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BROWERVILLE HIGH SCHOOL GRADUATION REQUIREMENTS

The Minnesota State Legislature has determined that the following credits must be earned in order to graduate from a Minnesota Public School. The students in grades 11 and 12 will be able to complete their graduation requirements under our present credit system.

<u>Subject Area</u>	<u>Browerville High School</u>
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English/Language Arts 4 credits; requiring a minimum of 1 credit per year

Math 3 credits (*Minn. Stat. § 120B.16 (2006)*)
Algebra II, Geometry and one additional elective
*Algebra I is offered in Grade 8

Science 3 credits
Physical Science, Biology and one additional elective
*The class of 2015 must complete either Physics, Chemistry, or Career Tech that encompasses the Physics or Chemistry standards.

Social Studies 4 credits to include
American Civics/Economics (required)
United States History (required)
World History (elective) Psychology (elective)
World Geography (elective) Sociology (elective)
World Cultures (elective) Current Events (elective)
Economics (elective)

Arts 1 credit
Performing Art (Band or Choir)
Visual Art (3D Art, 2D Art, or Art Basics)

***Electives:** 14 credits (Class of 2015); 13 credits (Class of 2016);
12 credits (Class of 2017); 11.5 credits (Class of 2018 and beyond)

***Required Credits** **29 Credits** (Class of 2015); **28 Credits** (Class of 2016);
27 Credits (Class of 2017); **26.5 Credits** (Class of 2018 and beyond)

*Due to the shift from a modified Block System to a Seven-Period Day, the total credits available to students has decreased, requiring a transition of required credits.

REQUIREMENTS FOR CLASSES UNDER THE BROWERVILLE SYSTEM EACH YEAR

Freshmen: English 9
American Government/Economics
Algebra II
Physical Science
Physical Education
Computer Application
Drivers' Education

Sophomore: American History
English
Biology
Geometry
Physical Education
Health Education

Junior: 1 Credit Social Studies
1 Credit English

Senior: 1 Credit Social Studies
1 Credit English

1 Credit Art (9-12) 1 Credit Science (11-12) 1 Credit Math (11-12)
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ADDITIONAL REQUIREMENTS

Graduation assessment requirements as outlined by the Minnesota Department of Education, May 2014

Grade 12 Student and Older in 2014-2015 (first enrolled in grade 8 in 2010-2011 or earlier) can meet graduation assessment requirements in one of three ways:

1. Meet graduation assessment requirements in GRAD testing in reading, mathematics, and writing. This includes:
 - a. A proficient score (Meets or Exceeds the Standards) on the MCA Reading (Grade 10) and the MCA Mathematics (MCA-Modified and MTAS).
 - b. A passing score on the GRAD Writing test (grade 9), GRAD Reading, and GRAD Mathematics retests. This also includes modified scores dictated by IEP.
2. Complete an ACT assessment for college admission, or the ASVAB assessment in Mathematics, Reading and Writing *Most Browerville students completed this in Grade 11
3. Complete the Accuplacer Assessment in Reading and Mathematics.

Grade 11 Student in 2014-2015 (first enrolled in grade 8 in 2011-2012) can meet Graduation Assessment requirements by either:

1. Participating in the ACT plus Writing (college entrance exam) during the statewide administration in 2014-2015. *New this year
2. If unable to participate in the ACT plus Writing, graduation requirements for Grade 12 Students and Older in 2014-2015 can be met.

LANGUAGE ARTS

COURSE TITLE: ENGLISH 9
PREREQUISITES: NONE
LEVELS: 9

All students will have a core reading selection in the various genres: short stories and poetry (various authors), novel (*Of Mice and Men*), drama (*A Midsummer Night's Dream*). Student responses to the core reading will vary. However, emphasis will be placed on introducing the critical essay in fiction according to pre-established criteria.

COURSE TITLE: ENGLISH 10
PREREQUISITES: ENGLISH 9
LEVELS: 10

Students will have the opportunity to enhance and develop reading, speaking, writing, and thinking skills. Students will engage in reading or viewing and discussion of information and literature via articles, film, novels, and Internet. Students will be expected to read/share stories and narratives, discuss journal writing, and to do required reading. However, emphasis will be placed on critical reading and critical thinking skills.

