

Edgerton Public School
REGISTRATION GUIDE



2021-2022

Grades 9-12

Edgerton Public School

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INTRODUCTION

This handbook has been prepared to assist you in choosing classes for the upcoming school year. Please read it carefully and make decisions which will best fit you and your future. It is advised that you choose electives that are of interest to you and will fit into your long range plans.

While this handbook contains a great deal of information, it is not meant to be the sole resource used to make your high school plans. You should also discuss your class selections with your parents/guardians, school counselors and teachers.

Be sure to choose classes that will allow you to work to your full intellectual capacity and help you to obtain the knowledge and skills needed to create your future and control your destiny.

ACADEMIC AND GRADUATION REQUIREMENTS

Edgerton Public School feels it is important that students take full advantage of the educational opportunities offered to them. To help insure the maximum opportunity, each student is required to enroll in a minimum of 6 classes each grading period.

- ❖ One credit equals successful completion of a class that meets every day school is in session for the entire year.
- ❖ A half ($\frac{1}{2}$) credit equals successful completion of a class that meets every day for one semester or every other day for the entire year.
- ❖ Seniors must have accumulated 22 academic credits from grades 9-12, by the middle of the fourth quarter, senior year.
- ❖ Seniors must have passed all district required courses 9th-12th grades.
- ❖ Seniors must make up any time from outstanding focus hour responsibilities.
- ❖ Seniors must complete all testing, curriculum and AYP components included in the state and national “No Child Left Behind” legislation in order to receive a diploma. A comprehensive explanation of these requirements and components can be found at the back of the High school Handbook.

Exceptions to the previous academic requirements include:

1. A modification necessary to meet the requirement of an Individual Education Plan (IEP)
2. A change necessary to accommodate the current academic level of the student.

Edgerton Public School Graduation Requirements

The Edgerton School District requires all students (not including foreign exchange students) who walk through graduation exercises to have:

1. Met the testing and attendance requirements of the State of Minnesota and District 581;
2. Earned a minimum of twenty-two (22) credits toward graduation;
3. Passed all district required courses 9th-12th grade;
4. Accumulated twelve junior high credits including all required core junior high courses;
5. Made up time from outstanding focus hour responsibilities.

Each student must have:

4 credits of English/Language Arts

Including: English 9, English 10, English 11 and English 12 (or if eligible: College Literature, College Speech, College Composition or Creative Writing)

3 credits of Math

Including: Geometry, Transitional Algebra and Algebra II

4 credits of Social Studies

Including: Civics, American History, World History/Geography and one additional Social Studies elective

3 credits of Science

Including: Physical Science, Biology and Chemistry

.5 credits in Economics

or complete 1 full credit of Personal Finance I & II,

or complete one full credit of Agricultural Business I & II,

or complete 1 full credit of Accounting

1 credit in Fine Arts

Select from Band, Choir, Visual Arts or Woodworking

.5 credit in Computer Science

Computer Applications

6 Elective credits chosen by the student with 1.5 credits acquired in Physical Education

In addition to the required classes and electives, a student shall participate in the statewide testing standards for Mathematics, Reading and Science.

MN Testing Requirements for Graduation:

MCA II Reading	10th Grade
MCA II Science (Biology)	10th Grade
MCA II Mathematics	11th Grade

PREPARING FOR POST HIGH SCHOOL EDUCATION

Admission requirements to Minnesota Post-Secondary Institutions

The seven state universities generally will admit you as a first-year student if you can answer “yes” to one of the following:

1. Did you graduate in the top half of your high school graduating class?
2. Did you score 21 or higher on the ACT standardized test?
3. Completed the following preparation standards listed below?

4-year State University Requirements

For admission to a state university, it is **recommended** that the student has completed the following high school courses:

English	4 years; including composition, literature and speech
Math	3 years; including two years of algebra and one year of geometry
Science	3 years; including biology and physical science, all with lab experience
Social Studies	3 years; including one year each of geography and U.S. history
Fine Arts	1 year; can include world cultures

2-year Technical and Community College Requirements

The two-year state community and technical colleges have an open admissions policy so enrollment standards are slightly different. Again, the following classes are **recommended** that the student has completed.

English	4 years; including oral and written communication
Math	3 years; including algebra, applied math and/or geometry
Science	3 years; including biology and physical science, all with lab experience
Social Studies	4 years
Electives	Specific to your career plans

For requirements for admission to out-of-state public and private institutions, technical and community colleges, and/or military, please contact your school counselor.

*Reciprocity States: MN graduates may attend public colleges in South Dakota, North Dakota and Wisconsin without paying out of state tuition rates. See admission requirements for each state listed below.

South Dakota

English - 4 years
Math - 3 years
Science - 3 years
Social Studies - 3 years
Fine Arts - 1 credit

North Dakota

English - 4 years
Math - 3 years
Science - 3 years
Social Studies - 3 years
(Requires ACT at all 2 and 4 year institutions)

Wisconsin

English - 4 years
Math - 3 years
Science - 3 years
Social Studies - 3 years
Foreign Language - 2 years (only at UW Madison, LaCrosse and Eau Claire)

Minimum GPA and ACT scores are different in each state. Check with the schools you are interested in. All 4-year institutions require ACT tests.

