Milford Senior High Course Descriptions

2023 - 2024



MILFORD PUBLIC SCHOOLS

EVERYONE HAS A STORY... MAKE YOURS WORTH TELLING.

GRADUATION REQUIREMENTS

AREA OF STUDY	REQUIRED HOURS	CLASSES REQUIRED
Language Arts	45	 a. English 9 b. English 10 c. One (1) semester of speech d. English 11 e. English 12 or English 12A
Foreign Language	0	University requires two years for admission.
Mathematics	30	
Science	30	
Social Science	30	a. World Geography 2 semestersb. American History 2 semestersc. American Government 2 semesters
Personal Health/Physical Fitnes	ss 10	a. Healthy Lifestyles 1 semesterb. PE (If failed PE8 or did not take) 1 sem.
Visual and Performing Arts	10	
Career and Technical Education	n 15	a. Mathematics of Business & Financeb. Computer Applications or Info. Technology (If failed Comp. Appl 7 or did not take)
Electives	50	May include 15 hours of activity credits. Classes may be substituted for activity hours.

TOTAL 220 HOURS

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I. FOREIGN LANGUAGE

(Elective Credit)

Course Title: Spanish I 920 Course Length: 2 semesters Grade Level: 10, 11, 12

This two-semester class focuses on providing students with a basic vocabulary in the Spanish language as well as a solid foundation of grammatical structures, pronunciation, introductory phonetics, and historical information about the Spanish language as well as other linguistic ideas. Focus will be on reading, writing, speaking, and listening in the target language. Present tense verb conjugation is the primary tense used throughout the course with a beginning understanding of subject, mood, and tense. Cultural ideas that relate to Latinos and the world around us will also be a focus.

Course Title: Spanish II 1020 Course Length: 2 semesters Grade Level: 11, 12

Prerequisite: Spanish I, with a "C" or better average

As the second level of Spanish offered, this two-semester course is a review of Spanish I vocabulary and concepts as well as an extension of other previous areas of examination. Focus will be on reading, writing, speaking, and listening in the target language. More focus will be placed on the ideas of subject, mood, and tense with the addition of the study of the Preterite, Imperfect, Conditional, Present Progressive and Informal Commands. Students will also expand their vocabulary in several areas.

Course Title: Spanish III 1120 Currently Offered Online Only Course Length: 2 semesters Grade Level: 12 Prerequisite: Spanish II, with a "C" or better average and/or teacher approval

As the third level of Spanish offered, this two-semester course focuses on solid retention of reviewed material as well as continued and expanded work in vocabulary, grammatical structures, cultural concepts, and other linguistic ideas. Students will extend study in the areas of reading, writing, speaking, and listening. The Future, Past Perfect, and Present Subjunctive tenses as well as Formal Commands will be introduced and examined. Students will be asked to make advanced oral presentations and will also be asked to work with children's stories and advanced literary pieces. The goal is to provide all students with a solid foundation of long-term memory information that will prepare them for basic communication and/or further study of the target

II. LANGUAGE ARTS

language.

(English Credit)

Course Title: Reading - High School 1005 (Elective Credit) Course Length: 2 semesters Grade Level: 9, 10, 11, 12 Prerequisite: Teacher Recommendation

This course will work on improving reading and comprehension skills that were built in elementary and junior high, but need to be refined. Strategies and skills will be practiced with fictional pieces, nonfiction pieces, and novels. They will learn to apply these strategies throughout all subject areas to improve reading comprehension.

Course Title: English 9 910 Course Length: 2 semesters Grade Level: 9 required

This course is a combination of vocabulary, literature, writing, and researching. All students will complete vocabulary exercises every week, and they will be regularly tested over these words. The literature in the course deals with life problems of youth growing up. William Shakespeare's play *Romeo and Juliet* and Harper Lee's *To Kill a Mockingbird* will be studied. Students will also complete other reading including a Biography/Autobiography independent novel project. The students will work on grammar skills to write clear, concise, and effective sentences.

Course Title: English 10 1010 Course Length: 2 semesters Grade Level: 10 required

This course is a combination of all four elements of the English language: reading, writing, speaking, and listening. All students will complete weekly vocabulary exercises with regular testing. The literature selections will include narrative, world literature, poetry, and fictional pieces. Grammar focus will include usage, word choice, complements, and phrases, so students can write clear, concise, and effective paragraphs and essays. Students will also write for the purposes of creativity and persuasion. A multitude of opportunities will allow students to practice their public speaking skills and learn how to be an active listener.

LANGUAGE ARTS (English Credit)

Course Title: English 11 1110 Course Length: 2 semesters Grade Level: 11 required

This course is a combination of vocabulary, literature, and critical writing. All students will complete vocabulary exercises every week, and they will be regularly tested over these words. The literature will be a selection of American essays, speeches, short stories, novels, and poetry. As part of the literature study, students will utilize critical thinking to analyze short stories, novels, or poetry. A portion of the class will be devoted to grammar, usage, and punctuation. In addition, students will study business communication for both oral and written forms. Students will also participate in required ACT testing that could be counted as part of their English grade.

Course Title: English 12 1210 Course Length: 2 semesters Grade Level: 12 required

This course is a combination of vocabulary usage, literature, and composition. All students will complete vocabulary exercises every week, and they will be regularly tested over these words. The literature selections will include both fictional and non-fiction works, exploring the history of the English language in the process. Students will also utilize the six traits of writing to compose a personal statement for scholarship purposes, a literary analysis essay, creative pieces, and an argumentative research paper. A portion of the class will be devoted to the review of specific grammar, usage, and punctuation rules. As time allows, students will explore writing techniques for use in various careers.

Course Title: English 12A 1211A (ENGL1010 Composition I) (Dual Credit) SCC # ENGL1010HS61 Course Length: 1 semester Grade Level: 12

Prerequisite: *Prerequisite: Approved placement scores from English 9-11, NeSA, ITBS, ACT results. SCC requires approved ACT Rdg. 18+ or SCC Accuplacer Writing Skills 84+, Accuplacer Reading 43+. College Credit earned with grade average of "C" or better. *Must be a Senior, Dual Credit offered by MHS staff, in support with SCC college credit

ENGL1010 is designed to develop writing skills. Students write a total of 25 polished pages based upon different methods of development. The course emphasizes the clear written expression of ideas and importance of organization, word choice, logic, and sentence construction. The process of planning, writing, revising, and editing essays for a particular audience is also emphasized. *Tuition is paid by the student to college.*

Course Title: English 12A 1212A (ENGL2100 Intro to Lit.) (Dual Credit) SCC # ENGL2100HS61 Course Length: 1 semester Grade Level: 12 Prerequisite: ENGL1010; College Credit earned with grade average of "C" or better.