COURSE TITLE: COMPOSITION I (high school or college credit)
PREREQUISITES: GPA Requirement and Accuplacer Score of 78 in Reading Comprehension
LEVELS: 11-12

This is a writing course. Students may take the course for college credit if they meet GPA and Accuplacer score guidelines. Students will write a minimum of seven formal essays, which may include the following writing strategies: process, interpretation, evaluation, description, narration, exemplification, comparison contrast, definition, analogy and classification. Students may also be asked to write journals, a resume and cover letter, and to review grammar.

COURSE TITLE: COMPOSITION II (high school or college credit)
PREREQUISITES: COMPOSITION I (must receive college credit for Comp. I to receive college credit for Comp. II)
LEVELS: 11-12

This is a writing course. Students may take the course for college credit if they successfully complete Composition I. Students will write a minimum of five formal essays, demonstrating their familiarity with the following rhetorical strategies: analysis (of ideas or human situations into comparable or constituent parts) cause and effect reasoning, inductive/deductive reasoning, and argument/persuasion. Subjects may be but are not limited to reaction, evaluation, and interpretation of literature and/or socio-cultural phenomena. Students will learn the principles of the academic research process and their essays will demonstrate a command of both the APA (American Psychological Association) and the MLA (Modern Language Association) formats.

COURSE TITLE: INTRODUCTION TO LITERATURE (high school level)
PREREQUISITES: NONE

LEVELS: 11-12

This is a high school level course that will involve reading, analyzing, discussing, and writing about different genres of literature. Selected works will include short stories, poetry, drama, and novels. Students will expand their reading experience, develop a deeper appreciation for creative literature, explore literary concepts (plot, point of view, characterization, setting, symbolism, theme, tone, figurative language, stream-of-consciousness.), and learn techniques for literary interpretation.

COURSE TITLE: INTRODUCTION TO LITERATURE (college level)
PREREQUISITES: Accuplacer Score of 56 in Reading Comprehension
LEVELS: 11-12

Introduction to literature is a survey course of great, creative literature, specifically prose, drama, and poetry. In addition to developing personal responses to the selected works in the course, students will become adept at discussing and analyzing literature and will develop fluency in literary concepts (plot, point of view, characterization, setting, symbolism, theme, tone, figurative language, stream-of-consciousness, Realism, et. al.). For students wishing to continue study in poetry, drama, American, or world literature, this course is a necessary starting point. Students who wish to expand their reading experience, develop a deeper appreciation for creative literature, and learn techniques for literary interpretation will also benefit greatly from this course.

COURSE TITLE: MEDIA ARTS
PREREQUISITES: NONE
LEVELS: 11-12

The course will cover the impact of mass media on our values, attitudes, and perceptions of reality. The major course goal is to enable students to better understand how mass media and the rapid pace of change affect our lives and our society. Main units include news, advertising, television, film, and radio. Writing the school newspaper is included in this course.

COURSE TITLE: READING
PREREQUISITES: NONE
LEVELS: 11-12, 10 in Spring

This reading course is designed to develop reading skills: fluency, comprehension, vocabulary. Students will work on a variety of strategies, including choosing appropriate books, making connections, retelling, summarizing, determining main points and supporting information, imagery, etc. Students will be expected to do read-alouds and work with other class members, as well as the instructor. Writing is also an element in this course and is done mainly in journals. This reinforces the tie between reading and writing. Critical thinking and self-awareness of reading skills is emphasized.

COURSE TITLE: SPANISH I
PREREQUISITES: NONE
LEVELS: 10-12

In Spanish level one, students will study basic vocabulary and grammar structure, and form basic sentences. Students will also be able to reach and understand basic conversations as well as create oral dialogues in the target language. Spanish and Latin American culture will also be taught.

COURSE TITLE: SPANISH II
PREREQUISITES: SPANISH I
LEVELS: 10-12

In Spanish II, students will reinforce their vocabulary and grammar that was previously learned as well as study new and more complex structures. Students will also read, write and speak at a more complex level. Students will perform some research of foreign countries.

MATH

COURSE TITLE: ALGEBRA I
PREREQUISITES: NONE
LEVELS: 8

Algebra I is the foundation for the algebraic standards. It covers all operations for the rational number system. It uses terminology, symbolism, transformations and graphing in analyzing and solving problems using linear equations and functions. Algebraic fractions, expressions, monomials, exponents, polynomials are introduced. Quadratic functions are learned to solve problems and as a concept for minimum and maximum of parabolas.