COURSE INFORMATION

(As of May 2021, subject to change without notice to parents or students)

AGRICULTURE/INDUSTRIAL TECHNOLOGY

EXPLORING AG I

**Grades 9-12
Elective**

**1 Semester
.5 Credit**

Exploring Agriculture I is open to all students, living in town or rural areas with an interest in the vast field of agriculture/agri-business. Considerable time will be studying careers in agriculture. You will be introduced to the FFA, Parliamentary procedures, record keeping, and livestock production and management (including swine, dairy, beef, sheep, and poultry). Several weeks on a natural resource unit. Approximately 1/2 of the semester will be spent in the shop learning oxy acetylene and arc welding, Small Engines, brazing, soldering, plumbing and carpentry. Expect lab fees.

EXPLORING AG II

**Grades 9-12
Elective**

**1 Semester
.5 Credit**

It is desirable but not necessary to have taken Agriculture I prior to this class. We will concentrate on agri-business and marketing. Some topics to be covered include: record keeping systems, financial analysis, cash flows, marketing and buying and selling markets in the futures trades. Half of the semester will be spent in the shop on numerous cold and hot metal projects, and construct particle welding projects. Other units through the year will include parliamentary procedures, natural sciences----soils and conservation, animal nutrition, agriculture processing and meat sciences. Lab fees should be expected.

EXPLORING AG III

**Grades 9-12
Elective**

**1 Semester
.5 Credit**

It is desirable but not necessary to have taken Agriculture 1 or 2 prior to this class. We will concentrate on Plant Science, Soil Science, Agricultural Construction, Farm Wiring, welding, introduction to wood techniques. Half the semester will be devoted to the shop. Students will be allowed to work on personal projects. We will also work on 3-D image printing and CNC Table Router and Robotics. There will be field trips when possible. Lab fees should be expected.

EXPLORING AG IV

**Grades 9-12
Elective**

**1 Semester
.5 Credit**

It is desirable but not necessary to have taken Agriculture 1 or 2 or 3 prior to this class. We will concentrate on Plant Science, Soil Science, Agricultural Construction, Farm Wiring, welding, introduction to wood techniques. Half the semester will be devoted to the shop. Students will be allowed to work on personal projects. We will also work on 3-D image printing and CNC Table Router and Robotics. We will also work on Recordkeeping, S.A.E's. There will be field trips when possible. This will be a continuation of Agricultural 3 class. Lab Fees should be expected.

FARM WIRING AND HOME REPAIR

**Grades 11-12
Elective**

**1 Semester
.5 Credit**

This course is designed to provide the student with basic knowledge and experience in performing basic home repairs centered around electrical. Students will complete a variety of wiring labs, construct personal electrical projects such as a "Shop/ Work light" and learn more about electric motors. This course is designed to instruct students that have either little or no experience to those that have had some experience. There is NO prerequisite for this class. Lab fees should be expected for personal projects.

AG CONSTRUCTION**Grades 11-12
Elective****Semester
.5 Credit**

This course is designed to provide the student with the basic knowledge of all aspects of light wood frame construction including: framing, sheeting, roofing, windows and doors, exterior finish, interior wall finish, floor and ceiling finish. Also included will be a study of material and tools used in construction. A storage shed will be constructed as the main project. If there is not a request for a storage shed, an alternative project will be designed for the students. Each student is required to have a tape measure and safety glasses. Safety glasses may be purchased through the school.

WILDLIFE MANAGEMENT I**Grades 11-12
Elective****Semester
.5 Credit**

Lab fees will be assessed for this course.

Students will study wildlife management to gain an understanding of the ecological, physical and environmental concepts pertaining to wildlife management. Decisions pertaining to how wildlife populations are managed will be studied through lab or hands on lessons. This course is also designed to allow students to develop an appreciation for all that Minnesota and the Midwest has to offer as it relates to forestry, fish & wildlife and outdoor recreation. Students will have the opportunity to expand their own beliefs and values of the environment. In addition, some of the units include White Tailed deer, Wolves, Buffalo, Elk, Fish of Minnesota, orienteering and Forestry to name a few.

SMALL ENGINES**Grades 11-12
Elective****Semester
.5 Credit**

This class is designed for those who have little knowledge of how engines work. We will study the principles of 2 and 4 stroke gasoline engines through classroom and shop work. Engines will be provided for lab work. However during the second half of the semester you will be able to work on your own personal engines once labs have been completed and it has been approved by the instructor.