Students will be introduced to the major genres and conventions associated with literature, including fiction, poetry, drama, and memoir. By employing critical reading/thinking skills and analytical and creative writing skills, students will understand literature more fully. Exposure to a range of authors representing a variety of cultural and ethnic backgrounds is also included. *Tuition is paid by the student to college.*

Course Title: Speech 1011 Course Length: 1 semester Grade Level: 10 required

The purpose of this course is to develop the student's skills and confidence as a communicator in the world today. Areas that will be explored include: communication and the speaker as a public communicator primarily through informative, demonstrative, and persuasive speaking. Students will be required to give speeches before other class members. Evaluation will be based primarily on performance.

Course Title: Digital Media / Journalism 1199 (Elective Credit)

Course Length: 2 semesters

Grade Level: 10, 11, 12 (9th grade may request. Approval is based upon JH English, Technology skills, and work ethic)

Prerequisite: Information Technology I, 'C' Average English coursework, and meeting due dates in previous coursework due to the e of course objectives

nature of course objectives.

This yearlong course will combine photography, layout and design, journalistic writing, and establishing and maintaining a digital footprint of our school. Students will also help create a brand for our school through various social media outlets or print media. Students in this course will also create the school yearbook in a brand new format.

Course Title: Broadcasting 1305 (Elective Credit) Course Length: 2 semesters Grade Level: 9, 10, 11, 12 Requirement: Teacher Permission

This course will expand student media skills of interviewing, reporting, writing, editing, photography/videography, and design. Students will explore careers while working together to create projects in a variety of media, such as print, web, podcast, and/or broadcast. The emphasis of Broadcasting is on collaboration, broadcasting etiquette performance, and career exploration.

(Elective Credit) Course Title: Public Speaking 1311A (SPCH1110 Public Speaking) (Dual Credit) SCC # SPCH1110HS61 Course Length: 1 semester Grade Level: 11, 12 Prerequisite: Approved placement scores from English 9-10, MHS Speech 1011, and MPS testing results. College Credit earned with

grade average of "C" or better. This course will enable students to practice the skills necessary for presenting speeches in a variety of contexts. It will focus on the organization, preparation, research, and evidence needed for a presentation that is tailored to fit the audience. This course will enhance the student's listening skills which will assist them in everyday situations. Students will perform at least three research-based oral presentations before an audience. Tuition is paid by students to the college.

III. MATHEMATICS

(MATH CREDIT)

Course Title: Algebra I 931 Course Length: 2 semesters Grade Level: 9

Prerequisite: Pre Algebra or instructor permission

This course offers a good fundamental background in the instruction and use of Algebra. This course is essential for those going on to some form of advanced education, including many programs at SCC. The main focus of the year is solving linear equations.

Course Title: Geometry 932 Course Length: 2 semesters Grade Level: 9, 10, 11, 12 Prerequisite: Algebra I, Algebra 8, or instructor permission

Geometry introduces the idea of proofs. The knowledge of logical thinking is the main theme throughout the year. It is a well-rounded course dealing with properties of points, lines, and space. This course is very helpful to those planning on going on to higher education.

Course Title: Algebra II 1031 Course Length: 2 semesters Grade Level: 10, 11, 12 Prerequisite: Algebra and Geometry or teacher recommendation

This course offers a broad exposure to many higher-level math topics. Algebra II is strongly encouraged for those planning to attend Southeast Community College, a college, or university. The course introduces the students to quadratic graphs, simplification of radicals, irrational numbers, logarithms, trigonometry, and complex numbers.

Course Title: Standards Math 1131 **Course Length: 2 Semesters** Grade Level: 11 Prerequisite: Teacher Recommendation

Instruction will focus on the mastery of the State Math Standards and the successful completion of the State Math Assessment.

Course Title: Trigonometry 1133 Course Length: 1 semester Grade Level: 11, 12 Prerequisite: Algebra, Geometry, Algebra II

This course offers a comprehensive look at trigonometry as it applies to triangles, both right triangles and oblique. Course concentrates on trig identities, and value of the trig functions of the known triangles.

Course Title: Pre-Calculus 1134 Course Length: 1 semester Grade Level: 11, 12 Prerequisite: Trigonometry

This course starts out with a review of algebra skills. As the year progresses students build a background toward a unit of Calculus at the end of the semester. The course is good preparation for those interested in electronics, engineering, medicine, computers, and mathematics.

Course Title: Calculus 1236 Course Length: 2 semesters Grade Level: 12 Prerequisite: Trig and Pre-Calculus

This course is designed for those students, who are interested in higher education at the college or university level, especially those interested in math, science, or health professional careers. The course continues from where pre-calculus left off by going further into the application of the derivative and integration of functions.

Course Title: College Algebra 1237 (MATH1150 College Algebra) (Dual Credit) SCC # MATH1150HS61 Course Length: 1 semester Grade Level: 12 Prerequisite: "B" or higher in HS Algebra II, ACT Math 23+ or SCC Accuplacer College Algebra: 31+ OR Elementary Algebra: 91+. *Must be a Senior, Dual Credit offered by MHS staff with SCC college credit

A study of college algebra with emphasis on functions in preparation for advanced math and science coursework. Topics include solving equations and inequalities, graphing and modeling using polynomial, rational, exponential, and logarithmic functions; systems of equations, and analytic geometry. A graphing calculator may be required. This course is for students who specifically need algebra in certain pre-professional programs. This course is offered as dual credit for students wanting to meet college general studies requirements as well as a high school mathematics course. It is not intended for students who will be majoring in mathematics or a math-related field. *Tuition is paid by the student to college.*

Course Title: Elementary Statistics 1136 (Math2170 Elem. Statistics) (Dual Credit) SCC # MATH2170HS61 Course Length: 1 semester Grade Level: 12 Prerequisite: "B" or higher in HS Algebra II, ACT Math 23+ or SCC Accuplacer College Algebra: 31+ OR Elementary Algebra: 91+. *Must be a Senior, Dual Credit offered by MHS staff with SCC college credit ptary Statistics we will study descriptive statistics, probability and probability distributions, and topics from inferential

In Elementary Statistics, we will study descriptive statistics, probability and probability distributions, and topics from inferential statistics, including interval estimates and hypothesis testing.

