

Agriculture

Agriculture courses are not approved as NCAA core courses.

Agribusiness On-The-Job Training

Course # 1
Credit: 1 credit
Grade: 12 (Fall Semester or Spring)
11 (Spring Semester only)
Prerequisite: Concurrent registration in Shop Engines or Ag Shop Trailers or Minnesota Wildlife or permission of instructor.
Course # 200 2 hours
Course # 300 3 hours

Exploring Agriculture 9

Course # 2
Credit: 1/3 credit
Grade: 9
Prerequisite: None

Shop Trailers

Course # 3
Credit: ½ credit
Grade: 11-12
Prerequisite: None

Intro to MN Wildlife

Course # 4
Credit: ½ credit
Grade: 11-12
Prerequisite: None

Ag Science

Course# 18
Credit: ½ credit
Grade: 10-12

Work independently at a cooperating workstation supervised by the On-the-Job Training supervisor. Material discussed will be: occupational choices, job applications and interviews, work ethics, time and work logs, individual development and communication, and job and employee evaluation. Evaluation will be by both the employer and supervisor.

Exploring agriculture takes a look at how agriculture impacts our community and explores careers within the broad spectrum of agriculture. An in-depth look at the FFA organization will also be covered along with developing student skills in the following areas: welding, natural resources, and forestry.

This course will center on the fabrication & assembly of trailers that are sold within the community. Students will use the following skills within this class: welding (wire-feed & arc), plasma and oxy-acetylene cutting, trailer wiring, & assembly, advertising, accounting, bidding, inventory care.

This course focuses on the basic philosophies of wildlife management and the relationships between wildlife and humans. Topics included are the history of the DNR and hunting, the identification of MN wildlife, outdoor survival, and invasive species. Also included in this course is the construction of a 3-dimensional wildlife management model. This class is responsible for the management of the wildlife plot next to the school.

Covering a variety of topics we will look into the many areas of agriculture industry including: global positioning systems, plant science, agronomy animal science environmental science and many more topics. This will be a classroom setting with projects completed in each topic.

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Ag Transport

Course # 5
Credit: ½ credit
Grade: 10-12
Prerequisite: None
AS

Horticulture/Landscape

Course # 6
Credit: ½ credit
Grade: 10-12
Prerequisite: None

Electricity/Plumbing

Course # 7
Credit: ½ credit
Grade: 10-12
Prerequisite: None

Advanced MN Wildlife

Course # 8
Credit: ½ credit
Grade: 11-12
Prerequisite: Intro to MN Wildlife

Ag Power

Course# 9
Credit: ½ credit
Grade: 11-12

This course explores the different systems of 2 and 4 cycle engines. Topics include: operating principles, small engine tools, starting systems, carburetion, compression, and ignition. This class offers many hands on opportunities to work on various small engines including individual projects.

This is a course providing information and hands-on skill development in the areas of flowers, vegetables, ornamentals, trees, shrubs, lawns, and landscaping. Landscape design will also be incorporated in this course. Plants will be raised that can be taken home for individual use. A landscape project will be completed in the spring.

This class is a combination of in class theory and hands on application in a shop setting. An in-depth look will take place in the areas of electricity, electrical systems, electrical tools, and wiring common home circuits and appliances. Plumbing will also be discussed featuring plumbing principles, tools, materials, and techniques in both PVC and copper applications.

This course will take an in-depth look into the biology and management of MN wildlife species. The biology, habits, and management of fish, birds, mammals, and insects will be covered. The construction of an ice fishing rod and a woodworking project will also be completed. This class is responsible for the wildlife plot next to the school.

Focusing on hydraulic pneumatic systems this class will explore the theory, principles, operation and maintenance of these systems. This will be done in a combination of classroom and shop setting while completing various projects using the information and tools discussed.

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Robotics

Course # 19
Credit: 1/2 credit
Grade: 10-12
Prerequisite: None

Robotics gives students the fundamental skills needed to operate, maintain, program and test robotics systems. Students gain experience and skill in robotic operation and programming using an industrial training robot. Students develop and write robot programs and design solutions for industrial robotic applications.

Fluid Power Hydraulics

Course # 17
Credit: ½ credit
Grade: 10-12
Prerequisite: None

The Hydraulics series introduces the principles of hydraulics and fluid power. Hydraulics allows students to create, modify and operate simulated hydraulics and electro-hydraulic devices and circuits. Hydra-Flex hardware enables students to configure hydraulic applications using industrial grade components.

Fluid Power- Pneumatics

Course # 28
Credit: ½ credit
Grade: 10-12
Prerequisite: None

The Pneumatics courses teach the principles of pneumatics and pneumatically controlled systems. The pneumatics simulation software allows students to create, modify operate and observe simulate pneumatic devices and circuits.

Art

**MN State Colleges and Universities recommend 1 year of fine arts.
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Art 9

Course # 10
Credit: 1/3 credit
Grade: 9
Prerequisite: None

Art I

Course # 11
Credit: 1 credit
Grade: 10-12
Prerequisite: None

Art II

Course # 12
Credit: 1 credit
Grade: 11-12
Prerequisite: Art I

Art III

Course # 13
Credit: 1 credit
Grade: 12
Prerequisite: Art I & II

Drawing

SMSU 320 3 credits

Course # 14
Credit: ½ credit
Grade: 12
Prerequisite: Art III level and teacher approval

*Painting

SMSU 321 3 credits

Course # 15
Credit: ½ credit
Grade: 12
Prerequisite: Art III level and teacher approval

Students will explore a variety of art careers through art-related projects, such as fine artist (drawing and painting) book illustrator, graphic artist, animator (claymation or computer), art teacher and cartoonist.