WELDING AND FABRICATION**Grades 11-12
Elective****Semester
.5 Credit**

This class will be divided into 2 areas. First, through the use of lecture and laboratory exercises students will be introduced to the fundamentals of arc and oxyacetylene welding. Second, students through independent and structured study will be expected to construct projects that demonstrate the student's knowledge and skills learned throughout the class. This class will be 50% lecture and 50% shop. Students should expect lab fees for their projects. This course is intended for the student that would like to learn more about the welding process and improve their mechanical skills. This class would be a good experience for students planning to continue their education at a technical or Community College.

ADVANCED WELDING AND FABRICATION**Grade 12
Elective****Semester
.5 Credit**

This course is designed to build upon Welding and Fabrication. Students will be additionally exposed to sheet metal fabrication, metal bending (both machine and heat). This is a project based class and students should expect to have taken Welding and Fabrication prior.

HORTICULTURE and NURSERY LANDSCAPE**Grades 11-12
Elective****Semester
.5 Credit**

Do you like working outside? Do you enjoy designing and constructing projects? Do you like to work with your hands and are not afraid to get a little dirt on them? Then this is your class! This class combines the concepts of horticulture and the artistic abilities of a landscape designer. You will get the opportunity to plant and raise horticultural crops such as flowers, vegetables, trees and shrubs. You will also learn and design various landscapes plus install some around our school as part of this class. This is a BRAND NEW class so opportunities are limited only to your imagination as you get in on the "ground floor" of these vast Agricultural career areas.

WOODWORKING TECHNIQUES**Grades 9-12
Elective****Semester
.5 Credit**

The purpose of this course is to expose the students to different techniques used in woodworking as well as proper use of different tools. Students will use woodworking machines and hand tools to build projects. Major emphasis will be on learning how to safely operate power machines and the many operations that can be performed with them. Project selection, plan designs, cost calculations, and project production will be a major part of the class.

AG BUSINESS I & II

**Grades 11-12
Elective**

**1st/2nd Semester
.5 Credit/Semester**

It would be desired but not necessary to have taken Agriculture classes prior to taking this class. This course will emphasize the basic role that agri-business plays on the local, state, national and global economy. Some of the topics will include business accounting using a sample agri-business operation, analyzing cash flows, financial statements, market analysis, commodity future trading, family living and budgeting. The study of insurance will also be included: workman's comp, liability, property, life, and health. Use of guest speakers, field trips, and FFA career development events will be used as classroom/lab enrichments.

SMALL ANIMAL and COMPANION ANIMAL

**Grades 9-12
Elective**

**Semester
.5 Credit**

This course will investigate scientific concepts relating to the care of companion animals. Students will study the nutrition, safety, training, health, and general care of companion animals. The course will focus on dogs, cats, rabbits, birds, reptiles, guinea pigs, rodents, and fish. Laboratory activities will provide opportunities for problem-solving through practical applications to learn scientific concepts. Application to current issues will also be explored. This class is great for any student who owns a pet or is interested in a career with companion animals.

LARGE ANIMAL SCIENCE

**Grade 12
Elective**

**Semester
.5 Credit**

This course will investigate scientific concepts relating to the biology of domestic animals (horses, cattle, sheep, poultry and swine). Specific topics will include taxonomy and classification, cell structure and function, biological systems, anatomy and physiology, nutrition, genetics, reproduction, distribution and adaptation, selection and evaluation. Laboratory activities will provide opportunities for problem solving through practical application to learn scientific concepts. Application to current issues will be explored. Leadership and Career Development opportunities for students through the FFA (an intra-curricular student group) will be presented. This class is great for any student that owns a pet or is interested in a career with companion animals.

ON-THE-JOB TRAINING

**Grade 12
Elective**

**Year Long
1 Credit**

On-The-Job Training is open to students who have generally completed an agriculture class and can be enrolled in additional Ag classes. The student-trainee will have the opportunity to receive "hands-on" training in an area of their interest while working in an agri-business or farm operation.

Students will be released from school for the last period of the school day. Each student will need to work a minimum of 10 hours per week at his or her training station. Generally, OJT will be for the entire school year; however, the length can be adjusted with consent of the employer and supervising teacher. The student is also responsible for securing a job that has been approved before the start of the school year.

ART COURSES

INTRODUCTION TO ART

**Grades 9-12
Elective**

**Semester
.5 Credit**

This class will learn and apply Art Elements and Principles of Design (the foundations), while creating art projects in a variety of mediums (chalk, charcoal, pencil, paint, pastels) and techniques. We will also be learning how to critique our work, in an effort to grow as an artist, as well as how to critique other artwork, while gaining an appreciation for the artist, their culture and their environment. These foundations/basics are the springboard for all of Art.

ART APPRECIATION [05151]**Grades 9-12
Elective****Semester
.5 Credit**

**Prerequisite: must have at least one prior art class

This class will study a variety of Art Styles and Movements, learning to understand Art by approaching it from a variety of directions, as well as different points of view. Analyzing the impact of historical, cultural and/or political context on the style/artist/movement and exploring the place and significance it has on visual art in society.