Course Title: Mathematics of Business & Finance 1292 (Math or Career & Tech Ed Credit) Course Length: 1 semester Grade Level: 11, 12 (Required) Prerequisite: Algebra II

This course is designed to assist students to become financially responsible, conscientious members of society. By understanding mathematical principles of business and finance, this course develops student understanding and skills in money management; budgeting; financial goal attainment; use of credit; insurance; investments; and consumer rights and responsibilities. Application of academic concepts, technology, and career planning are integrated throughout the curriculum.

IV. PERSONAL HEALTH/PHYSICAL FITNESS

Course Title: Wellness and Sports 941
Course Length: 1 or 2 semesters
Grade Level: 9, 10

(PE or Elective Credit)

This course is developed for the student with a competitive edge. Students will participate in physical activity through team sports such as basketball, flag football, ultimate ball, floor hockey, lacrosse, rugby, and volleyball through tournament play. Students will also participate in a wellness program which includes strength training, nutrition, stress management, sleep habits, and injury prevention. Students may wear heart rate monitors to assess their cardiovascular levels.

Course Title: Healthy Lifestyles 942 Course Length: 1 semester, 5 Credits Grade Level: 12 required (Health Credit)

Encouraging students to make responsible, respectful, informed, and capable decisions about topics that affect the well-being of themselves and others, this course is a one-semester course that provides students with comprehensive information they can use to develop healthy attitudes and behavior patterns. This informative and engaging course encourages students to recognize that they have the power to choose healthy behaviors to reduce risks.

Course Title: Fit for Life 1040 Course Length: 1 or 2 semesters Grade Level: 9, 10, 11, 12 (PE or Elective Credit)

Personal Wellness is a combination of instruction and physical activity. Students will explore how physical activity improves cognitive development through lifetime activities, group fitness classes, and traditional games. Students will participate in activity through various forms of group fitness; bootcamp, yoga, kickboxing, and circuit training. Along with conditioning exercises; walking, running, and strength training as well as team sports. Classroom instruction incorporating nutrition, sleep habits, mental health, mindfulness, and stress management are the tools they will utilize throughout their life. Personal Wellness focuses on students making connections between the decisions they make and the long/short term consequences. Students will have the opportunity to wear heart rate monitors to assess their fitness levels.

Course Title: Strength & Conditioning 9086 (PE or Elective Credit] Course Length: 1 or 2 semesters Grade Level: 9, 10, 11, 12

This is a course designed for students who have a sincere desire to improve their physical fitness through strength training and cardiovascular conditioning. This will be accomplished primarily through weight training and cardiovascular conditioning. An individual program will be developed for each student.

Course Title: Lifetime Sports 1140 (PE or Elective Credit) Course Length: 2 semesters

Grade Level: 11, 12 (Students may only take 1 year)

Units include: weightlifting, fitness training, bowling, shuffleboard, golf, archery, table tennis, badminton, tennis, racquetball, dance, basketball, and volleyball.

V. SCIENCE

(SCIENCE CREDIT)

Course Title: Physical Science 950 Course Length: 2 semesters Grade Level: 9 Prerequisite: Algebra

This introductory course is a combination of physics, earth science, and astronomy. Students will explore the world of motion through topics such as speed, velocity, acceleration, Newton's Laws of Motion, types of energy, and electricity. Then they will explore historical evidence of the physical and biological changes of the Earth. Finally they will travel into the universe to describe the formation of the universe and stellar evolution. Algebra concepts will be implemented in Physical Science 950

Course Title: Biology 1050 Course Length: 2 semesters Grade Level: 10 required

This course develops basic biological principles through emphasis on the scientific method, Ecology, cell structure, human heredity, DNA structure, natural selection and comparison of simple organisms, plants, and animals. The final quarter of the course is devoted to anatomical investigations of organisms ranging from frogs to the fetal pig. Lab skills are also developed. Students also must design their own science experiment.

Course Title: Integrated Science 1153 Course Length: 2 semesters Grade Level: 11, 12

Integrated Science provides an introduction to the major areas in science—Life Science, Physical Science, and Earth Science. Students will learn content aligned with the Nebraska state standards, including topics such as force and motion, heat and thermodynamics, waves, chemical bonds, Earth's systems and cycles, and composition of the atmosphere. This course will also include investigations and experimental labs to develop scientific inquiry and critical thinking skills to solve problems.

Course Title: Chemistry 1150 Course Length: 2 semesters Grade Level: 11, 12

Prerequisite: Conceptual Physical Science 951 or Physical Science 950

Chemistry is the study of various properties of substances and how they react with other substances. Students learn to use the Periodic Table of the Elements. Students learn to write chemical equations and how to balance them. They also learn to explain chemical reactions and to predict other reactions. Also there is an emphasis on the structure of the atom, acids and bases, redox reactions, and molecular structure Lab equipment use and lab skills are also developed. Students also use the scientific method and should have a strong background in math. There is also an emphasis on problem solving skills, which can be used in everyday life.

Course Title: General Chemistry I (Dual Credit) 1157 Course Length: 2 semesters (both semesters required to earn credit) Grade Level: 11, 12 Prerequisite: Approved placement scores from MHS Science & Math coursework, PreACT / ACT results, or Accuplacer Scores. SCC requires approved Math scores for enrollment, ACT Math 23+. College Credit earned with grade average of "C" or better. *Must be a Junior or Senior.

This is the first course of a college chemistry sequence. Topics include nomenclature, atomic structure, chemical reactions, essentials of bonding, periodic properties, Valence Shell Electron Pair Repulsion Theory (VSEPR) modern bonding theories, stoichiometry, thermochemistry, and the chemistry of solids, liquids, gases. Lab must be taken concurrently.