This course is an introduction to the various elements of art and principles of design. The students will work on basic drawing, design, color theory, watercolor and tempera painting, sculpture, print making, book arts, acrylic painting and pottery.

This class consists of an in-depth study of techniques in drawing, painting, design, ceramics, sculpture, book arts and printmaking. Students work on developing their own individual style.

Art III is an advanced class in which the students will be expected to attempt more challenging work. The teacher will assign a variety of challenging assignments or students may choose their own area to study.

This is a college level studio course in which beginning drawing problems will be explored. College level artwork will be expected. Students will explore how formal elements, techniques, and materials combine with cognitive meaning. Advanced students will focus on self-directed projects and the development of significant content.

This is a college level study course in which beginning painting problems will be explored. College level artwork will be expected. Students will explore how formal elements, techniques, and materials combine with cognitive meaning. Advanced students will focus on self-directed projects and the development of significant content.

Digital Imaging

Course # 16

Credit: ½ credit

Grades: 11 & 12

Limit 10 students

*AS course

This class consists of learning basics of digital photography. Students will take pictures on location and learn how to use computers to edit them. The second quarter consists of learning how to use Photoshop C3 to manipulate and enhance photos. Students will learn how to use filters, create montages, slideshows, magazine covers and more.

Business

Business classes are not approved as NCAA core courses.

Business 9

Course # 20
Credit: 1/3 credit
Grade: 9
Prerequisite: none

Mean Jeans Business Simulation

Course # 21
Credit: ½ credit
Grade: 11-12
Prerequisite: none
*AS

Web Page Design

Course # 22
Credit: ½ credit
Grade: 10-12
Prerequisite: none
*MTP College Credit

Small Business Management

Course # 23
Credit: ½ credit
Grade: 10-12
*AS

Accounting I

Course # 24
Credit: 1 credit
Grade: 11-12
*AS

This class will cover the following topics: financial planning, careers, budgeting, saving and investing, credit, and insurance. This class will also involve part of the career exploration portfolio.

MEAN JEANS is a small business community work-flow simulation. Means Jeans Manufacturing Co. produces denim Products and interacts with 15 other businesses in a simulated business community to bring its products to market. By managing one of these 15 businesses, users earn by doing-being responsible for the daily operations and interacting with other business managers.

Students will learn the Dreamweaver CS3 software to create web pages. Pages for the MACCRAY website may also be created and maintained.

This is an introductory business course that will introduce students to basic economic concepts, marketing concepts and business planning. The students will learn about famous entrepreneurs and international business.

This course studies the accounting cycle for both service and merchandising businesses. Through the use of multicolumn workbooks and business simulations, the student will gain a basic background of accounting and its function in the business world today. Computerized simulations are also used in this class. Accounting I should be taken in the 11th grade so students may advance to Accounting II in 12th grade.

Business

Business classes are not approved as NCAA core courses.

Accounting II

Course # 25
Credit: 1 credit
Grade: 12
Prerequisite: Accounting I with grade "C" or better

*AS

Senior Strategies

Course # 26
Credit ½ credit
Grades: 12

Computer Applications

Course # 27
Credit : ½ credit
Grades: 10-12
Prerequisite none
*MTP College Credit

This advanced course in accounting will reinforce the concepts learned in Accounting I. It will include accounting procedures for partnerships and corporations, payroll, control and cost, and also the introduction of Automated Accounting. It is an independent study class. You come to class, but you work on your own.

This class is co-taught between the FACS and Business Departments. The focus of Senior Strategies is to prepare 12th graders for "the real world." Topics will include getting along with a roommate, dealing with stress, arranging living space in a dorm or an apartment, car care and repair of clothing, Projects and cooking labs on cooking for one or two, cooking on a budget, and entertaining will be included.

Microsoft Office and Desktop Publishing skills will be used in this class. Projects completed in this class will range from an autobiography, to a magazine, to a vacation project. Creativity and design skills are important for this class.

Computer Science

Desktop Publishing

Course # 30
Credit: 1 credit
Grade: 10-12
Prerequisite: Computer Literacy

This course will introduce the students to publishing using the computer. The students will enhance their writing skills suitable for publishing, and will learn skills towards that end. The major project for this class will be production of the MACCRAY yearbook PAWPRINTS. Demonstrations using the technology in the classroom will be presented to the class.

Computer Literacy

Course # 31
Credit: ½ credit
Grade: 9-12
Prerequisite: None

This course will provide the student with computer literacy skills for use in an information age. Topics for discussion will include history, computer occupations and commercially written programs. A word processing program and an information retrieval system will be discussed.

This class

English

**MN State Colleges and Universities require a minimum of 4 years/credits of English.
Most English classes are approved as NCAA core courses.**

Literature/Composition 9

Course # 38
Credit: 1 credit
Grades: 9
Prerequisite: none
NCAA approved

Literature: Short stories, essays, poetry, drama, and novels are studied with the intent to deepen the students' appreciation of literature, increase their understanding of human nature, explore author's craft, and literary elements. An emphasis will be placed on analyzing and responding to the literature using the language of the craft. The traits of an effective reader will be explored.

Composition: The writing process will be explored from the first prewriting stages to the final editing and publishing stages. The traits of an effective writer (ideas, organization, word choice, conventions, voice, and sentence fluency) will be emphasized throughout the class.