DRAWING [05156]**Grades 11-12
Elective****Semester
.5 Credit**

**Prerequisite: Intro to Art recommended

**Each student must have a sketchbook

This class will apply Art Elements and Principles of Design to the drawing process. We will focus on the fundamentals of drawing: elements of line, composition, proportion, spatial relationships, perspective, volume, light and shadow, value and texture. We will be using mediums such as pencil, crayon, charcoal, chalk and pastels to complete exercises and projects. As we create, we will work on critiquing, how to improve, and find our own style.

PAINTING [05157]**Grades 11-12
Elective****Semester
.5 Credit**

**Prerequisite: Intro to Art recommended

**Each student must have a sketchbook

This class will apply Art Elements and Principles of Design to the painting processes. We will focus on the fundamentals: elements of line, composition, proportion, spatial relationships, perspective, volume, light and shadow, value and texture. We will be using a number of mediums and painting techniques to complete exercises and projects. We will work on critiquing our own and others artwork, as well as formulating our own Artist Statement.

POTTERY**Grades 11-12
Elective****Semester
.5 Credit**

**Prerequisite: Intro to Art recommended

**Each student must have a sketchbook

This class will apply the Elements of Art and the Principles of Design to working with clay. We will learn a variety of techniques for hand building, slab and wheel throwing, as well as several techniques for decorating what was created, while learning about the history, cultural impacts and artists who work in the medium.

SCULPTURE**Grades 11-12
Elective****Semester
.5 Credit**

**Prerequisite: Intro to Art recommended

**Each student must have a sketchbook

This class introduces students to the Elements, Fundamentals and Techniques of Sculpture. We will explore 3-Dimensional creativity while studying the history and famous artists in Sculpture, as well as the impacts of environment, culture, society.

SENIOR ART**Grade 12
Elective****Semester
.5 Credit**

This class will spend time exploring with the student's preferred medium, where possible, to express themselves in their own style while formulating a personal Artist Statement and investigating the artwork of famous artists. It will study the impact of culture, society, environment, etc. on art, that of their own and other artists. Students must be self-motivated and able to work independently.

ART PORTFOLIO [05170]**Grade 12
Elective****Semester
.5 Credit**

**Prerequisite: Intro to Art recommended

**Each student must have a sketchbook

This class will apply Art Elements and Principles of Design to various art processes. We will focus on the fundamentals while using a variety of mediums to produce projects for the student's portfolio for future application in each student's personal style, to meet the requirements for their next step, be it a job or further schooling. Personalized Artist Statements, a Website containing Portfolio contents, and the projects of the Portfolio will be completed this semester.

BUSINESS AND COMPUTER TECHNOLOGY

PERSONAL FINANCE MANAGEMENT I & II [12108]

Grades 9-12
Elective

1st/2nd Semester
.5 Credit/Semester

Courses examine personal/family resource management. Topics may include, but are not limited to, earning a living, budgeting, saving and investing, buying goods and services, using credit and protecting against risk. They may include financial problem solving and decision-making.

COMPUTER APPLICATIONS [10004]

Grades 10-12
Required

Semester
.5 Credit

Courses support students in acquiring knowledge of and experience in the proper and efficient use of previously written software packages. These courses explore a wide range of applications, including, but not limited to, word-processing, spreadsheet, graphics, and database programs, and will cover the use of electronic and desktop publishing.

ACCOUNTING I [12104]

Grade 12
Elective

Semester
.5 Credit/Semester

This accounting class is designed for students to use in their personal lives as well as those who might be interested in pursuing a career in business. Some of the topics that are covered are transaction analysis, journalizing, debits and credits, accounts receivable. The students will also spend approximately 4 weeks on Federal and State income tax policies and procedures. They will be working on personal finances and use computer software to supplement manual accounting procedures.

YEARBOOK

Grades 10-12
Elective

Year Long
1 Credit

Students will gain skills in page design, publishing techniques, editing and photography while producing and creating the school yearbook recording school memories and events. There is an emphasis on photography and design skills in this class. Participants gain useful real world skills in time management, teamwork and design principles.

COMMUNICATION AND ENGLISH

ENGLISH/LANGUAGE ARTS I [010001]

Grade 9
Required

Year Long
1 Credit

Courses build upon students' prior knowledge of grammar, vocabulary, word usage, and the mechanics of writing and usually include the four aspects of language-reading, writing, speaking, and listening. Typically, these courses introduce and define various genres of literature, with writing exercises often linked to reading selections.

ENGLISH/LANGUAGE ARTS II [010002]

Grade 10
Required

Year Long
1 Credit

Courses usually offer a balanced focus on composition and literature. Typically, students write persuasive, critical, and creative multi-paragraph compositions. Students study various literary genres to improve reading rate and comprehension level, develop skills to determine an author's intent and theme and recognize the techniques used by an author to deliver his or her message.

ENGLISH/LANGUAGE ARTS III [010003]**Grade 11**
Required*Year Long**
1 Credit

*Required unless taking college level courses for English credit.