COURSE TITLE: ALGEBRA II
PREREQUISITES: ALGEBRA I
LEVELS: 9

Algebra II analyzes patterns and concepts of usage to represent mathematical relationships to solve problems in a variety of ways. The course covers all operations of the real and complex number systems. This includes monomial, polynomial, direct and inverse variation, radical equations, linear equations and inequalities and their system, quadratic formula, conic sections, functions, relations and absolute values.

COURSE TITLE: GEOMETRY 10 & ADVANCED GEOMETRY 10
PREREQUISITES: ALGEBRA II
LEVELS: 10

A study of geometric figures in 2 and 3 dimensions including a.) congruence and similarity, b.) perimeter, area and volume, c.) distance, d.) scaling, e.) transformations, f.) symmetry, g.) basic trigonometry, h.) construction techniques and i.) coordinate geometry. Specific vocabulary will be used to communicate, read and write. Proofs and introduced in a gradual manner and expanded to include new definitions, properties, postulates, theorems and corollaries.

COURSE TITLE: COLLEGE ALGEBRA
PREREQUISITES: GEOMETRY 10, and ACCUPLACER CUT SCORE
LEVEL: 11-12

Course Objectives: The purpose of this course is to prepare the student for the regular calculus sequence upon entering college.

Course Content: Real Numbers; Quadratic Equations; Complex Numbers, Other Types of Equations; Inequalities; More on Inequalities; Rectangular Coordinate Systems, Graphs of Equations; Definite of Function; Graphs of Functions; Operations on Functions; Inverse Functions; Graphs of Polynomial Functions of Degree Greater than 2; Properties of Division; Zeros of Polynomials; Complex and Rational Zeros of Polynomials; Rational Functions; Angles, Trigonometric Functions of Angles.

COURSE TITLE: STANDARDS MATHEMATICS
PREREQUISITES: NONE
LEVELS: 11-12

In this course we will study statistical data in real-world situations. We will learn how to represent this data in many different ways and use measures of central tendencies and variability to compare sets of data. The course will also cover probability and its many uses it has in everyday life. We will use appropriate counting procedures, calculate probabilities in various ways and apply theoretical probability concepts to solve real-world and mathematical problems.

ARTS

COURSE TITLE: ART BASICS
PREREQUISITES: NONE
LEVELS: 9-12

The purpose of this introductory senior high art class is to give the student an opportunity for exploring various mediums used in art and concentrate on improving their design skills. Projects will be based on themes, and the study of art history and criticism, along with art careers will be included. This course requires self-management, problem solving skills, and the ability to meet deadlines. A completed portfolio of work is required for this class.

COURSE TITLE: 2D ART
PREREQUISITES: ART BASICS
LEVELS: 9-12

The purpose of 2D Art is to build students skills in drawing, painting, photography, and printmaking. Techniques used in these types of art will be explored, along with the study of art history and criticism. This course requires self-management, problem solving skills, and the ability to meet deadlines. A completed portfolio of work is required for this class.

COURSE TITLE: 3D ART
PREREQUISITES: ART BASICS
LEVELS: 9-12

The purpose of 3D Art is to build students skills in sculpture and ceramics. Techniques used in these types of art will be explored, along with the study of art history and criticism. Some drawing will also be required in this course. This course requires self-management, problem solving skills, and the ability to meet deadlines. A completed portfolio of work is required for this class.

COURSE TITLE: HIGH SCHOOL BAND
PREREQUISITES: CADET BAND
LEVELS: 9-12

In High School Band, students will learn to perform numerous styles of music. These presentations will take place at concerts, contests, athletic events, parades, and special events per year. Students will be informed of the number required to achieve awards/letters to be completed at the end of the year. Students may select this standard to be completed towards graduation, which will be in the form of a performance package above and beyond daily rehearsal.

COURSE TITLE: HIGH SCHOOL CHOIR
PREREQUISITES: AUDITION
LEVELS: 9-12

Students in High School Choir work on developing proper vocal production through various exercises to expand their singing range and improve their tone. They will gain exposure to many musical styles and literature including Bach, Beethoven, folk songs and popular music. They rehearse daily in preparation for concerts and contests, many ensembles evolve from the High School Choir including Pop Singers, Triple Trio, Men's Ensemble, quartets and duets broadening their musical experiences. These small groups also perform at concerts, contests, and community events. Students will be informed of the number of points required to achieve awards/letters to be completed at the end of the year. Students may select this standard to be completed towards graduation, which will be in the form of a performance package above and beyond daily rehearsal.