Composition/Literature 10

Course # 39
Credit: 1 credit
Grades: 10
Prerequisite: none
NCAA approved

Selections in drama, short stories, poetry and essays will instruct the student in major themes and concepts. Time will also be spent with media journalism, public speaking skills, use of reference materials, etc. The course will cover basic sentence and paragraph structure with an emphasis on descriptive, narrative, argumentative, and explanatory paragraphs. Particular attention will be paid to individual writing skills in preparation for the state writing exam. Public speaking will be included in this class, including persuasive, informative, demonstrative and explanatory presentations.

American Literature 11 (English 11)

Course # 40
Credit: ½ credit
Grades: 11
Prerequisite: none
NCAA approved

The course follows the development of American Literature from colonial days to the present. Literature studied will include short stories, poetry, essays, novel and drama. In addition to reading, there will be discussion and writing with special emphasis on evaluation of the various authors and selection. Literary elements such as satire, irony, local color, foreshadowing, objectivity, subjectivity, etc, will also be addressed.

English

**MN State Colleges and Universities require a minimum of 4 years/credits of English.
Most English classes are approved as NCAA core courses.**

Composition 11

Course # 41
Credit: ½ credit
Grade: 11
Prerequisite: none
NCAA approved

This course is designed to teach academic and school-to-work related writing skills. Essays, research papers, and technical writing will be emphasized. Career investigations and related writing will be required; SAT/ACT preparation materials will be studied.

British Literature (English 12)

Course # 42
Credit: ½ credit
Grade: 11&12
Prerequisite: none
NCAA approved

This course consists of a study of the literature of famous English writers who have made the most important contributions to literature. The students will study the historical significance of these writers as they focus on the “hero” of each era. A short analytical paper using MLA style will be written.

English Electives

(All students must take at least 1/2 elective credit of English.)

Speech/Drama

Course # 43
Credit: 1/2 credit
Grade: 11-12
Prerequisite: none
NCAA Approved

For approximately 14 weeks this course will develop the students' skills in oral communication and speaking in public. The main emphasis will be gathering the techniques, skills, and materials to effectively deliver any "talk" to an audience of any size. In addition, the basics of drama will also be studied. A few short plays will also be read and an analytical paper will be written using the MLA style. The drama portion of this class will cover about four weeks.

Novel/Creative Writing

Course # 44
Credit: 1/2 credit
Grade: 11-12
Prerequisite: none
NCAA approved

Part of this semester course will be spent studying the development of the novel, reading the novels of some significant authors and determining their importance. The remainder of the semester will be used to concentrate on the student's writing. Participants in this class will write a variety of material. Emphasis is placed on discovering and developing a personal writing style.

Academic Writing

Course # 46
Credit: 1/2 credit
Grade: 11-12
Prerequisite: none
NCAA Approved

This course will include 9-12 weeks of grammar study. Students will write a research summary or an analytical paper using the MLA style. It is recommended that students take this course before the ACT.

Local Literature

Course # 47
Credit: 1/2 credit
Grade: 11-12
Prerequisite: none

This course consists of the study of literature written by Minnesota, or regional authors. The student will be required to read numerous literary pieces, and to write several analytical essays and a paper using the MLA style.

English Electives

MN State Colleges and Universities require a minimum of 4 years/credits of English. Most English classes are approved as NCAA core courses. All students must take at least ½ elective credit of English

English 151: Intro to Rhetoric and Composition:

4 credits SMSU

Course #: 48
Credit: ½ credit
Grade: 11 or 12
Prerequisite: meet PSEO eligibility guidelines

Students will develop skills involved in writing the traditional essay in this beginning college writing course. Up to six papers will be written in this semester-long class. Three to four of those papers are narratives written in the first person. The remaining are two research papers, and an annotated bibliography. In order to take this class, the student must have a working knowledge of the following as they pertain to college writing: MLA style documentation, direct quotations, and paraphrasing. Discuss these requirements with teacher or counselor before registering. The mechanics of writing will be stressed in this class, and a strong command of the language, grammar and usage are essential for exemplary performance.

Media Literacy/Film Studies

Course # 36
Credit: ½ credit
Grades: 11&12
Prerequisite: none

In this class students will develop a comprehensive overview of the media's place in today's society, economy and culture. Students will develop research skills and engage in the applied analysis of media with different subjects... and develop a firm grounding in the different approaches to film analysis. Through the study of different types of media including film, television, print and radio to the production of several media projects the students will learn the impact of media technologies on the ever-changing global media environment.

Family and Consumer Sciences (FACS)

These classes are for everyone! FACS is an essential subject focusing on living skills needed to live and function effectively in our complex society. You will never ask yourself that familiar question, “Why do I need to know this stuff?”

FACS courses are not approved as NCAA core course.

Family and Consumer Sciences 9

Course # 52
Credit: 1/3 credit
Grades: 9
Prerequisite: none

Students are introduced to an occupational exploration program, designed to help deal with challenges which are thrown out in today’s world. Occupational and community awareness are experienced through the program. Elements of successful food and meal management, including entertaining, are also explored. A third component of the trimester class looks at personal finance. A program called “Your Checking Account” (sponsored by Citizens Alliance Bank of Clara City) will be completed.

Child Development

Course # 53
Credit: ½ credit
Grades: 11-12
Prerequisite: none
*AS

Do you have future plans working with children—coaching, teaching, parenting? This class presents a research-based study of growth and development from the prenatal stage through the age of six. Various learning strategies will be used. These may include large and small group discussions, observations of children noting physical, emotional, social and intellectual development, and a field trip to the hospital.