Courses continue to develop students' writing skills by emphasizing clear, logical writing patterns, word choice and usage in essays and research papers. Students continue to read works of literature, which are often the basis for the writing assignments. Literary conventions and stylistic devices may receive greater emphasis than in previous courses.

ENGLISH/LANGUAGE ARTS IV [010004]**Grade 12**
Required*Year Long**
1 Credit

*Required unless taking college level courses for English credit.

This course, intended for 12th grade students, will be split into two separate portions. Semester One is focused on the art of writing compositions and essays. The students learn the scholarly art of entering a conversation by research and critical thinking. Throughout the semester, students study one major topic, and seemingly become experts on it, as they prepare, write, and edit four major compositions, including: an annotated bibliography, informative essay, opposing sides essay, persuasive essay, and a reflection on their writing and learning throughout the semester. Semester Two is focused on the essentials of speaking and listening. Students learn how to analyze speeches, while becoming a better listener, a critical thinker, and writing speeches for their own recitation and performance. Students will complete several styles of speeches including informational, entertainment, and persuasive.

CREATIVE WRITING**Grades 11-12**
Elective**Semester**
.5 Credit

Creative Writing is an elective for students in 11th and 12th grade. This course is offered only in the Spring. Students will learn how to write creatively, with passion and purpose. Writing will be studied and analyzed, as well as various genres of writing will be practiced, including poetry, fiction, memoir, and screenplay. Students will write and share their writing with classmates. Throughout the semester, students will compile their creative writing portfolio of finished work.

MATHEMATICS

GEOMETRY [02072]**Grade 9**
Required**Year Long**
1 Credit

**Prerequisite: Algebra I

Courses emphasize an abstract, formal approach to the study of geometry and typically include topics such as properties of plane and solid figures; deductive methods of reasoning and use of logic; geometry as an axiomatic system including the study of postulates, theorems, and formal proofs; concepts of congruence, similarity, parallelism, perpendicularity, and proportion; and rules of angle measurement in triangles.

TRANSITION ALGEBRA [02055]**Grade 10**
Required**Year Long**
1 Credit

**Prerequisite: Algebra I and Geometry

Courses review and extend algebra and geometry concepts for students who have already taken Algebra 1 and Geometry. These courses include a review of such topics as properties and operations of real numbers; evaluation of rational algebraic expressions; solutions and graphs of first degree equations and inequalities; translation of word problems into equations; operations with and factoring of polynomials; simple quadratics; properties of plane and solid figures; rules of congruence and similarity; coordinate geometry including lines, segments, and circles in the coordinate plane; and angle measurement in triangles, including trigonometric ratios.

ALGEBRA II [02056]**Grade 11**
Required**Year Long**
1 Credit

****Prerequisite:** Transition Algebra

Course topics typically include field properties and theorems; set theory; operations with rational and irrational expressions; factoring of rational expressions; in-depth study of linear equations and inequalities; quadratic equations; solving systems of linear and quadratic equations; graphing of constant, linear, and quadratic equations; properties of higher degree equations; and operations with rational and irrational exponents.

APPLIED GEOMETRY [02071]

Grade 10
***Required**

Year Long
1 Credit

*Administration consent required.
Same as Geometry but is only for special education students.

APPLIED ALGEBRA [02053]

Grade 11
***Required**

Year Long
1 Credit

*Administration consent required.
Same as Geometry but is only for special education students.

MUSIC

SENIOR HIGH BAND [05101]

Grade 9-12
Elective

Year Long
.25 Credit/Semester

The course develops students' technique for playing brass, woodwind, and percussion instruments and covers a variety of band literature styles, primarily for concert performance. Senior high band is offered every day during the music hour. Band students will participate in three concerts during the year in addition to pep band at athletic events and the Dutch festival parade. Students will be expected to participate in large group contest. Band is one course that would fulfill the graduation fine arts requirement.

SENIOR HIGH CHOIR [05110]

Grade 9-12
Elective

Year Long
.25 Credit/Semester

The course develops students' vocal skills and techniques to sing a variety of choral literature styles in the context of larger choral groups for men's and women's voices and may include instrumental accompaniment. Choir meets every day during the music hours and vocal lessons will be available at other scheduled times. Students will be expected to participate in large group contest and in concerts that will be presented three times a year. Choir is one course that would fulfill the graduation fine arts requirement.

PHYSICAL EDUCATION AND HEALTH

LIFETIME FITNESS EDUCATION I [08016]

Grade 9
Required

Year Long
1 Credit

This course emphasizes knowledge and skills needed for a lifetime of physical activity. Content will include related topics such as nutrition, stress management, and consumer issues. Students will develop and implement personal fitness plans. Students will also learn the prevention and treatment of athletic injuries. **The focus of this course is physical fitness. Students will take this parallel with P.E. 9.**

LIFETIME FITNESS EDUCATION II [08016]

Grade 10
Required

Semester
.5 Credit

This course emphasizes knowledge and skills needed for a lifetime of physical activity. Content will include related topics such as nutrition, stress management, and consumer issues. Students will develop and implement personal fitness plans. Students will also learn the prevention and treatment of athletic injuries. **The focus of this course is physical fitness. Students will take this parallel with P.E. 10.**

SCIENCE

INTEGRATED SCIENCE/PHYSICAL SCIENCE [03201]

**Grade 9
Required**

**Year Long
1 Credit**

This course content varies but draws upon the principles of several scientific specialties-earth science, physical science, chemistry, and physics-and organizes the material into multiple thematic units. Units may be developed around themes such as systems, models, energy, patterns, or change and constancy. This course uses appropriate aspects from each science specialty to investigate applications of the theme.