SCIENCE CREDIT

Course Title: Anatomy/Physiology 1151 Course Length: 2 semesters Grade Level: 11, 12 Prerequisite: Biology 1050

This course is designed to present the concepts needed to develop an understanding of the human body and the way it functions. In order to develop the concepts, a detailed analysis of the different structures of the body is incorporated into the class. The structures are then analyzed to find each one's precise function. These structures are not only looked at individually, but also how they work together in making up the systems of the human body. Lab equipment use and lab skills are also developed.

Course Title: Physics 1250 Course Length: 2 Semesters Grade Level: 12

Prerequisite: 20 hours of science, Trigonometry strongly recommended

This course is an investigation in the physical laws of the universe. The class emphasizes the conceptual aspects of physics and stresses practical applications of the laws of physics. A number of student projects are required for completion of the course. Highly recommended for any student considering any type of post-secondary education. Investigative paper is required.

VI. SOCIAL STUDIES

(SOCIAL STUDIES CREDIT)

Course Title: World Geography 960 Course Length: 2 semesters Grade Level: 9 required

World Geography is a study of the earth and its people. Students will study the five themes of geography and how they apply. Students will become familiar with the construction and use of maps, major world religions, climates, and cultural expression. The second semester will focus on using this knowledge to study the physical and cultural features of the regions of the world.

Course Title: World History 1060 (Elective Credit) Course Length: 2 semesters Grade Level: 10, 11, 12 Prerequisite: World Geography

This course is designed to inform students and increase their knowledge of the world in which they live by studying modern world history (from the Renaissance to present). Emphasis will be placed on studying the Renaissance, the Reformation, French Revolution, Communist Revolution, and the World Wars. This course is recommended as a foundation for American History, but is open to juniors and seniors. This course may be taken for a semester or full year.

Course Title: American History 1160 (Social Studies Credit) Course Length: 2 semesters Grade Level: 11 required

This course will survey American history from Reconstruction to the present. Units are designed to emphasize changes and growth in American life, culture, and structure of government.

Course Title: Consumer Economics 1161 (Elective Credit) Course Length: 1 semester Grade Level: 11, 12

This course is devoted to studying the role of economics in our American society. The course covers the function of the consumer, the producer, and the investor in our free enterprise system.

Course Title: Psychology 1162 (Dual Credit, Online) (Elective Credit) Course Length: 1 semester Grade Level: 11, 12

This online course is a general overview of the subject of psychology. It is designed to familiarize the student with the role of the individual in human behavior. Major theories of learning will be explored and a semester project is required. Strongly recommended for the college bound.

Course Title: American Government 1260 (Social Studies Credit) Course Length: 2 semesters (2nd semester, Dual Credit, Online accepted) Grade Level: 12 required

2nd semester, Dual Credit Online Prerequisite: "B" or higher in HS American Government semester 1

This course takes a close look at the federal government of the United States, how it works, and why certain things happen as they do. Major emphasis of the course concerns the citizen's role in a democracy and a complete study of the three functions of government at the national, state, and local level. Grading is both objective and subjective in nature.

VII. VISUAL AND PERFORMING ARTS

(FINE ARTS CREDIT)

Course Title: Art I 970 Course Length: 2 semesters Grade Level: 9, 10, 11, 12

In Art I, students will establish an understanding of art concepts such as composition and perspective. In addition to a thorough exploration of the elements and principles of art, sketchbook assignments will require out-of-class work. Three-dimensional composition will be explored through clay work. Other media to be used: watercolor, acrylic, collage, charcoal, fibers, and pastels

Course Title: Art II 1070 Course Length: 2 semesters Grade Level: 10, 11, 12 Prerequisite: Art I

In this course, individual style and originality will be stressed. Out-of-class sketchbooks will reflect art concepts learned in class and give opportunity for experimentation in one's own approach. Media such as acrylic, watercolor, fibers, pastels and computers will be used. Three-dimensional projects include plaster sculpture and portrait heads.

Course Title: Advanced Art 1170 Course Length: 2 semesters Grade Level: 11, 12 Prerequisite: Art I and Art II and instructor's permission through application process Maximum enrollment: 16 students

Advanced Art requires a great deal of self-discipline and professionalism on the part of each student. Complicated methods and varied media will be presented in both two-dimensional and three-dimensional forms. Under contract, students will develop their own independent study projects in such areas as fibers, airbrush, and clay. Extensive sketchbooks will be expected. May be taken for credit for two years.

Course Title: Instrumental Music (High School Band) 1271 Course Length: 2 semesters Grade Level: 9, 10, 11, 12 Prerequisites: 1. Particination in Instrumental Music the previous school ve

1. Participation in Instrumental Music the previous school year unless authorized by the Director.

2. Ownership of a working Band instrument unless other arrangements have been made with the Director.

Instrumental Music 1271 is a performance-based class that organizes as an ensemble called the Senior High Concert Band. The Band performs many times during the year in concerts, athletic contests and other special events. Class time is used exclusively for rehearsing toward future performances. Students who excel are encouraged to prepare solo or small ensemble music for the District Music Contest. Students may also elect to participate in the Jazz Ensemble or other seasonal groups. <u>Class requirements include:</u> Attendance at all Band performances; Attendance at all Pep Band performances unless directly involved with the featured athletic team; and Supply of all necessary maintenance material for the instrument (reeds, oil, etc.).

Course Title: Vocal Music 1272 Course Length: 2 semesters Grade Level: 9, 10, 11, 12

Students in chorus will be exposed to music of various styles, languages, and time periods as they work in class to prepare for concerts and contests. Students are required to attend concerts, district music contest, and other scheduled performances outside of the regular school day. <u>Participation in</u> <u>performances is required for a passing grade</u>. Excused absences are only those of extreme emergency and will be determined by the director. Students may also have the option of participating in solos, small groups, and auditions for honor choirs.

Course Title: Fine Arts Seminar 8502 Course Length: Sem. or Yr Grade Level: 10, 11, 12

Students will be provided the opportunity to expand upon their own Fine Arts Experiences to develop, explore, or create additional foundational skills used and needed within the fine arts world. Some experiences may include, but are not limited to: costume, sound, scenic, stage production, lighting, choreography, directing assistance, vocal or acting skills, production organizational skills, or music theory.

VIII. CAREER AND TECHNICAL EDUCATION

A. Industrial Technology

(Career and Technical Education Credit)

Course Title: Introduction to Technology 982 Course Length: 1 semester Grade Level: 9 Maximum enrollment: 16 students Materials: Students may be asked to furnish some supplies throughout the semester.