Foods

Course # 54
Credit: 1 credit
Grades: 11-12
Prerequisite: none

This class provided a chance to develop some worthwhile life skills while having a good time learning together. Cooking for today’s lifestyle with recent information on good health and nutrition will be included. Basic food preparation will be experienced throughout the semester. Preparation techniques will be included for baked items, (cakes, cookies, pies, and yeast and quick breads), soups, grain products, fruits and vegetables. Multicultural cooking explores a variety of food products, preparation techniques, and the significance of food and how it relates to various cultures. Students will plan and prepare foods representing regions of the United States as well as other areas of the world. Students are graded on class participation, cooking labs, and written work.

Family and Consumer Sciences
(FACS)

These classes are for everyone! FACS is an essential subject focusing on living skills needed to live and function effectively in our complex society. You will never ask yourself that familiar question, “Why do I need to know this stuff?”

FACS courses are not approved as NCAA core courses.

Senior Strategies

Course # 26
Credit ½ credit
Grades: 12

This class is co-taught between the FACS and Business Departments. The focus of Senior Strategies is to prepare 12th graders for “the real world.” Possible topics include healthy eating and avoiding the “Freshman Fifteen,” cooking on a budget, thirty-minute meals, etiquette and dining out, getting along with roommates, recognizing and handling stress, clothing maintenance, and dressing for success.

Foreign Language

MN State Colleges & Universities require a minimum of 2 years of a single world language.

Most Foreign Language courses are NCAA approved core classes.

Spanish I

Course # 59
Credit: 1 credit
Grade: 9-12
NCAA approved

Spanish I is a course that introduces a student to the skills of speaking, listening, reading, and writing Spanish. Many different teaching methods will be used, including tapes, songs, and games. The opportunity to travel to Spain, Mexico, or Costa Rica will be available in Spanish III or Spanish IV. An English grade of "C" or better is strongly recommended.

Spanish II

Course # 60
Credit: 1 credit
Grade: 10-12
Prerequisite: Spanish I
A grade of C+ is strongly recommended.
NCAA approved

The skill areas developed in Spanish I are expanded during the second year. A continuation of the study of customs and culture of Spanish speaking people is included. By the end of the second year, a student can expect to gain a fair measure of language fluency and a basic knowledge of the grammatical structure of Spanish. A field trip is taken and the opportunity to travel to Spain, Mexico or Costa Rica is available in Spanish III or Spanish IV.

Spanish III

Course # 61
Credit: 1 credit/4 college credits
Grade: 11-12
Prerequisite: Spanish II
A grade of B or teacher approval.
Must meet PSEO eligibility
NCAA approved
#201 4 credits given at end of Spring semester.

This course is an advanced college class offered through Southwest MN State University. Spanish III is a continuation of the study of grammar and a concentration on vocabulary and speaking. You will also be introduced to some Spanish literature and creative writing. A field trip is taken and the opportunity to travel to Spain, Mexico or Costa Rica is available. Students must have a B average.

Foreign Language

MN State Colleges & Universities require a minimum of 2 years of a single world language.

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Advanced Spanish IV

4 SMSU Credits # 202

Course # 62
Credit: 1 credit/ 4 college credits
Grade: 11-12
Prerequisite: B average in Spanish III
Must meet PSEO eligibility
requirement and teacher approval

#202 4 credits given Spring semester

Emphasis in the course is placed on the four language skills: listening, speaking, reading and writing. By the end of the year you will have built in the language skills you already possess in order to reach an intermediate leveling of the language. In addition you will be studying cultural topics aimed at helping you understand your own and Hispanic cultural perspectives. This course is an advanced course offered through Southwest MN State University

Industrial Arts

Industrial Arts courses are not approved as NCAA core courses.

Industrial Arts Technology 9

Course # 66
Credit: 1/3 credit
Grade 9
Prerequisite: none

Aviation

Course# 67
Credit: 1/2 credit
Grade 11-12
Prerequisite: none

Mechanical Drafting

Course # 68
Credit: 1/2 credit
Grade: 11-12
Prerequisite: none

Architectural Drafting

Course # 69
Credit: 1/2 credit
Grade: 11-12
Prerequisite: none

Two areas of exploration will be covered: drafting and introduction to machine woodworking.

Drafting: In drafting students develop an understanding of drawing techniques, develop skills in the use of drawing equipment and procedures as well as the ability to read and interpret drawings most commonly used in industry. Students will receive instruction on traditional drafting equipment and methods as well as an introduction to CADD (Computer Aided Drafting and Design) systems.

Machine Woodworking: In machine woodworking the students will learn the proper use of hand tools, power tools, and machines. They will also develop various woodworking skills in the completion of a project.

Aviation is a course that will give the student the opportunity to study transportation and aviation systems. Model making and design is used to inform and emphasize the need to be accurate in technical reading and building.

This course involves the study of mechanical drafting. Drawings of basic orthographic, auxiliary, section isometric and one-view drawings will be completed. Drawings will be made on drawing boards and Auto CADD computers.

This course involves the study of architecture and architectural drafting. Students will study what is involved in the planning of a house, drafting procedures and equipment, developing of lot plans, floor plans, elevations, detail drawings, section views, and framing drawings. Students will also be introduced to Auto CADD, and will develop a set of plans for a house of their own design.

Industrial Arts

Industrial Arts courses are not approved as NCAA core courses.

All Industrial Arts classes are open to boys and girls

Metals

Course # 71
Credit: ½ credit
Grade: 11-12
Prerequisite: none
Shop fee: \$5.00 plus additional fee for materials used

This course is designed to give students an introduction to the field of metals. Included in this course will be units on safety, fundamentals, equipment and tools, materials, joints and welds, applied math and career information. Students will gain hands-on experience through module work and individual/group projects. Examples of products built in this class include: hinges and hasps, tool boxes, metals art, and wheel barrows.