BIOLOGY [03051]

**Grade 10
Required**

**Year Long
1 Credit**

Courses are designed to provide information regarding the fundamental concepts of life and life processes. These courses include, but are not limited to, topics such as cell structure, function and cell processes, genetics, taxonomy and animal physiology, ecological concepts.

CHEMISTRY [03101]

**Grade 11
*Required**

**Year Long
1 Credit**

*It is recommended that you have received an A or B in both biology and algebra to register for this course.

Courses involve the composition, properties and reactions of substances. They typically explore the behaviors of solids, liquids, and gases; acid/base and oxidation/reduction; and atomic structure. Chemical formulas, equations and nuclear reactions are also studied. This course will prepare students for college chemistry.

CONCEPTUAL CHEMISTRY [03105]

**Grade 11
*Required**

**Year Long
1 Credit**

*Placement is based on math capabilities.

This course is designed for students who desire a basic understanding of chemical concepts. Courses involve the composition, properties and reactions of substances, chemical formulas and equations. They typically explore the behaviors of solids, liquids, and gases; acid/base and oxidation/reduction; and atomic structure. An effort will be made to connect what is learned to real-life situations. Conceptual chemistry students study many of the same topics as chemistry but there is a reduction in the complexity of the mathematics involved.

BIOTECHNOLOGY [03060]

**Grades 11-12
Elective**

**Semester
.5 Credit**

In this course students will learn the basics of technology-based biology, focus on human cloning, bringing extinct animals back to life, drugs, vaccinations and legal, ethical and moral issues related to this topic.

HUMAN ANATOMY GENETICS [03054]

**Grades 11-12
Elective**

**Year Long
1 Credit**

Courses examine the human body and biological system. Students study such topics as anatomical terminology, cells, and tissues and typically explore functional systems such as skeletal, muscular, circulatory, respiratory, digestive, reproductive, and nervous systems.

MEDICAL TERMINOLOGY [14154]

**Grades 11-12
Elective**

**Semester
.5 Credit**

Course supports students in identifying medical terms by analyzing their components. This course emphasizes defining medical prefixes, root words, suffixes, and abbreviations as well as developing both oral and written skills to communicate within the healthcare profession.

HUMAN IMPACTS ON THE ENVIRONMENT

**Grades 11-12
Elective**

**First Semester
.5 Credit**

This course focuses on human impacts on the environment, how in turn humans are impacted, and what can be done about it. This is not a class about ecology per se, but you are expected to be familiar with ecological terms and principles. We will examine how human activities affect ecological and environmental processes, considering both biotic and abiotic components. We will look at the importance of biodiversity, conservation, aquatic and terrestrial pollution, environmental laws and regulations, human and ecological “health”, human population growth, renewable and nonrenewable resources and the concept of sustainability.

FORENSICS [03162]

**Grades 11-12
Elective**

**Second Semester
.5 Credit**

Course provides an understanding of the scientific principles involved in criminal investigations, including the forensic techniques and processes necessary to collect, identify and analyze physical evidence. Topics of study typically include, but are not limited to, blood spatter, trauma direction, ballistics and tool marking as well as crime scene documentation.

SOCIAL STUDIES

CIVICS [04161]

**Grade 9
Required**

**Year Long
1 Credit**

The Declaration of Independence, the Constitution and the Bill of Rights as well as the inter-relationship of government, society, and the economy are introduced. Branches of federal, state and local government, political parties, interest groups, as well as contemporary issues are all detailed in this course. The rights, responsibilities and the duties of citizens to the democratic process, along with career opportunities in government services are featured.

UNITED STATES HISTORY [04101]

**Grade 10
Required**

**Year Long
1 Credit**

Students will continue their study of American history, culture, politics, economics, and thought changes. Major events in the nation’s history such as the Civil War and Reconstruction, Immigration and the New Deal are looked at through documentary sources and conflicting historical perspectives. Events such as the World Wars, the origins of the Cold War and Cold War conflicts will be looked upon. The course examines the experiences of Americans and various races and ethnicities, focusing in some detail on the Native Americans and African Americans from slavery through the civil rights movement, and the immigrant experience. The challenging role of women in the American society is explored throughout the course. The emergence of the national government’s changing role in people’s lives will also be examined. Students will be able to illustrate the influence of diverse beliefs on a theme or event that was significant to the development of the United States. Students will be able to think for themselves regarding important historical topics and be able to demonstrate that through testing and writing.