The class is designed to give students an introduction into the world of Industrial Technology. The four core areas of Industrial Technology: construction, manufacturing, communications, and transportation, will be covered. Students will be introduced to welding, woodworking, plastics, design, drafting, and shop safety.

Course Title: Machine Technology I 1080 Course Length: 1 semester Grade Level: 10, 11, 12 Maximum enrollment: 20 students Materials: Students will furnish their own lumb

Materials: Students will furnish their own lumber and hardware for their projects.

The class provides students with information relating to various woods and wood products. Safe use of woodworking equipment and power tools will also be covered. Students will have the opportunity to work with both hand tools and power tools while completing assigned woodworking projects. The class will focus on the proper use of wood joints, project assembly, and wood finishes.

 Course Title:
 SCC Career Exploration 5560 / 5561
 (No HS Credit Given)

 Course Length:
 2 semesters, back to back periods (2)

 Grade Level:
 10, 11, 12

 No HS Credit given. No homework / grades. Exploratory experience provided.

 Limited to 15 students

Special requirements: Pair of jeans required to be worn to all SCC classes.

The course was designed in a partnership with SCC & MPS to provide exploratory opportunities for hands-on learning. Students are exposed to a variety of career pathways by learning and experiencing techniques within multiple departments. These areas may include: Transportation, Automotive Technology, Auto Collision Repair Technology, PowerSports Technology, Business Administration, Land Surveying, Concrete Construction, Framing & Rough Carpentry, Drafting, CNC Operation, Electrical, Automation & Electromechanical, Heating, Ventilation, Air Conditioning, Refrigeration, Manufacturing Engineering Technology, Nondestructive Testing, Precision Machining and Automation Technology.

Course Title: Welding 1180 Course Length: 1 semester Grade Level: 11, 12 Limited to 10 students Special requirements: 1 pair coveralls, 1 pair pliers

Welding class is intended to cover both the theory and skills of welding. Approximately four out of five days are spent in the shop learning to weld. Welds covered are oxygen-acetylene, arc, and mig. Each student is expected to make one welding board and complete a practical welding experience.

Course Title: Adv. Welding 1187 Course Length: 1 semester Grade Level: 11, 12 Limited to 10 students Prerequisite: * Welding Special requirements: 1 pair coveralls, 1 pair pliers

Welding class is intended to cover both the theory and skills of welding. Approximately four out of five days are spent in the shop learning to weld. Welds covered are oxygen-acetylene, arc, and mig. Each student is expected to make one welding board and complete a practical welding experience.

Course Title: Building Design and Construction 1186 Course Length: 2 semesters Grade Level: 11, 12 Maximum enrollment: 15 students

This class provides students with the opportunity to work through the whole construction process, from design to the finished product. Student will use both CAD (Computer Aided Drafting) and hands-on lessons to learn about the construction industry. Course curriculum includes designing, concrete work, framing, cabinet and furniture design, remodeling, and material estimating.

Course Title: CNC Machine Tool 1220 Course Length: 1 semester Grade Level: 11, 12

CNC Machine Tool covers fundamental concepts of programming and design. This course introduces techniques necessary for fabrication using programming language. This course emphasizes fundamental programming techniques and students are introduced to project management. Classroom projects will include the use of 3-D printing, vinyl cutting, and CNC cutting with a plasma cutter and wood carving with a router.

Course Title: Small Gas Engines 1188 Course Length: 1 semester Grade Level: 11, 12 Prequisite: Machine Tech I ** Possible shop fee.

Small Gas Engines provides students with basic information on small engine construction, how the systems operate, lubrication requirements, preventive maintenance practices, servicing techniques, and rebuilding procedures. Student class time will be split into completing an industry online training course and hands-on experience in the shop where they will tear down and rebuild a small gas engine. Upon completion of this class students will be comfortable with preventing, identifying, and repairing most small gas engine problems.

Course Title: Robotics 1300 Course Length: 1 semester Grade Level: 10, 11, 12 Maximum enrollment: 10 students

Robotics is designed to explore the current and future use of automation technology in industry and everyday use. Students will receive a comprehensive overview of robotic systems and the subsystems that comprise them while engaging with a robotics platform. This course is designed for students who have an interest in Science, Technology, Engineering, and Mathematics (STEM) robotics applications.

B. Agriculture Education

(Career and Technical Education Credit)

Course Title: Intro to Ag, Food, and Natural Resources 983 Course Length: 2 semesters Grade Level: 9

Students will be exposed to a broad range of agriculture, food and natural resources careers, cluster foundation knowledge and skills, introduction to leadership development, the FFA organization, and career exploration. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Course Title: Horticulture/Plant Science 1083 Course Length: 1 semester Grade Level: 10, 11, 12

This course will cover horticulture practices of landscaping, turf, and gardening practices. Horticulture careers and plant growth will be covered in class. Areas to be studied are plant propagation, greenhouse management, trees and shrubs, house plant care, and bedding plants.

Course Title: Agronomic Science 1282 Course Length: 1 semester Grade Level: 10, 11, 12 Prerequisite: *Prefer to have Hort/Plant Science prior to Agronomic Science

Students will identify plants and seeds, learn about plant growth, diseases, insects, and fertilizer use. Crop production looks at land preparation, planting, harvesting, storage, marketing, and chemical use. Students will also develop a strong understanding of soil, the soil profile and its formation, conservation, and protection.

Course Title: Animal Science I 1184 Course Length: 1 semester Grade Level: 10, 11, 12

Students will look at animal production in the areas of swine and beef. Feeds will be studied along with health and equipment. The objective of the course is to visually see livestock management through video tapes and field trips, after classroom knowledge is developed.

Course Title: Animal Science II 1185 Course Length: 1 semester Grade Level: 10, 11, 12

Students course will look at large animal production in the areas of sheep, horses and dairy. A unit on meat production, a unit on artificial insemination, and a small animal unit will also be covered.

Course Title: Natural Resources 981 Course Length: 1 semester Grade Level: 11, 12

A course that provides an opportunity for students to increase awareness of the close ties among living organisms as well as natural and environmental concerns with the interrelationships of living organisms and the world around us. Students are exposed to careers related to natural resources systems. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Course Title: Wildlife Management 1086 Course Length: 1 semester Grade Level: 11, 12 Prerequisite: Natural Resources

This course has an emphasis on the conservation of natural resources including outdoor recreation topics and provides students with the opportunity to understand and appreciate the importance of maintaining the land and ecological systems that enable non-domesticated animals to thrive. Classroom and lab activities are supplemented through supervised agricultural experiences and leadership programs and activities.