Welding

Course # 72
Credit: ½ credit
Grade: 11-12
Prerequisite: Metals
Shop fee: \$5.00 plus project materials

This course is designed to give students a broad background in the fundamentals of welding. Students will receive practical experience in welding safety, arc welding (electrode and mig) resistance spot welding, brazing, soldering, oxyacetylene welding and cutting plasma arc cutting, weld inspections and testing, and career information. Students will develop, design, and build a new product. Examples of products built in this class include: hinges and hasps, toolboxes, welding art, wheelbarrow, and trailers.

Machine Woodworking

Course # 73
Credit: ½ credit
Grade: 11-12
Prerequisite: none
Shop fee: \$5.00 and project materials

This course is designed to give students a broad background in the fundamentals of machine woodworking. Students will receive practical experience in product design, materials, methods of construction and machine use. Manufacturing fundamentals will be learned through the planning of construction or projects. Examples of projects are cabinets and tables.

Industrial Arts

Industrial Arts courses are not approved as NCAA core courses.

Advanced Woodworking

Course # 74
Credit: ½ credit
Grade: 11-12
Prerequisite: Machine Woodworking
Shop Fee: materials used

This course is open to students who have completed machine woodworking. Students will receive a deeper study of the manufacturing of woodworking. Emphasis will be placed on advanced methods of construction, advanced machine operation, problem solving and career opportunities. Students will construct cabinets, tables, chairs, desks, and chest of drawers.

Building Trades

Course # 75
Credit: 2 credit
Grade: 11-12
Prerequisite: none

Building trades is designed to give students broad background in trades related to construction. This class is a two hour block, lasting all year. Students will be working in all types of weather conditions. Included in the course will be units on operation of hand and power tools, leveling instruments, building materials, blueprint reading, plumbing, electrical, drywall and masonry construction. Students will gain hands-on experience through the building of structures large and small.

Graphics I

Course # 78
Credit: ½ credit
Grade: 11-12
Prerequisite: none
Fee: \$10.00
*MTP College Credit

Graphics is an exploratory course, which studies basic principles and techniques in presenting ideas in color, layout and design. Projects include freehand stencil making, vacuum forming and metal stamping.

Industrial Arts

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All Industrial Arts classes are open to boys and girls

Mathematics

**MN State Colleges and Universities require a minimum of 3 years/credits of math.
Most math courses qualify as NCAA core courses.**

Algebra Plus

Course # 83
Credit: 1 credit
Grade: 9-12
NCAA approved

This class studies the following topics: Linear graphs and symbolic properties, rates of change and intercepts, quadratic functions, exponential models, simplifying expressions, transformations and properties of symmetries, algebraic properties, and the use of statistical graphs and their interpretation. The concepts of perimeter, area, surface area and volume, Pythagorean theorem, simulation models developed through random numbers and binomial distributions are also covered.

Geometry

Course # 84
Credit: 1 credit
Grade: 10-12
Prerequisite: Teacher Referral

This course studies the following topics. It will be a study of angles, parallel lines and transversal. We will study geometric properties of all polygons with extensive work on quadrilaterals, triangles, as well as circles. These properties will include work on area, circumference, and volume. Proportions and similarity will be investigated as well as trigonometric functions.

*** Post Secondary Unacceptable**

Geometry Plus

Course: 85
Credit: 1 credit
Grades: 10-12
Prerequisite: Algebra Plus
NCAA approved

This class studies the following topics; The use of matrix models to solve real world problems, properties of parallel and perpendicular lines, quadrilaterals, reflections, rotations, translations, coordinate models, correlation, least square regression, power models and properties of exponents, angular and linear velocity, periodic functions, probability distributions, independent events and binomial distribution.

Mathematics

**MN State Colleges and Universities require a minimum of 3 years/credits of math.
Most math courses qualify as NCAA core courses**

Algebra 1.5

Course: 86
Credit: 1 credit
Grades: 11-12
Prerequisite: 1. **Algebra Plus** & either **Geometry**
or **Geometry Plus**
2. recommendation of math teacher
or administrator only

This is not a NCAA core course but will meet the
third year Mathematics requirement.

Algebra II Plus

Course: 87
Credit: 1 credit
Grades: 11-12
Prerequisite: C average in Geometry Plus
NCAA approved

Advanced Algebra II

SMSU 3 credits Math110

Course # 88
Credit: ½ credit
Prerequisite: Algebra II+
Must meet PSEO eligibility guidelines
3.0 grade point average and/or top 1/3 junior class
or top ½ of senior class

This course is designed for the student desiring
extra practice in the topics covered in the **Algebra
Plus, Geometry Plus, or Geometry** classes.
Successful completion of this course will satisfy the
third year mathematics requirement for graduation
from MACCRAY High School. Successful
completions of this course is designed to enable the
student to take Algebra II Plus as a senior in
preparation for further educational opportunities
after graduation.

This class studies the following topics: Multiple
variable models by a single equation or system of
equations including finding solutions to both
equations and inequalities, symbolic sense using
polynomials, exponential and rational expressions,
field properties and solutions using factoring and
the quadratic formula, mathematical reasoning by
deductive proof, analyzing and measuring public
opinion in elections, sample surveys, and political
polling. Also studied are families of functions
through numerical and graphical data, arithmetic
and geometric series and sequences, iteration,
recursion, inverse functions, circles and circular
functions and polynomials.