SCIENCE

COURSE TITLE: SCIENCE 9
PREREQUISITES: NONE
LEVELS: 9

This course is an introduction to chemistry and physics and as such explores the many facets of matter as well as the relationships between matter and energy. Emphasis is placed on establishing a solid foundation for the advanced study of chemical and physics should the student desire to do so. Stress is placed on the study of the elements and various forms of energy such as heat, light, sound, and electricity. The relationship of electricity to magnetism and its effect on everyday living is emphasized. The course offers the student ample opportunity to familiarize the student with the standard laboratory apparatus and improve their reading comprehension and scientific vocabulary.

COURSE TITLE: **BIOLOGY**
PREREQUISITES: NONE
LEVELS: 10

High School Biology focuses on life science in developing an understanding of cell structure and function. This covers the relationship of matter and energy in biological system, heredity, evolution, and the behavior and interdependence of organisms. Application of understanding will be demonstrated in lab reports, investigations, and research, as well as tests in areas covered.

COURSE TITLE: **CHEMISTRY**
PREREQUISITES: NONE
LEVELS: 11-12

This course is built on the foundation established in grade nine physical science. It explores the composition of matter from the structure of the atom and the properties of the elements through chemical reactions to form compounds and their reactions with each other. Concepts covered include chemical bonds, physical states, oxidation-reduction reactions and the periodic law. Emphasis is placed on chemical shorthand such as writing formulas, balancing equations, and stoichiometry (calculation of combining weights). The main objective of the course is to teach the student to be respectful of chemicals and their possible reactions. The course offers the student ample laboratory experience for he/she to become skilled in the use of chemicals and chemical apparatus.

COURSE TITLE: **CHEMISTRY**
PREREQUISITES:
LEVELS: 11-12

The course is structured for students interested in science and planning to pursue a scientific career. The course is a continuation of first year chemistry with units in organic chemistry, semi micro qualitative analysis (what an unknown is composed of) and quantitative analysis (how much of a given element is present). Advanced stoichiometry is emphasized, as are laboratory techniques such as titration used in volumetric analysis, analytical measurement used in gravimetric analysis, and chromatography and spectroscopy used in qualitative analysis. The principles for formula writing incorporated in organic chemistry are introduced. Skills in precise measurement are refined and the basic theories of electronics are covered. The course offers the student an opportunity to further his/her scientific ability in research and laboratory procedures.

COURSE TITLE: **PHYSICS I**
PREREQUISITES: GRADE 9 SCIENCE AND ALGEBRA I
LEVELS: 11-12

The course is the study of matter and energy and their relationship to each other. The course begins with an expansion of theories for measurement, which were laid down in grade nine science. The study of matter itself is also expanded from the foundation acquired in grade nine science. Other topics covered in the course include units on the different forms of energy such as heat, light, and sound as well as a unit on the modern applications of physics to such devices as nuclear reactors, radar, lasers, etc. Emphasis is placed on problem solving and reading comprehension. The course offers the student several different facets of knowledge such as added experience in mathematics,

development of accuracy through the use of minute quantities, and manual dexterity through laboratory work.

COURSE TITLE: **PHYSICS II**
PREREQUISITES: **PHYSICS I**
LEVELS: **11-12**

This course is the expanded study of matter and energy and their relationship to each other. The course begins with an expansion of the theories for measurement, which were laid down in grade nine science. The study of matter itself is also expanded from the foundation acquired in grade nine science. Other topics covered in the course include units on different forms of energy such as heat, light, and sound as well as a unit on the modern applications of physics to such devices as nuclear reactors, radar, lasers, etc. Emphasis is placed on problem solving and reading comprehension. The course offers the student several different facets of knowledge such as added experience in mathematics, development of accuracy through the use of minute quantities, and manual dexterity through laboratory work.

COURSE TITLE: **GENERAL SCIENCE I**
PREREQUISITES: **BIOLOGY 10**
LEVEL: **11-12**

Ever wonder what is beyond our atmosphere? In astronomy we will explore the objects in outer space. This will include the moon, the milky way, planets of our solar system, and comets to name a few. Students will learn the history of astronomy including an introduction to ancient as well as current astronomers. Star gazing nights will be optional and a very fun learning experience.

COURSE TITLE: **HUMAN BIOLOGY**
PREREQUISITES: **BIOLOGY 10**
LEVEL: **11-12**

This course offers a study of human anatomy and physiology, along with exploration of diseases, careers and issues in the health care field. There is also a dissection lab component, where the students get experience in technique of dissection and identification of anatomical systems.