C. Business

(Career and Technical Education Credit)

Course Title: Information Technology I 991 Course Length: 1 semester Grade Level: 9, 10, 11, 12

Graduation Requirement: Computer Applications or Information Technology meets graduation requirements.

Students will explore emerging technologies as it applies to their success for high school, college, and career. The focus will be on the importance of digital citizenship, professional communication practices, advanced document processing, professional presentations, and intermediate spreadsheet and database applications used personally and professionally.

Course Title: Information Technology II 1090 Course Length: 1 semester Grade Level: 10, 11, 12 Prerequisite: Information Technology I

This course will focus on skill development in advanced spreadsheet, database, integration of applications utilizing advanced features, and exploring web technologies. Students taking both Information Technology I and II may be eligible for articulated or dual credit at a participating postsecondary institution. Skills, standards, and coursework align with industry certifications.

Course Title: Screen Printing 1093 Course Length: 1 semester Grade Level: 10, 11, 12

This course will introduce students to the technical tools and processes used in digital design. Students will be introduced to the design process with emphasis placed on the use of formal design principles, types of images, creative brainstorming, conceptualizing, critical thinking, collaboration, and presentation. Students will specifically apply the design process through screen printing various products. Students will demonstrate proper use of fair use guidelines. Career opportunities in digital design will be explored.

Course Title: Digital Media / Journalism 1295 Course Length: 2 semesters Grade Level: 10, 11, 12 (9th grade may request. Approval is based upon JH English, Technology skills, and work ethic) Prerequisite: Information Technology I and 'C' Average English coursework

This year long course will combine photography, layout and design, journalistic writing, and establishing and maintaining a digital footprint of our school. Students will also help create a brand for our school through various social media outlets or print media. Students in this course will also create the school yearbook in a brand new format.

Course Title: Intro to Business, Marketing, and Management 1197 Course Length: 1 semester Grade Level: 9, 10, 11, 12

This course is designed as an introductory overview of the Business, Marketing, and Management Career Field. Units of study include economic systems, forms of business ownership, management, marketing, and accounting. Career opportunities will also be explored.

Course Title: Accounting I 1191 Course Length: 2 semesters Grade Level: 11, 12

This course provides the opportunity for students to learn the importance of complete and accurate financial records. Students will develop the concept of double-entry bookkeeping, the ability to analyze, record, and interpret business transactions, ability in the preparation and interpretation of financial statements, and acquire enough understanding of income tax to be able to file their own returns. Accounting also provides the basis for understanding automated procedures and operations.

Course Title: Mathematics of Business & Finance 1292 Course Length: 1 semester Grade Level: 11, 12 (Required) Prerequisite: Algebra II

(Career and Technical Education Credit)

This course is designed to assist students to become financially responsible, conscientious members of society. By understanding mathematical principles of business and finance, this course develops student understanding and skills in money management; budgeting; financial goal attainment; use of credit; insurance; investments; and consumer rights and responsibilities. Application of academic concepts, technology, and career planning are integrated throughout the curriculum.

Course Title: Management & Leadership 8504 Course Length: 1 semester Grade Level: 11, 12

This course emphasizes the basic concepts of management and leadership within a business or organization. It addresses characteristics, organization, and operation of the business as major sectors of the economy. Students will investigate management issues involved in planning, organizing, leading, and controlling an organization. They will also acquire essential skills in the areas of emotional intelligence: time management, stress management, communication, and relationship skills.

D. Family and Consumer Sciences

(Career and Technical Education Credit)

Course Title: Child Development 994 Course Length: 1 semester Grade Level: 9, 10, 11, 12

How do early childhood experiences shape a community? Discover & deepen your knowledge, skills and practices necessary for nurturing the growth and development of children. This course evaluates the effects of parenting roles and responsibilities in supporting the development of a child and family. The big ideas uncovered in this course are: conception, prenatal development, healthy pregnancy, birth, physical, emotional, intellectual, and social development of infants, toddlers, preschoolers, & children, child care and early education, and careers working with children. Students will attain hands and mind-on experiences through observing and interacting with children. Parenting theories, skills, and practices will be infused through each stage of development. It is recommended to enroll in Advanced Child Development Practicum after taking this course.

Course Title: Child Development Practicum I & II: 1097 & 1194 Course Length: 1 semester, 2 periods back to back preferred Prerequisite: Child Development

Grade Level: 10, 11, 12 *** Students are encouraged to enroll multiple years.

How does a community shape the development of a child? Students who enroll in this course should be interested in pursuing a career in early childhood, human services, education, or health sciences that dynamically impacts children. Students will deepen the knowledge of the developmental milestones of early childhood (ages 0-12). Students will develop the skills to plan for learning and impact development across all developmental stages.. Students will complete multiple practicum experiences at each of the following: preschool, K-2, 3-5, 6-7, & 9-12 grade as well as shadowing various community programs and professionals that impact child development. Students will work with the FACS teacher to set individual learning plans for these experiences. Most of this course is independent study, with a large responsibility of the learning and planning falling on the student, with the teacher as the facilitator of learning. Students can re-enroll in this course multiple years to further your technical skills and experiences in this area.

Course Title: Relationships & Family Strengths 1294 Course Length: 1 semester Grade Level: 11, 12

Strengthen relationships and experience the dynamic effect it has on the well-being of individuals, families, and society. Students will investigate, communicate, and manage issues in everyday and life-long relationships as a catalyst for personal, family, and societal growth. Students will also explore parenting & family roles and responsibilities. Participation in this course will lead to greater self-awareness, enhanced relationships, improved cultural competencies, strengthened families, confidence in gaining control in choosing direction for one's life, and exposure to the many career opportunities in criminal justice and human services career fields. The big ideas uncovered in this class are personal development, healthy relationships, unhealthy relationships, sexual behaviors & risks, life-long relationships/marriage, family strengths, human services careers, and coping with crises.