Mathematics topics for students who intend to
continue the study of mathematics at a higher level.
Topics include: equations and inequalities,
functions, graphs, polynomials, systems of
equations, exponential and logarithmic functions.
Prerequisite: 3 years of high school mathematics
Must have at least a B in Algebra II+

Mathematics

**MN State Colleges and Universities require a minimum of 3 years/credits of math.
Most math courses qualify as NCAA core courses.**

Advanced Trigonometry

SMSU 3 credits Math 125

Course # 90
Credit: ½ credit
Prerequisite: Must meet PSEO eligibility requirements.

Trigonometry, both circular functions and right triangle, trigonometric equations, logarithms, exponential functions, and complex numbers.
Prerequisite: 3 years of high school mathematics not including trigonometry, or consent of instructor

Probability/Statistics

Course: 91
Credit: ½ credit
Grades: 11-12
Prerequisite: Algebra II
NCAA approved

General coverage of fundamental statistical theory. This course develops problem-solving skills as students learn about probability, the handling of numerical data, random variables, binomial and normal distributions, sampling and estimation.

Music

MN State Colleges & Universities require 1 year of the fine arts.

Music classes are not approved as NCAA core classes.

Band

Course # 95
Credit: 1 credit
Grade: 9-12
Prerequisite: Students must be proficient enough on their instruments to perform in the respective group.
Fee: There is a fee for students who play a school owned instrument.
Wind \$25.00/Percussion \$15.00
Brass \$25.00

Students will attend all band rehearsals and specified performances (concerts, large group contest, and pep band.) Students will have the opportunity to be involved with solos and ensembles throughout the year. Jazz band is a special elective group of this band program.

Choir

Course # 96
Credit: 1 credit
Grade: 9-12
Prerequisite: To be in special groups such as Swing choir, you should have concert choir as a prerequisite for the groups benefit.

Students will be required to be at all daily rehearsals and every performance. Students have the option to perform in solos, ensembles, swing choir and with other special groups.

*Grades will reflect student performance and attendance. Ten excused or unexcused absences will result in failure of this class.

Jazz Band

Course # 97
Credit: ½ credit
Grade: 9-12
Prerequisite: Member of concert band

To be a member of Jazz Band a student must also be a member of the concert band. Students will be selected by audition, during the spring of the previous year. Jazz Band will meet every other day opposite Swing Choir. The emphasis of the class will be to understand and perform Swing, Latin, Jazz Rock and other jazz styles.

Swing Choir

Course # 98
Credit: ½ credit
Grade: 9-12
Prerequisite: Member of choir suggested

Swing choir meets twice a week opposite Jazz Band. Students are expected to go to the district music contest in the spring. Class emphasis: various forms of music, vocal techniques, music theory and dance techniques.
Grades will reflect student performance and attendance. Ten excused or unexcused absences will result in failure of this class.

Physical Education

Physical Education & Health classes are not approved as NCAA core courses.

Weight Training

Course # **100** (female) **101** (male)
Credit 1/2 credit (full year)
Grade 10-11
Prerequisite: none

Physical Education 9

Course # 102
Credit: 2/3 credit
Grade: 9
Prerequisite: none

Physical Education 10

Course # 103
Credit: ½ credit
Grade: 10
Prerequisite: none

Advanced Physical Education

Course # 104
Credit: ½ credit
Grade: 12
Prerequisite: open to students who have not
previously had the class

This course will focus on promoting a healthy, active lifestyle. Flexibility, posture, muscle tone, and cardio vascular improvement will lead to lifetime fitness. This course is open to both males and females.

Physical Education 9 will be taught as a co-ed class throughout the year with an emphasis on developing an awareness of the importance of physical fitness. Many different physical activities are taught; many individual “lifetime” sports will be included. An attempt is made to interest every student in at least one activity they will use in their leisure time

This course is designed to improve and/or increase physical fitness. Students will develop knowledge of individual and team sports with an emphasis on lifetime activities.

Students will develop an interest in and appreciation of activities that have a carry over value. There will be some choice in the activities offered. Activities are: golf, tennis, badminton, volleyball, basketball, bowling, weight training, softball, pickle ball, cross-country skiing, table tennis and frisbee.

Physical Education

Physical Education & Health classes are not approved as NCAA core courses.

Health

Course # 105
Credit: ½ credit
Grade: 10
Prerequisite: none

This course is designed to make students aware of their environment as it affects their health as well as the health of the community. This course is also designed to help the students realize that their own actions and attitudes are the final determinants of their own well-being. Holistic health is the issue, and they must start now to achieve it. Several units are covered in the course: mental health, disease, drug awareness, human growth and development, sexuality, stress, self protection, relationships and AIDS.

Emergency Medical Care

Course # 106
Credit: ½ credit
Grade: 10-12
Prerequisite: Individual and Community Health

This course will provide the student with the information necessary to provide emergency care in the case of trauma, illness, heart attack, and stroke as well as other types of emergencies. The student will experience scenarios that enable them to react in a calm and responsible manner while administering proper care to the injured or ill individual. Successful completion of the course will allow the student to be certified in CPR and Advanced First Aid

Medical/Health Care Careers

Course # 107
Credit: ½ credit
Grade: 10-12

In this class you will learn about a variety of health care careers; the educational requirements for each career, the type of work involved, as well as how to interact with patients and fellow health care professionals. Many topics in health will be addressed such as: behaviors for success in health care setting and communicating effectively as a health care worker while correctly identifying the emotional, spiritual, and social needs of a patient. Legal issues such as patient rights, confidentiality, ethical responsibilities and liabilities will be covered. Upon successful completion of this course students may have the opportunity to participate in a job shadow/internship experience within the medical field.