COURSE TITLE: **GENETICS/RIVER WATCH (Advanced Biology)**
PREREQUISITES: **BIOLOGY 10**
LEVELS: **11-12**

This is a two-part course. The first is genetics, where the students study the history and applications of Mendel's laws of heredity. They will conduct experiments on fruit flies and a population study of genetics in the lab. Included will be research on contemporary issues in genetics. The second is biochemical analysis of a local river. The course is lab based where the students will demonstrate their ability to follow a set of protocols to analyze parameters of a healthy river. Included will be a macro invertebrate study. They will also understand how a watershed contributes to the environment.

COURSE TITLE: GREENHOUSE/BOTANY I & II

PREREQUISITES: BIOLOGY 10

LEVELS: 11-12

This course is designed to give the student a hands-on approach to Botany. It consists of setting up hydroponics systems, raising plants, and group project (Easter Lilies and community plantings). Included will be the structure and purpose of plants. Also, the students will have the opportunity to design their own garden, hydroponics system, or greenhouse.

COURSE TITLE: ENVIRONMENTAL EDUCATION/HUNTERS BIOLOGY

PREREQUISITES: NONE

LEVELS: 9-12

In this environmental education class, students will learn about animals in Minnesota. Students will learn about white tailed deer, black bear, moose, wolves and more. Size, reproduction, habitat will all be covered for each animal. Students will also choose a career investment to research. Other things to be covered will be carrying capacity, ecology, soils, and anything students show interest in.

COURSE TITLE: GENERAL SCIENCE II

PREREQUISITES: BIOLOGY & PHYSICAL SCIENCE – SUCCESSFULLY COMPLETED

LEVELS: 11-12

This is a general science course for juniors and seniors. This class is designed for students with an interest in science needing to fulfill science standards but are not interested in the upper level science courses currently offered.

The students will cover a variety of topics that are generated by the students. The Scientific Method of research will be a prime focus of the class and applied to various scientific areas. Students will be required to complete worksheets, labs, projects, quizzes, and tests.

SOCIAL STUDIES

COURSE TITLE: AMERICAN GOVERNMENT
PREREQUISITES: NONE
LEVELS: 9

This course provides an introduction to the origins of government and how it developed to our present system. Students will study the constitution, Native American rights, and the workings of local government, political parts, workings of all levels of governments.

COURSE TITLE: AMERICAN HISTORY
PREREQUISITES: NONE
LEVELS: 10

This course provides a look at American History from the Civil War through to Current American History. A study of the cause/effects of major historical events – WWI, 20's, and Depression, WWII, Korea, 60's to Vietnam War, and on to recent events. Students will work on a project "Themes of US History" to compare a theme as it relates to several time periods.

COURSE TITLE: WORLD HISTORY
PREREQUISITES: NONE
LEVELS: 11-12

In this course, we will study the happenings of ancient history around the world: From the Ancient Egyptians in the eastern hemisphere, to the American Indians in the western hemisphere. We will learn how civilizations came about and how different cultures have helped shape our world today. Students will work on projects involving research, creativity, cooperation, and presentation skills.

COURSE TITLE: WORLD GEOGRAPHY
PREREQUISITES: NONE
LEVELS: 11-12

In this course, we will study the internal and external forces that shape the earth, the study of population and culture and its impact on the world. We will also study various regions of the world, which will include map studies and map tests.

COURSE TITLE: MASS MEDIA
PREREQUISITES: NONE

LEVELS 10-12

The course will cover the impact of mass media on our values, attitudes and perceptions of reality. The major course goal is to have students better understand how the mass media and the rapid pace of change affect our lives and our society.

COURSE TITLE: ENTREPREURSHIP/ECONOMICS
PREREQUISITES: NONE
LEVELS: 11-12

Students will develop an understanding of the contributions that entrepreneurs make to the economy. They will develop an understanding of the key personal characteristics identified with successful entrepreneurs. They will also become aware of their own business skills and abilities, and learn how to develop them. Students will evaluate business trends and see how they create opportunities for entrepreneurs. Students will also discuss and learn about the global challenges and opportunities that face entrepreneurs today and in the future.