WORLD HISTORY AND GEOGRAPHY [04052]

**Grade 11
Required**

**Year Long
1 Credit**

Courses provide students with an overview of the history of human society from early civilization to the contemporary period, examining political, economic, social, religious, military, scientific, and cultural developments. This course will include an overview of world geography. Topics typically include the physical environment; the political landscape; the relationship between people and the land; economic production and development; and the movement of people, goods, and ideas.

CURRENT ISSUES [04064]

**Grades 9-12
Elective**

**Year Long
1 Credit**

This elective course is designed to help students become aware of and understand the events that shape our world, nation, state, and local area. This will be done through reading of news magazines, videos, lectures, discussion, research, and personal experience.

OTHER OPPORTUNITIES

TEACHER ASSISTANT/FACULTY ASSISTANT

**Grades 11-12
Elective**

**Semester
Credit-None**

Teacher Assistant Position may be taken by Seniors for a year long or semester long class. Juniors may take this class only in the 2nd semester. Students must fill out an application, have a minimum of a 2.5 GPA and agree to conditions that are outlined in the application. Please see Mr. Gilbertson for application material. Students do not receive credit for this position but it will count towards one of their required 6 classes.

COLLEGE IN THE SCHOOL

Edgerton Public offers concurrent enrollment courses through MN West Community and Technical College, known as REACH courses, and through Southwest Minnesota State University, known as College Now courses. These college courses are taught by Edgerton Public School staff on our campus and allow our students to earn required credits toward graduation as well as giving them an opportunity to acquire college credits while still in high school. Concurrent enrollment courses are at no cost to the family. The concurrent courses offered at the high school are listed below. Students enrolled in these courses must be in the top half of the senior class or top third of the junior class.

**Starred classes are for seniors only.

****COLLEGE COMPUTER SCIENCE [105]**

**Grade 12
Elective**

**2nd Semester Only
.5 Credit
[3 College Credits]**

COMP 105 Introduction to Computers. This course will be an overview of mainframe and personal computers. Topics include: application software, the Internet, hardware components and peripheral devices, and data processing.

****COLLEGE ALGEBRA**

**Grade 12
Elective**

**First Semester Only
.5 Credit
[3 College Credits]**

MATH 1111. Topics include: equations and inequalities, functions, graphs, polynomials, systems of equations, matrices, and determinants. The required preparation is successful completion of Algebra II.

PRE CALCULUS

**Grades 12
Elective**

**Second Semester Only
.5 Credit
[4 College Credits]**

Prerequisite: Math 1111 or placement by exam.

MATH 1113. Reviews the concepts and functions of college algebra and then extends those ideas to trigonometry and analytic geometry. Exponential, logarithmic, and polynomial functions are emphasized in the review. The course explores rectangular coordinates and angles, solutions of right triangles, unit circles, radian measure, trigonometric functions and their inverse, trigonometric graphs, trigonometric equations and identities, complex numbers, conic sections, and other analytic geometry topics such as polar coordinates, parametric equations, sums and geometric series and vectors.

COLLEGE BIOLOGY

**Grades 11-12
Elective**

**Year Long
.5 Credit
[4 College Credits]**

BIOL 1110 Principles of Biology. This college level class is intended for the investigation of biology with special emphasis on the composition of living things and living systems, the chemistry of living systems, natural selection, cell biology, metabolism emphasizing bioenergetics and biosynthesis, the cell cycle, and genetics.

WESTERN CIVILIZATION I - up to 1500

**Grades 11-12
Elective**

**First Semester Only
.5 Credit
[3 College Credits]**

HIST 1111. This college level course will provide students a survey of the rise and development of western institutions, ideas, and culture, from Greece and Rome, to the development of European nations and their subsequent expansion. The course will emphasize student reading, writing, discussion, critical thinking, problem solving, and active learning. By the end of this course students will be able to differentiate between fact and opinion and inferences, to compare and contrast opposing viewpoints and find merit in both, and to organize thoughts clearly in written form.

WESTERN CIVILIZATION II – from 1500 to Present

**Grades 11-12
Elective**

**Second Semester Only
.5 Credit
[3 College Credits]**

HIST 1112. This college level course will introduce students to the most important events, individuals, and ideas in the history of Western Civilization since the Renaissance—a period usually referred to as the “modern age.” Over the semester we will explore the development of what is often called “modernity”. We will look at the evolution of western civilization in the past 500 years. We will specifically look at Renaissance, enlightenment, science, industrialization, revolution, capitalism, modernism, fascism, communism, and world war. The course will emphasize student reading, writing, discussion, critical thinking, problem solving, and active learning. By the end of this course students will be able to differentiate between fact and opinion and inferences, to compare and contrast opposing viewpoints and find merit in both, and to organize thoughts clearly in written form.