Science

MN State Colleges & Universities require 3 years/credits of Science.

Most science classes are approved as NCAA core courses.

Physical Science 9

Course # 111
Credit: 1 credit
Grade: 9
Prerequisite: none
NCAA approved

This is an introductory course devoted to laboratory experiences in which measurement skills, data analysis, laboratory techniques and lab reporting are stressed. Topics include energy and motion, forces, electricity and magnetism, elements, properties of matter, chemical reactions and energy transformations.

General Biology

Course # 112
Credit: 1 credit
Grade: 10
Prerequisite: none
NCAA approved

Biology involves the study of life. It includes an exploration and discussion of the unique characteristics of living organisms that set them apart from the non-living. Topics include ecology, biological diversity and conservation, the cell, genetics and reproduction, bacteria, viruses, protists and fungi, plants, vertebrates and invertebrates.

General Chemistry

Course # 113
Credit: 1 credit
Grade: 11-12
Prerequisite: None
NCAA approved

This course covers physical science methods, solids, liquids and gases. Classification of matter, atomic structure, the periodic table, chemical bonds, acids, bases and salts. Also covered will be organic and biological compounds, elements and their properties, chemical reactions, as well as acids and bases. This course is intended for individuals who intend on majoring in science or engineering in college.

Science

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Advanced Biology II MSCTC 101 4 credits

Course # 115
Credit: 1 credit
Grade: 11-12
Prerequisite: Student must meet PSEO eligibility requirements.

Environmental Science (Offered in the Fall)

Course # 116
Credit: ½ credit
Grade: 11-12
Prerequisite: none
NCAA approved

Animal Science (Offered in the Spring)

Course # 117
Credit: ½ credit
Grade: 11-12
Prerequisite: none
NCAA approved

Advanced Biology

Course # 118
Credit: 1 credit
Grade: 11-12
Prerequisite: Biology

A study of the cellular organization of an organism, its physiology and its genetics. The emphasis on cellular study includes its basic organization, metabolic activities (cellular respiration and photosynthesis), reproduction and heredity. Students will also study organic evolution and ecological interactions. Lab work will include outdoor activities, microscope work, molecular genetics and genetics principles. It is the first in a two-course sequence of general biology.

Environmental Science: The study of interrelationships equips students with the necessary information to understand the complex arena of environmental concerns, problems, and alternative courses of action. This semester course consists of five cohesive units; Part one-Interrelatedness; Part two-Ecological Principles and Their Applications, Part three-Energy, Part four-Human influences on Ecosystems; and Part five-Pollution and Policy.

This course will dive into the different varieties of animals. It is a semester course that consists of 5 cohesive units: Part one-Sponges, Cnidarians and Worms; Part two-Mollusks, Arthropods, and Echinoderms; Part three-Fishes, Amphibians, and Reptiles; Part four-Birds and Mammals; Part five-Animal Behavior.

This course will investigate several scientific concepts not discussed in college biology. It covers cells and its functions, viruses, bacteria, protists, fungi, plants, and human anatomy. Students will be required to read and report on two non-fiction books from a list of which are about medicine and disease.

Social Science

MN State Colleges & Universities require 3 years/credits of Social Science to include 1 year of World Geography.

Most Social Science classes are approved as NCAA core courses.

American History 9

Course # 120
Credit: 1 credit
Grade: 9
Prerequisite: none
NCAA approved

This is an American History course covering the period of 1850 to the social reform of the 1930's.

American History 10

Course # 121
Credit: 1 credit
Grade: 10
Prerequisite: none
NCAA approved

This is an American History course covering the period from 1930 to the present. This course provides a more in-depth study of some of the topics covered in ninth grade, with emphasis on 20th century America.

World History

Course # 122
Credit: ½ credit
Grade: 11-12
Prerequisite: none
NCAA approved

This course is designed to give the student an overview of some of the major events in world history and how these events have shaped civilization.

Psychology

Course # 123
Credit: ½ credit
Grade: 11-12
Prerequisite: none
NCAA approved

The class will be an introduction to the field of psychology. The history of psychology, methods used in psychology, the field of psychology today and careers in psychology are some of the area that will be covered.

World Religions

Course # 128
Credit ½ credit
Grade 11-12

World Religions is a survey class that introduces the world's major religions, including their belief systems and their impact on civilization.

Social Science

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Most Social Science classes are approved as NCAA core courses.

World Geography

Course # 125
Credit: 1 credit
Grade: 11-12
Prerequisite: C+ in American History 10 or
teacher approval
NCAA approved

This is a college bound class and solely recommended for those planning to attend a 4-year school. The major purposes are to (A) interest students in the world around them and formulate an appreciation of other countries culture, society, and physical uniqueness, (B) explain the interrelationships between countries of the world, (C) be able to locate and identify countries of the world. Students considering admission at a state university should take the full year course, as it is an admission requirement.

Current Events

Course # 126
Credit: ½ credit
Grade: 11-12
Prerequisite: none

In this course we study daily current events and units of current concerns. This includes knowing locations of countries on a map, their capitals, and leaders of major countries. We use TV news programs, news magazines, and daily newspapers. Skills such as picking fact from opinion, reading political cartoons, reading graphs and charts will be taught. In an election year the election will be closely followed. It is a course on the “day to day” happenings in our world. (This class may be taken both semesters but only once for social studies credit.)

Sociology

Course# 127
Credit: ½ credit
Grade: 11-12
Prerequisite: none
NCAA approved

This is a semester course. The class includes units on social problems, as well as sociological concepts. Some of the topics, which may be covered in this course, include: domestic abuse, aging, and sexual assault.

