

Milford Senior High Course Descriptions

2020 - 2021



MILFORD
PUBLIC SCHOOLS

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

GRADUATION REQUIREMENTS

<u>AREA OF STUDY</u>	<u>REQUIRED HOURS</u>	<u>CLASSES REQUIRED</u>
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 semesters b. American History 2 semesters c. American Government 2 semesters
Personal Health/Physical Fitness	10	a. Health 1 semester b. PE (If failed 8th or did not take) 1 sem.
Visual and Performing Arts	10	
Career and Technical Education	15	a. Mathematics of Business & Finance
Electives	50	May include 15 hours of activity credits. Classes may be substituted for activity hours.
<u>TOTAL</u>	<u>220 HOURS</u>	

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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

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 language.

II. LANGUAGE ARTS

(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 studies the reading process and works on improving all readers in the areas of fluency, decoding, rate, vocabulary, and all levels of comprehension. The students will read from the four types of genre as well as explore text structure and organizational patterns to enhance 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.

Course Title: English 11 1110

Course Length: 2 semesters

Grade Level: 11 required

LANGUAGE ARTS (English Credit)

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 literature, composition, and vocabulary. The literature selections will include both fiction and non-fiction works, exploring the history of the English language in the process. Students will also utilize the six traits of writing to create a personal narrative, an argumentative research essay, a compare and contrast essay, and a literary analysis. All students will complete vocabulary exercises, and they will be regularly tested over these words. A portion of the class will be devoted to grammar, usage, and punctuation. Creative writing will be incorporated as time allows.

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

Eng. 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 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 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 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: Broadcasting 1305 (Elective Credit)

Course Length: 2 semesters

Grade Level: 9, 10, 11, 12

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.

Course Title: Public Speaking 1311A (SPCH1110 Public Speaking) (Dual Credit) SCC # SPCH1110HS61 (Elective Credit)

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 student to college.***

III. MATHEMATICS

(MATH CREDIT)

Course Title: Math Concepts 9 935, Math Concepts 10 1035, Math Concepts 11 1135, Math Concepts 12 1235

Course Length: 2 semesters

Grade Level: 9, 10, 11, 12

Prerequisite: Course available only if the math staff recommends the student based on previous classroom performance, ITBS scores, and other assessment scores.

Instruction will emphasize arithmetic computations using whole numbers, negative and positive integers, fractions, decimals, percents and problem solving skills using basic operations of addition, subtraction, multiplication, and division. The goal of this class is mastery of math skills related to real life problems solving. Students will practice skills so they can complete them independently with a greater level of confidence.

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

MATHEMATICS (Math Credit)

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 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**

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 (PE or Elective Credit)

Course Length: 1 or 2 semesters

Grade Level: 9, 10

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 (Health Credit)

Course Length: 1 semester, 5 Credits

Grade Level: 12 required

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.

PERSONAL HEALTH/PHYSICAL FITNESS

Course Title: Fit for Life 1040

(PE or Elective Credit)

Course Length: 1 or 2 semesters

Grade Level: 9, 10, 11, 12

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: Unified Physical Education - SHAPE America (PE or Elective Credit)

Course Length: 1 or 2 semesters

Grade Level: 9, 10, 11, 12

This course combines students of all abilities to participate in developmentally appropriate activities including lifetime activities, physical fitness, and sport. Students will work together to increase competence and confidence in a variety of physical activities. Through ongoing leadership opportunities, members of this course will be empowered to help create a more inclusive and accepting school environment for all students.

Course Title: Weightlifting 1041 (PE or Elective Credit)

Course Length: 2 semesters

Grade Level: 10, 11

Prerequisite: Must be a sophomore or junior and participated in a high school sport the previous year.

Students will have the opportunity to gain strength, increase body size, and become less likely to receive athletic injuries. All students should realize that body strength and size does not come in a few days, it may take several weeks/months for some to see significant changes, whereas it may not take as long for others. Weightlifting does not require a lot of homework, but does require a lot of time and effort. Everyone must come energized and ready to work. This class is not for bodybuilders, but to gain strength for better athletic achievement.

Course Title: Strength & Conditioning 9086 (PE or Elective Credit]

Course Length: 1 or 2 semesters

Grade Level: 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

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

V. SCIENCE

(Science Credit)

Course Title: Conceptual Physical Science 951

Course Length: 2 semesters

Grade Level: 9 required

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.

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

SCIENCE

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 frog to the fetal pig. Lab skills are also developed. Students also must design their own science experiment.