BUSINESS EDUCATION

COURSE TITLE: PRCI (Personal Resources Career Investigation)
PREREQUISITES: NONE
LEVELS: 7

Transitioning from elementary to junior high is a big step for 7th graders. PRCI class is designed to help students with that transition. Topics include planner usage, organization skills, setting goals & priorities, handling teacher's expectations, understanding the grading system, how to read textbooks, note taking, studying for tests, & tips for taking tests. We also spend time looking at career clusters so students can begin preparing for their future.

COURSE TITLE: COMPUTER APPLICATIONS
PREREQUISITES: KEYBOARDING
LEVELS: 9

This course is designed to give the students a basic understanding of the computer as it relates to a variety of personal and educational applications. Word processing using Microsoft Word will be the main focus of the class. Excel (spreadsheets) & Publisher (desktop publishing) will be briefly introduced.

COURSE TITLE: PERSONAL FINANCE
PREREQUISITES: NONE
LEVELS: 9-12

Students will learn & apply skills that will help make them financially self-sufficient. Focus begins with the basics of financial planning which calculating pay & benefits, figuring taxes, creating a

budget, beginning a savings account & investing in different investment alternatives, opening & operating a checking account, understanding the credit & loan process, & the basics of insurance. There are many of hands-on experiments & projects.

COURSE TITLE: CAREER/COLLEGE READINESS
PREREQUISITES: NONE
LEVELS: 11-12

Are you ready for life after high school? Are you planning on going to college or go straight into a job? This course will answer “real life” situations that will soon happen in your life. We will help you explore your interests, strengths, & skills to help you decide what the best step is for you after high school.

Students will identify programs of study that interest them and schools that offer those programs. We will also explore options for paying for school. Students will also investigate possible careers opportunities, create resumes & cover letters, and take part in the interview process.

COURSE TITLE: ACCOUNTING I
PREREQUISITES: NONE
LEVELS: 10-12

Interested in pursuing a business major in college? Will you own your own business & need to understand the financial records? Would you like to maintain your personal financial records If so, this introductory accounting course is for you! Students will learn how & why accounting principles are used in a business. You will learn record keeping for a sole proprietorship, the different financial forms used within a business, and complete the accounting cycle using financial statements. In addition, basic payroll procedures are covered. If you’re thinking about a career in any business field, you will need to know accounting!

COURSE TITLE: ACCOUNTING II
PREREQUISITES: ACCOUNTING I
LEVELS: 10-12

This course is for students who want to know more about business procedures and business records than can be learned in Accounting I. Partnership & corporation cycles are emphasized while operating a merchandising business. Students will complete a simulation that puts “real world” applications into practice as they journalize daily transaction & end by creating financial statements for a company.

COURSE TITLE: BUSINESS SKILLS
PREREQUISITES: NONE
LEVELS: 10-12

Students will learn different job-related skills especially important in business and office settings such as file management, 10-key pad calculations, advanced computer skills, various office machines, and proper business communication & etiquette.

COURSE TITLE: ECONOMICS

PREREQUISITES: NONE

LEVELS: 11-12

*** These classes count as a Social Studies class & can be used to fulfill your Social requirement

Micro is offered 1st semester

Microeconomics is the study of how individuals & businesses make decisions regarding the distribution of resources and prices of goods and services. We will concentrate on scarcity, business organizations, production, financing, and supply & demand.

Macro is offered 2nd semester

Macroeconomics will study the economy as a whole (looks at government decisions regarding the economy). We will study economic measurements such as GDP (Gross Domestic Product), unemployment, money & banking, and the Federal Reserve System. We will also look at business & trade between the U.S. and other countries.

HEALTH/PHYSICAL EDUCATION/DRIVER'S ED

COURSE TITLE: 9TH GRADE PHYSICAL EDUCATION

PREREQUISITES: 8TH GRADE PHYSICAL EDUCATION

LEVELS: 9

This course is designed for students to maintain a high level of fitness and to obtain extensive knowledge of the rules and history of each activity, also emphasizing the opportunity for students to participate in coeducation and co-recreation carry over activities. These activities include units in social dance, soccer, gymnastics, floor hockey, recreational games, physical fitness testing, speedball, tennis, archery, basketball, and volleyball.

COURSE TITLE: 10TH GRADE PHYSICAL EDUCATION

PREREQUISITES: 9TH GRADE PHYSICAL EDUCATION

LEVELS: 10

Today there is great emphasis put on personal fitness programming for people of all ages. Billions are spent on exercise programs and equipment. It is the emphasis of this course to make sure students understand the principles of training necessary to develop and implement a personal fitness program specific to individual needs and goals. The student will also participate in activities for lifetime recreation and leisure including knowledge of rules and strategies of each activity.