Social Science

MN State Colleges & Universities require 3 years/credits of Social Science to include 1 year of World Geography.

Most Social Science classes are approved as NCAA core courses.

Law in Everyday Life

Course# 129
Credit: ½ credit
Grade: 11-12
Prerequisite: none
NCAA approved

This is a semester course in which students will study a citizen's legal rights and responsibilities. The course mainly deals with criminal law and includes a field trip to court, speakers, and a mock trial. The class will place heavy emphasis on critical thinking and writing.

Economics

Course# 130
Credit: ½ credit
Grade: 11-12
Prerequisite: none
NCAA approved

This course is an examination of the modern world of economics at work. Emphasis will be on concepts that we live with in our own nation and to some extent with our world. We will pay special attention to the terminology of economics as is reflected in the daily news so that the student may better comprehend the economic activities of the country. Income tax will also be studied.

Government

Course# 131
Credit: ½ credit
Grade: 11-12
Prerequisite: none

This class will cover the American federal system. Units will be on the executive, legislative, and judicial branches, state government, voting, citizenship and the United States Constitution.

Alternative Learning

Pre Voc I

Course# 135
Credit: 1 credit
Grade: 10
Prerequisite: none

***Post secondary unacceptable**

Living on Your Own

Course# 136
Credit: 1 credit
Grade: 11
Prerequisite: none

***Post secondary unacceptable**

Career Skills

Course # 137
Credit: 1 credit
Grade: 12
Prerequisite: none

***Post Secondary unacceptable**

Work Experience

Course # 139- 1 credit
140 (1/2) credit
Grades: 11&12

Work Experience

Course # 140
Credit ½ credit
Grades: 11&12

Life Skills

Course# 141
Credit 1 credit
Grade 9
Prerequisite: none

Topics covered are personal interest, job search skills, independent living skills, being a smart consumer, and intrapersonal skills.

This class prepares students to deal with everyday situations at home and at work. Topics covered include employment laws, legal topics, apartment living, credit cards/checkbooks, and nutrition. There will be some field trips to enhance learning experiences.

This class is designed for students who are preparing for the world of work. It covers specific skills needed to survive in the job market such as filling out forms, preparing for interviews, and researching careers.

Students are given opportunities to obtain crucial skills regarding work experience. Students may find their own employment or staff will provide job opportunities. Goals and objectives will be developed for each individual student's needs.

Students are given opportunities to obtain crucial skills regarding work experience. Students may find their own employment or staff will provide job opportunities. Goals and objectives will be developed for each individual student's needs.

Students are introduced to the basics of daily living. They are given the opportunity to learn basic skills to understand the world beyond high school. They will learn how to cook basic goods and learn basic hygiene skills.

Alternative Learning

MACCRAY DRIVERS EDUCATION

Driver education is a tri-mester class (12 weeks)

Course #	148
Credit	1/3 credit
Book:	Prentice Hall "Drive Right" (revised 10 th edition)
Grades:	9 th grade
Prerequisite:	none

Mission Statement: The mission of the driver education curriculum in the MACCRAY School District is to teach students to become **SAFE and Responsible** drivers.

Program Outcomes:

1. The students will be able to recognize and understand that automobile driving is a mental and social task involving the interaction of drivers, vehicles, and environment.
2. The students will be able to define traffic regulations, rules, and specific driving processes.
3. The students will be able to understand the legal and moral responsibilities necessary for making the correct fundamental decisions for safe and efficient driving.
4. The students will be able to determine ways for preventing various psychological, physiological, social and other factors from having an adverse effect on their ability to perform the driving task.
5. The students will learn many techniques on how to become safe drivers.
6. The students will learn how important it is to use "COMMON SENSE" at all times when driving.

Grading Policy

50% of the trimester grade will be an average of the class tests.

30% of the trimester grade will be an average of the textbook worksheets/misc. assignments.

20% of the trimester grade will be an average of the textbook assignments/manual worksheets.

A- (90%-93%) A (94%-96%) A+ (97%-100%)

B- (80%-83%) B (84%-86%) B+ (87%-89%)

C- (70%-73%) C (74%-76%) C+ (77%-79%)

F (0%-69%)

Grading Policy cont.

There are no D's given in Driver Education. **It is a Minnesota state requirement that anyone under age 18 seeking a Minnesota state driver's license, must pass an approved driver education class and receive at least a 70% passing rate.** There-

fore, any student receiving a trimester grade lower than 70% will be given an F for the trimester.

These students will have to re-take the class during the final trimester of the year or wait until next year to re-take the course.

Absences:

Students will be allowed no more than five absences (excused or unexcused) of driver education class during the trimester. If students miss more than five class periods, they will be required to re-take the class in its entirety. Any problems with this policy, such as a planned vacation should be discussed with the instructor in advance.

Assignments:

All assignments must be satisfactorily completed and returned, in order for the students to receive credit for this class. This is required even if the student has a passing grade without the incomplete assignment.

Misc. Assignments:

Students will be required to:

*Complete a vehicle checklist for maintaining a vehicle (under an adult's supervision)

*Complete an interior drawing of a car and all of its dash gauges and light etc.

*Assemble a winter survival kit from a specific list supplied in class.

Late Assignments:

*Students will only receive ½ credit for any assignment turned in late.

*Students will only receive 1 point for any assignment that is more than two weeks late. (Remember that all assignments must be completed and returned)

Final Exam

Students will be required to pass a final exam from the MN Driver's Manual with a minimum grade of 70%.