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: 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: Environmental Science 1153

Course Length: 2 semesters

Grade Level: 11, 12

Environmental science is a science class that will take an in-depth look at concepts in the areas of ecology and conservation. The student will be required to create and complete a number of science projects dealing with areas of practical application of the concepts involved.

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.

Course Title: Advanced Chemistry 1251

Course Length: 2 semesters

Grade Level: 12

Prerequisite: Chemistry, with a "B" or better average

Advanced Chemistry students must want to challenge themselves by using basic skills developed in Chemistry 1150. The students will develop advanced techniques with acids, bases, titrations, redox reactions molarity, organic reaction, nuclear reactions, and lab skills. Upper level problem-solving skills will be developed throughout the class.

VI. SOCIAL STUDIES

Course Title: World Geography 960

(Social Studies Credit)

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)

SOCIAL STUDIES / FINE ARTS

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: Modern Problems 1164 (Distance Learning) (Elective Credit)

Course Length: 2 semesters

Grade Level: 11, 12

Maximum Enrollment: 5 students

Modern Problems is a course that studies current topics in the United States and the World. Themes include: War/Peace, Economics, Religion, Human Rights, Politics, Systems of Government, Domestic Affairs, Foreign Affairs and Geography of World events. Students will also study how our society has evolved by reviewing different regions around the world and how they affect one another. Course content is aligned with the Nebraska State Social Studies Standards.

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

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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 two years.

Course Title: Instrumental Music (High School Band) 1271

Course Length: 2 semesters

Grade Level: 9, 10, 11, 12

Prerequisites:

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 District Music Contest. Students may also elect to participate in the Jazz Ensemble or other seasonal groups. Class requirements include: 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 contest. Students are required to attend concerts, district music contest, and other scheduled performances outside of the regular school day. Participation in performances is required for a passing grade. 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.

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 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: 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: Building Design and Construction 1186

Course Length: 2 semesters

Grade Level: 11, 12

Maximum enrollment: 15 students

(Career and Technical Education Credit)

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

Course Length: 1 semester

Grade Level: 11, 12

Prerequisite: 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

(Career and Technical Education Credit)

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

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 Computer Applications 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

Prerequisite: Information Technology I

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

(Career and Technical Education Credit)

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 procedure and operations.

Course Title: Business Law

Course Length: 1 semester

Grade Level: 11, 12

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 and will be regularly tested over these words. The literature selections will include narrative, world literature, poetry, and fictional pieces. Grammar focus will include usage, word choice, complements, 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.

Course Title: Mathematics of Business & Finance 1292

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.

D. Family and Consumer Science

Course Title: Intro to Family and Consumer Science (FCS) 993

Course Length: 1 Semester

Grade Level: 9, 10, 11

Maximum enrollment: 16 students

This course covers all areas of family and consumer science and how it relates to the student's life. Areas include foods, housing, related art, child care, clothing care, and sewing. Some projects may also include diet analysis, entertainment project, food preparation principles, and time management. Students will be expected to furnish their own fabric and small equipment. Personal and family relationships will be discussed in a unit. The childcare unit will cover all areas of developmental tasks with the students identifying these facts in a pre-school session for one week. Sewing students will master technical reading, measurement, sanitation, and safety skills in the lab/classroom.

Course Title: Parenting 1094

Course Length: 1 semester

Grade Level: 10, 11, 12

A thorough study of the human life cycle and development is studied starting with the beginning of life to death. This class of child development will enable students to be familiar with experiences of parenting. A parenting simulation with a computerized baby will be included. Practical experiences will be provided with emphasis on a play school, tutoring grade schoolers, and observing infants and toddlers. A field trip to a preschool will also be included. Students will plan a two-week preschool. Students will master technical reading and demonstrate child development teaching skills.

Course Title: Fashion and Textiles 1096

Course Length: 1 semester

Grade Level: 10, 11, 12

This course will involve a detailed study of clothing, textiles, and fashion merchandising. Students will construct a garment or quilt based on their entrance skills. Units will involve the study of textiles, fabric and fabric identification, textile legislation, and fashion merchandising. The study of fashion merchandising will be first quarter. They will be expected to furnish their own fabric and small equipment. A project on the serger will be required. A construction notebook made by the student will allow for broader construction knowledge. Fashion merchandising will be studied the first quarter. Students will master technical reading, measurement, application of design, and safety skills in the lab/classroom.