Course Title: Fashion Design 996 Course Length: 1 semester Grade Level: 9, 10, 11, 12

All students will learn and apply the principles & elements of design to hands-on projects meeting the needs of various populations and scenarios through design planning, skill attainment and presentation. This course is a personalized course for individuals interested **in** fashion and clothing construction. Students who are interested in **fashion and clothing construction** will cover, in addition to the principles & elements of design, the following skill sets: Basics of Textile and Apparel Design, Selection/Construction/Maintenance/and Alterations of Textile Products, & Related Careers. It is recommended to enroll in Fashion Design II.

Course Title: Fashion Design II. 997 Course Length: 1 semester Prerequisite: Fashion Design

Grade Level: 10, 11, 12 *** Students are encouraged to enroll multiple years.

These courses are designed to concentrate and advance your skills, studies, and experiences for fashion and clothing construction after completing the Design Skills: Fashion Design I course. Students will work with the teacher to set individual learning plans for advanced levels. Students can enroll in this course multiple years to further your technical skills and experiences in this area.

Course Title: Fashion Design Entrepreneurship 1297 Course Length: 1 semester Prerequisite: Fashion Design II

Grade Level: 11, 12 *** Students are encouraged to enroll multiple years.

This course is designed to concentrate and advance your skills, studies, and experiences for fashion and clothing construction after completing the Fashion Design Skills I & II course. Students will work with the teacher to set individual learning plans for advanced levels focused around entrepreneurship in the fashion design industry. Students can enroll in this course multiple years to further your technical skills and experiences in this area.

Course Title: Interior Design 998 Course Length: 1 semester Grade Level: 9, 10, 11, 12

All students will learn and apply the principles & elements of design to hands-on projects meeting the needs of various populations and scenarios through design planning, skill attainment and presentation. This course is a personalized course for individuals interested in designing homes and interiors. Students who are interested in **designing homes and interiors** will cover, in addition to the principles & elements of design, the following skill sets: Housing Influences & Choices, Basics of Housing & Interior Design, & Related Careers.

Course Title: Interior Design II 999 Course Length: 1 semester Prerequisite: Interior Design

Grade Level: 10, 11, 12 *** Students are encouraged to enroll multiple years.

These courses are designed to concentrate and advance your skills, studies, and experiences for homes and interiors after completing the Design Skills: Interior Design I course. Students will work with the teacher to set individual learning plans for advanced levels. Students can enroll in this course multiple years to further your technical skills and experiences in this area.

Course Title: Interior Design Entrepreneurship 1299 Course Length: 1 semester Prerequisite: Interior Design II

Grade Level: 11, 12 *** Students are encouraged to enroll multiple years.

This course is designed to concentrate and advance your skills, studies, and experiences for interior design after completing the Interior Design Skills I & II course. Students will work with the teacher to set individual learning plans for advanced levels focused around entrepreneurship in the interior design industry. Students can enroll in this course multiple years to further your technical skills and experiences in this area.

Course Title: Nutrition & Foods 992 Course Length: 1 semester Grade Level: 9, 10, 11, 12

How do your habits now shape your future? In this semester-long course, students will develop the foundational knowledge of food selection and preparation needed to successfully fuel the human body for performance. With a beginning foundation of nutrition, students will learn basic food preparation skills and the short-term and long-term wellness consequences as a result of nutritional intake. Students will participate in food labs to learn culinary skills connected to healthy eating. Another emphasis of this course focuses on food and nutrition science, understanding the chemistry of how food becomes you. Students will conduct food science experiments to gain a better understanding of the chemistry behind cooking and nutrition absorption. Students will be exposed to careers related to hospitality and tourism, nutrition and food sciences, dietetics, and sports performance. Students will leave the class being able to plan, produce, and communicate the importance behind healthy meals & habits.

Course Title: Culinary Skills-ProStart I & II : 1046 & 1146 Course Length: 1 semester each, yearlong Prerequisite: Nutrition & Foods

Grade Level: 10, 11, 12 *** Students can enroll up to two years.

ProStart is a year-long hands-on food preparation/culinary skills course. The industry-driven ProStart curriculum prepares students for careers in the restaurant and foodservice management industry as well as confidence in preparing healthy, tasteful meals for personal and family use. This course focuses on the following topics: career paths, safety and sanitation, industry standards, food methods and techniques (breakfast foods, sandwiches, salads, garnishes, meat, poultry, seafood, desserts, baked goods, and global cuisines) food service management, and customer services. Students enrolled in this course will have the opportunity to compete in ProStart culinary competitions throughout the year.

IX. <u>OTHER</u>

Course Title: Study Skills 3025 Grade Level: 9, 10, 11, 12

This course is designed for those students needing instruction skills not covered in the regular curriculum or for those needing additional reinforcement of regular classroom skills. Instruction is based upon the individual educational objectives outlined in the student's IEP. Upon recommendation of the regular classroom teachers, resource teacher, counselor, and principal, this class may be substituted for a required class. Students fourteen years and older and their parents will complete a Future Planning Inventory each year to assist in preparation for graduation and post high school training and/or employment.

Course Title: Teacher Aide 4001 Grade Level: 11, 12 Activity Credit Only

Teacher aides are selected and responsible to their cooperating teacher. A teacher aide agreement is to be on file with the guidance counselor. Aides may be used for non-subjective grading, development of labs, clerical matters, bulletin board construction, limited supervision, etc. The cooperating teacher is responsible for the behavior and the attendance of the student including any time the teacher may be absent.

Course Title: FOCUS 4050 Grade Level: 9, 10, 11, 12

FOCUS will provide time for students to make up work, collaborate with peers on class projects, get additional help from teachers, insure that teachers are available, and provide time for students to take online coursework. A goal of FOCUS is to improve student achievement by systematically providing additional time and support.

Course Title: Work Study 5001 Grade Level: 12

Students will be employed on a regular basis under the supervision of someone other than the student's immediate family. Students must be making acceptable progress toward graduation. A work-study agreement can be obtained from the counselor -- such agreement will have to be signed before work-study can begin. Release time will be scheduled when possible. Work Study can be arranged in early August and must be for the duration of the semester.

Course Title: Senior Seminar Grade Level: 12 Prerequisite: Administrative Approval of student application.