COURSE TITLE: 10TH GRADE HEALTH
PREREQUISITES: NONE
LEVELS: 10

Today people are taking a greater interest than ever before in their health. They are trying, not only to stay healthy, but also to reach the highest possible level of good health or wellness. To achieve health and to stay healthy, you need to be aware of what is meant by health and of what kinds of things affect your health. There is a great variety of health information out to help you. Topics chosen may vary slightly with more emphasis put on current health issues so as to keep informed of relevant community and world health issues.

COURSE TITLE: HEALTH OCCUPATIONS
PREREQUISITES: NONE
LEVELS: 11-12

CNA: This course introduces concepts of basic human needs, care of clients, basic nursing skills and medical terminology. This program meets the mandatory State of Minnesota requirements for Nursing Assistant Training and is an approved training site. Upon satisfactory completion of the program, the student may apply for the Nursing Assistant registry examination. Course articulates for credit at area colleges.

MEDICAL TERMINOLOGY/CPR: Students will take CPR and First Aid courses for certification and will study the Minnesota Health Care Core Curriculum course as approved by the MN State College System.

COURSE TITLE: LIFE TIME PHYSICAL EDUCATION
PREREQUISITES: NONE
LEVELS: 10-12

Carry-Over Sports not only meet a present need, but also helps prepare the student with a varied background in skills and knowledge, so that he or she may enjoy lifetime activities after leaving school. Since many people earn their livelihoods doing sedentary work, a physical activity in their spare time is necessary to help maintain good health. Many lifetime sports are offered throughout the course such as; volleyball, bowling, tennis, softball, golf, archer, recreational games, broomball, badminton and lacrosse.

COURSE TITLE: DRIVERS EDUCATION
PREREQUISITES: NONE
LEVELS: 9-12

Driver Education Programs, including this course, are designed to help prepare the student to learn to drive properly, learn the rules of the road, and pass the written and road test of Minnesota.

VOCATIONAL AGRICULTURE/WOOD FINISHING

COURSE TITLE: FARM MECHANICS/WELDING
PREREQUISITES: NONE
LEVELS: 11-12

This course will cover welding, welding safety practices and identification of metals. Students will learn how to use oxy, TIG, MIG, and arc welders. They will also learn a variety of welds. The farm mechanics part of the course will be working with large engines, like automobiles, tractors, and other equipment. They will also do project work of their own in the class.

COURSE TITLE: SMALL ENGINES
PREREQUISITES: NONE
LEVELS: 11-12

Five weeks are allocated to demonstrate use of special tools and test equipment and to develop an understanding of how engines work. Next students completely disassemble and reassemble an assigned engine. When the engine runs properly, students are allowed to bring in their own engines for tune-up or overhaul.

COURSE TITLE: EXPLORING AGRICULTURE
PREREQUISITES: NONE
LEVELS: 9-12

This course is an introduction to agriculture and agribusiness “Scratches the surface” in production of food and fiber. Agri-business occupations, small engines, welding, natural resources and includes leadership training in career exploration. Study and experience in the preservation and improvement of natural resources. Cover the basic parts of soils. This class will also cover small animal care, which would include pets. Students will do a little work on small engines and basic welding and learn general automobile maintenance and care. Students will also spend a little time on career exploration and see where agriculture is going in the future and job outlooks.

COURSE TITLE: CO-OP EDUCATION
PREREQUISITES: NONE
LEVELS: 11-12

This course provides exploratory on-the-job training in an agribusiness or on a farm.

COURSE TITLE: WOOD FINISHING
PREREQUISITE: NONE
LEVELS: 9-12

This course has been designed to aid anyone interested in the fundamentals of materials, tools, and processes that are used in the building of cabinets and interiors, the production of furniture and other work of the finish carpenter or cabinetmaker. Emphasis will be placed on proper work procedures, plans and work safety.

SPECIAL EDUCATION

COURSE TITLE: SPECIAL EDUCATION

SPECIAL ED READING – A course teaching reading recognition, reading comprehension and word attack at each student’s appropriate level.

SPECIAL ED MATH – A course teaching math calculation, math operations and math reasoning at each student’s appropriate level.

SPECIAL ED ENGLISH – A course teaching spelling, writing and language skills at each student’s appropriate level.