Course Title: Housing and Design 1296

Course Length: 1 semester

Grade Level: 10, 11, 12

This is a semester course designed to include basic knowledge and development of skills in living space, resources and energy conservation, home selection, and finance. Selection of furniture and appliances, floor plan study, and interior decorating. Design plans will be done on the computer. The student will be required to complete an extensive interior decoration project. A field trip to decorating and housing related businesses will be taken. Students will master technical reading, measurement, and application of design principles in the lab/classroom.

Course Title: Independent Living 1293

Course Length: 1 semester

Grade Level: 10, 11, 12

Materials: Students will pay for cost of a clothing project.

This course will help students survive when they are on their own by teaching them basic family and consumer science skills and knowledge. Units will focus on resource management in the areas of budgeting, food preparation, consumerism, nutrition, selection of housing and furnishings, care and construction of clothing, laundry, decision making, and job seeking skills. Students will master technical reading, measurement, sanitation, and safety skills in the lab/classroom.

(Career and Technical Education Credit)

Course Title: Food & Nutrition I 9030

Course Length: 1 semester

Grade Level: 10, 11, 12

Maximum enrollment: 16 students

This course is designed to provide students with the base foundation knowledge of food selection and preparation needed to successfully fuel the human body through consumption of food and resulting food energy. With a beginning foundation of nutrition and food science, students will learn basic preparation skills, nutritional content, wellness consequences, and exposure to careers related to the food industry.

Course Title: Food & Nutrition II 1095

Course Length: 1 semester

Grade Level: 10, 11, 12

Maximum enrollment: 16 students

Prerequisite: Food & Nutrition I

This course is designed to provide students with the advanced knowledge to properly and efficiently fuel the human body through food selection, storage and preparation methods. Students will study foods using advanced project based nutritional and food science learning methods. Applying the reactions of foods in the short-term and long-term consequences of over all human wellness as a result of nutritional intake through the foods they prepare, consume, and exposure to the business of food and food production.

Course Title: ProStart/Culinary Arts I 1298

Course Length: 2 semesters

Grade Level: 10, 11, 12

Prerequisite: Completion of Food & Nutrition I, Teacher permission.

ProStart is a yearlong food preparation/culinary arts program for high school juniors and seniors. Students will study from texts and learn from lectures, demonstrations, and hands-on projects. Students will master technical reading, measurement, sanitation, safety, and costing skills in the lab/classroom. This program focuses on culinary cooking, food preparation, accounting, cost control, sanitation, and work safety. Students will compete in state competition in a knowledge of bowl, knife skills, plate presentation, salads, and tapas. Chef jackets for students will be provided by the Nebraska Restaurant Association.

Course Title: ProStart/Culinary Arts II 1299

Course Length: 2 semesters

Grade Level: 11, 12

Prerequisite: ProStart I

ProStart II is a yearlong food preparation/culinary arts program for high school seniors. Students will study from texts and learn from lectures, demonstrations, student-led demonstrations, and hands-on projects. Students will master technical reading, measurement, sanitation, safety, and costing skills in the lab/classroom. This program focuses on culinary cooking, history of food service, marketing, interviewing, inventory, and communication with customers. Students will compete in state competition in two contests: culinary, knife skills, plate presentation, salads, and/or tapas. Chef jackets for students will be provided by the Nebraska Restaurant Association.

IX. OTHER

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.

Course Title: Driver Ed Classroom 6002 / Driver Ed Driving 6003

Requirements: 20 hours classroom, 5 hours driving minimum

Offered during summer vacation.

Students eligible to take driver education must be 14 years of age before Oct. 15, or who will be getting a school permit the next school year. Please refer to state law LB 320 for reference concerning provisional license. The Board of Education will annually review the fee for this course. Course permit will allow student to obtain his or her permit or Provisional Operators Permit (POP). Students must have a Learners Permit to drive in the driver's education car.

MHS COLLEGE CREDIT OPPORTUNITIES

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

SENCAP (Southeast Nebraska Career Academy Partnership)

Dual Credit classes offered in Agriculture, Business, Education, Early Childhood, Health, Information Technology, and Industrial, Manufacturing and Engineering Systems. 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. \$165).

COLLEGE ALGEBRA 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. \$165).

COMPOSITION I ENGL1010 ENGL1010HS61 (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. \$165).

ELEM. 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. \$165).

INTRO TO LITERATURE ENGL2100 ENGL2100HS61 (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. \$165).

**American Government Dual Credit is offered for 2nd Semester. We will register in Nov/Dec if seniors are interested.*

ANY ONLINE COLLEGE CREDIT COURSE 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.