Seniors may consider exploring a field of study not offered through our traditional MHS curriculum, or an advanced level of previous coursework. This independent study will be arranged through student application and administrative approval. Student will present a plan, supply list, timeline, and end project for presentation within the application process. End product presentation will be shared at the conclusion of the independent study. Project materials must be provided by the student. Tools or supplies that may assist with this independent study and remain property of MPS may be considered for Anonymous Donor funding.

MHS COLLEGE CREDIT OPPORTUNITIES

*Dual Credit classes earn Pass/Fail High School Credit. It is not included in MHS GPA.

SENCAP (Southeast Nebraska Career Academy Partnership)

Dual Credit classes offered in a variety of career areas. See SENCAP website or booklet from the School Counseling office for the most recent course offerings. These classes are offered in a variety of ways: on-site, distance learning, or at another area location. In addition to the classes offered, students also Job Shadow, create resumes and cover letters, correspond with other students, attend a Professional Day, Mock Interviews, and other career components. Inquire for more details at the Counselor's Office. **SCC and MPS partner the expense of these courses due to the career academy component for all students displaying effort and passing their coursework. FREE Tuition & Textbooks for SENCAP classes.**

PUBLIC SPEAKING (Oral Communication) SPCH1110HS61 (First or Second Semester)

Dual Credit from SCC, MHS or SCC faculty

*Prerequisite: Approved placement scores from English 9-10, MHS Speech1011, NeSA, and ITBS results. SCC requires approved ACT Eng. 18+ or SCC Accuplacer Writing Skills 84+, Accuplacer Reading 43+. College Credit earned with grade average of "C" or better.

This course will enable students to practice the skills necessary for presenting speeches in a variety of contexts. It will focus on the organization, preparation, research, and evidence needed for a presentation that is tailored to fit the audience. This course will enhance the student's listening skills which will assist them in everyday situations. Students will perform at least three research-based oral presentations before an audience. This course will meet most colleges' General Education requirement. Students are responsible for the SCC tuition of the class (approx. \$175).

<u>COLLEGE ALGEBRA</u> MATH1150HS6I (First Semester, Seniors)

Dual Credit offered by MHS staff with SCC college credit *Must be a Senior *Prerequisite of "B" or higher in HS Algebra II, ACT Math 23+ or SCC Accuplacer College Algebra: 31+ OR Elementary Algebra: 91+.

A study of college algebra with emphasis on functions in preparation for advanced math and science coursework. Topics include solving equations and inequalities, graphing and modeling using polynomial, rational, exponential, and logarithmic functions; systems of equations, and analytic geometry. A graphing calculator may be required. This course may meet a college Math requirement, or serve as an elective. Please consult with your possible college choices to check on their requirements and transfer acceptance.

Students are responsible for the SCC tuition of the class (approx. \$175).

COMPOSITION | ENGL1010 ENGL1010HS61 or ENGL1010HS61B (First Semester, Seniors)

Dual Credit offered by MHS staff, in support with SCC college credit

*Prerequisite: Approved placement scores from English 9-11, NeSA, ITBS, ACT results. SCC requires approved ACT Rdg. 19+ or SCC Accuplacer Reading 80+. College Credit earned with grade average of "C" or better. *Must be a Senior

Composition I offers instructional practice in the techniques of effective writing. The process of planning, writing, revising, and editing essays for particular audiences and purposes and research-related skills are also emphasized. This course meets most colleges' English Composition I requirement, or will serve as an elective. Please consult with your possible college choices to check on their requirements and transfer acceptance. **Students are responsible for the SCC tuition of the class (approx. \$175).**

GENERAL CHEMISTRY I CHEM1090HS61 (Juniors or Seniors) Yearlong course

Dual Credit offered by MHS staff, in support with SCC college credit.

*Prerequisite: Approved placement scores from MHS Science & Math coursework, PreACT / ACT scores. SCC requires approved ACT Math 23+ or approved Accuplacer scores for enrollment. College Credit earned with grade average of "C" or better. *Must be a Junior or Senior.

This is the first course of a comprehensive chemistry sequence. Topics include nomenclature, atomic structure, chemical reactions, essentials of bonding, periodic properties, Valence Shell Electron Pair Repulsion Theory (VSEPR) modern bonding theories, stoichiometry, thermochemistry, and the chemistry of solids, liquids, gases. Lab must be taken concurrently. **Students are responsible for the SCC tuition of the class (approx. \$210)**.

APPLIED STATISTICS MATH2170HS6I (Second Semester, Seniors, Register later)

Dual Credit offered by MHS staff with SCC college credit *Must be a Senior

*Prerequisite of "B" or higher in HS Algebra II, ACT Math 23+ or SCC Accuplacer College Algebra: 31+ OR Elementary Algebra: 91+.

In Elementary Statistics, we will study descriptive statistics, probability and probability distributions, and topics from inferential statistics, including interval estimates and hypothesis testing. Students are responsible for the SCC tuition of the class (approx. \$175).

INTRO TO LITERATURE ENGL2100 ENGL2100HS61 or ENGL2100HS61B (Second Semester, Seniors, Register later)

Dual Credit offered by MHS staff, in support with SCC college credit

*Prerequisite: English1010 Composition I

Students will be introduced to the major genres and conventions associated with literature, including fiction, poetry, drama, and memoir. By employing critical reading/thinking skills and analytical and creative writing skills, students will understand literature more fully. Exposure to a range of authors representing a variety of cultural and ethnic backgrounds is also included. This course may meet a college's English requirement, or will serve as an elective. Please consult with your possible college choices to check on their requirements and transfer acceptance. **Students are responsible for the SCC tuition of the class (approx. \$175)**.

*AMERICAN GOVERNMENT POLS1000 Dual Credit is offered as an online course for the 2nd Semester. We will register in

Nov/Dec if seniors are interested.

A study of the functioning of the American political system through an analysis and application of its underlying theories. Students are responsible for the SCC tuition of the class (approx. \$175).

<u>ANY ONLINE COLLEGE CREDIT COURSE</u> may be taken from an approved college/university setting. Visit with the counselor to approve the course, register through your college of preference, and we will allow you a school period in the Library to complete your coursework. Programs to consider that previous MHS students have had successful experiences: UNL Advanced Scholars, Peru State College Early Entry Program, SCC Dual Credit Advantage, NECC Dual Credit.

To see if your college credits will transfer in Nebraska, visit: TRANSFER.NEBRASKA.EDU or TRANSFEROLOGY.COM nationally.