RESOURCE ROOM – A course designed for special ed students to work on reading, math, written language, social and life skills at their own appropriate level.

SPECIAL ED BIOLOGY – A course teaching the human body, first aid and an introduction to animal and plant life at each student’s appropriate level.

SPECIAL ED HISTORY – A course of United States History along with map skills and basic geography of the U.S. at the student’s appropriate levels.

COMPUTER SCIENCE

COURSE TITLE: ARIES – SEMESTER I

PREREQUISITES: NONE

LEVELS: 9-12

The Aries curriculum is an on-line based technology-training module. The Aries curriculum contains 11 – 14 sequential units, containing 5 lessons each. Within each lesson students encounter an overview of content, relevant exercises, a summary of information and a practice quiz. Semester 1 concentrates on the history of computers, safety, and computer hardware. Students may also be working with web page development and iMovie presentations.

COURSE TITLE: ARIES – SEMESTER II

PREREQUISITES: NONE

LEVELS: 11-12

The Aries curriculum is an on-line based technology-training module. The Aries curriculum contains 11 – 14 sequential units, containing 5 lessons each. Within each lesson students encounter an overview of content, relevant exercises, a summary of information and a practice quiz. Semester 2 concentrates on operating systems such as MS-DOS and various versions of Windows for workstations and servers. Basic networking and troubleshooting are also presented. Students may also be working with web page development and iMovie presentations.

INSTRUCTORS ASSISTANT

COURSE TITLE: CROSS-AGE
PREREQUISITES: SENIOR
LEVELS: 12

Through practical experience the student will explore possible career choices and occupational opportunities.

BHS/CONCURRENT COLLEGE CLASSES

COURSE TITLE: COMPOSITION I
PREREQUISITES: NONE
LEVELS: 10-11

Focus on basic writing skills, writing as a process, and consideration of elements such as purpose, audience, tone, voice, and persona. Understanding mechanics emphasized. Writing will be primarily descriptive and narrative.

COURSE TITLE: COMPOSITION II
PREREQUISITES: COMPOSITION I
LEVELS: 11-12

An opportunity to apply and expand the skills and concepts of acceptable composition for a variety of academic purposes and situations. Geared to, but not limited to the college bound.

COURSE TITLE: COLLEGE ALGEBRA
PREREQUISITES: ALGEBRA III
LEVEL: 12

Course Objectives: The purpose of this course is to prepare the student for the regular calculus sequence upon entering college.

Course Content: Real Numbers; Quadratic Equations; Complex Numbers, Other Types of Equations; Inequalities; More on Inequalities; Rectangular Coordinate Systems, Graphs of Equations; Definite of Function; Graphs of Functions; Operations on Functions; Inverse Functions; Graphs of Polynomial Functions of Degree Greater than 2; Properties of Division; Zeros of Polynomials; Complex and Rational Zeros of Polynomials; Rational Functions; Angles, Trigonometric Functions of Angles.

COURSE TITLE: HUMAN BIOLOGY
PREREQUISITES: BIOLOGY 10
LEVEL: 11-12

This course offers a study of human anatomy and physiology, along with exploration of diseases, careers and issues in the health care field. There is also a dissection lab component, where the students get experience in technique of dissection and identification of anatomical systems.

COURSE TITLE: CPR/FA (CPR and First Aid)

PREREQUISITES: BIOLOGY 10

LEVELS: 11-12

MEDICAL TERMINOLOGY/CPR: Students will take CPR and First Aid courses for certification and will study the Minnesota Health Care Core Curriculum course as approved by the MN State College System.

COURSE TITLE: GENETICS/RIVER WATCH (Advanced Biology)

PREREQUISITES: BIOLOGY 10

LEVELS: 11-12

This is a two-part course. The first is genetics, where the students study the history and applications of Mendel's laws of heredity. They will conduct experiments on fruit flies and a population study of genetics in the lab. Included will be research on contemporary issues in genetics. The second is biochemical analysis of a local river. The course is lab based where the students will demonstrate their ability to follow a set of protocols to analyze parameters of a healthy river. Included will be a macro invertebrate study. They will also understand how a watershed contributes to the environment.

COURSE TITLE: Supermilage

PREREQUISITES: NONE

LEVELS: 11-12

(No course description available)

This course is designed around the statewide Supermilage competition. The work of the course is to develop a supermilage vehicle to compete in the supermilage race at Brainerd International Raceway in the spring. The course focuses on the study of friction, design, aerodynamics, and efficiency.