, it can help them narrow down the possible careers they might consider. Students will participate in in-depth study and exposure to medical/health science careers, career planning, employability skills, basic terminology, ethics, wellness, disease and safety.

Course Delivery Method: Hybrid model (face to face, online, community based).

In Class on TU/TH 8:00-9:30 am at the **Windom Hospital** (students are responsible for their own transportation)

Online/Field Work on M,W,F in home school district/community

College Credit: The course will be articulated through www.ctecreditmn.com, which provides the student an opportunity to redeem the credit at a variety of participating colleges in Minnesota.

College Now Enrollment, Concurrent Enrollment with SMSU, Marshall:

Juniors: Top 1/3 of your class

Seniors: Top 1/2 of your class

Mrs. Beech will notify the students who qualify for this program.

Postsecondary Enrollment Options

(PSEO) is a program that allows 10th-, 11th- and 12th-grade students to earn both high school and college credit while still in high school, through enrollment in and successful completion of college-level, nonsectarian courses at eligible participating postsecondary institutions. Most PSEO courses are offered on the campus of the postsecondary institution; some courses are offered online. Each participating college or university sets its own requirements for enrollment into the PSEO courses. Eleventh and 12th-grade students may take PSEO courses on a full- or part-time basis; 10th graders may take one career/technical PSEO course. If they earn at least a grade C in that class, they may take additional PSEO courses.

There is no charge to PSEO students for tuition, books or fees for items that are required to participate in a course. Students must meet the PSEO residency and eligibility requirements and abide by participation limits specified in Minnesota Statutes, section 124D.09. If a school district determines a pupil is not on track to graduate, she/he may continue to participate in PSEO. Funds are available to help pay transportation expenses for qualifying students to participate in PSEO courses on college campuses. Schools must provide information to all students in grades 8-11 and their families by March 1, every year. Students must notify their school by May 30 if they want to participate in PSEO for the following school year. For current information about the PSEO program, visit the Minnesota Department of Education's Postsecondary Enrollment Options (PSEO) webpage: <http://education.state.mn.us/MDE/fam/dual/pseo/index.htm>