COLLEGE LITERATURE

**Grades 11-12
Elective**

**First Semester Only
.5 Credit
[3 College Credits]**

LIT 100 Literature and Human Diversity. This course is for students in 11th and 12th grade, who have been admitted to SMSU and meet all the requirements of College Now courses. In this class, students will study the diverse cultures in American Literature as well as other parts of the world. Literature will come from various genres, including: memoir, poetry, short fiction, essays, and novels. Students will use the literature to study their own viewpoints and experiences and compare and contrast this with the experiences of people from various cultures.

COLLEGE COMPOSITION I

**Grades 11-12
Elective**

**First Semester Only
.5 Credit
[3 College Credits]**

ENG 151 Academic Writing. This course follows the College Board’s suggested curriculum designed to parallel college-level English courses and exposes students to prose written in a variety of periods, disciplines and rhetorical contexts. They emphasize the interaction of the author’s purpose, intended audience and content. Students write on a variety of subjects for various purposes.

COLLEGE SPEECH

**Grades 11-12
Elective**

**Second Semester Only
.5 Credit
[3 College Credits]**

COMM 110 Essentials of Speaking and Listening. Speech Communications introduces students to the principles of and practical skills for public speaking and listening, with an emphasis on understanding and putting into practice all major aspects of public speaking preparation, presentation, and constructive critique. The course will require students to organize, prepare, and deliver a variety of speeches as well as observe and critique the work of their peers.

COLLEGE PSYCHOLOGY

**Grades 11-12
Elective**

**First Semester Only
.5 Credit**

[3 College Credits]

PSYC 101 - General Psychology. The students will study human behavior and mental processes including how humans observe, describe, explain and predict human behavior. Human development and its effect on learning, thinking, personality and social relationships are examined. The course will also examine sub areas of psychology such as neurology, the environment, situation and experience, abnormal behavior and the self. Attention will be given to key historical developments in psychology and the people whose innovations changed thought processes in psychology.

COLLEGE INTRODUCTION TO EDUCATION

**Grades 11-12
Elective**

**Second Semester Only
.5 Credit
[3 College Credits]**

EDU 101 - Introduction to Education. An introduction to early childhood, elementary, and secondary education for students interested in teaching. The course includes the study of historical and social foundations of education topics such as inquiry into the teaching and learning process, schools in a multicultural and diverse society, the profession of teaching principles of cooperative group learning and cultural differences, communication, and stereotyping. Fifteen hours of field experience is required.

CARPENTRY AND HVAC

**Grade 12
Elective**

**Year Long
1 Credit
[3 College Credits]**

This class is taken off-site through MN West. CARPENTRY provides students with basic knowledge of residential and commercial construction and studies the concept of Green Building. HVAC concentrates on plumbing and heating systems and the installation of fixtures, pipe threading, equipment and tools used in the industry.

PSEO

Post Secondary Enrollment Options (PSEO) is a program that allows 10th, 11th and 12th grade students to earn college credit while still in high school, through enrollment in and successful completion of college-level courses. These courses are offered online through MN West. Postsecondary institutions are not allowed to charge PSEO students for tuition, textbooks or support services. Students may be charged for equipment that becomes their property when the course or program is completed.

CREDIT CHECKLIST

English/LangArts: (4 Credits)

Grade 9

_____ English 9 (1 credit)

Grade 10

_____ English 10 (1 credit)

Grade 11-12

(Pick 2 additional credits from the options below)

_____ English 11 (1 credit)

_____ English 12 (1 credit)

_____ Creative Writing (½ credit)

_____ *College Literature (½ credit)

_____ *College Composition (½ credit)

_____ *College Speech (½ credit)

Total _____/4 English Credits

Math: (3 Credits)

Grade 9

_____ Geometry (1 credit)

Grade 10

_____ Transition Algebra (1 credit)

Grade 11

_____ Algebra II (1 credit)

Total _____/3 Math Credits

Science: (3 Credits)

Grade 9

_____ Physical Science (1 credit)

Grade 10

_____ Biology (1 credit)

Grade 11

_____ Chemistry (1 credit)

Total _____/3 Science Credits

Fine Arts: (1 credit)

_____ Band or Choir (.25 credit/semester)

_____ Any Visual Arts classes (½ credit)

_____ Woodworking (½ credit)

Total _____/1 Fine Arts Credit

Social Studies: (4 Credits)

Grade 9

_____ Civics (1 credit)

Grade 10

_____ American History (1 credit)

Grade 11

_____ World History/Geography (1 credit)

Grade 12

(Pick 1 additional credit from the options below)

_____ Current Issues (1 credit)

_____ *Intro to EDU (½ credit)

_____ *College Western Civ I (½ credit)

_____ *College Western Civ II (½ credit)

_____ *College Psychology (½ credit)

Total _____/4 Social Studies Credits

Economics: (½ credit)

(or 1 full credit of the following)

_____ Personal Finance (1 credit)

_____ Agri Business I & II (1 credit)

_____ Accounting (1 credit)

Total _____/.5 Economics Credits

Computer Science: (½ credit)

Grade 9 or 10

_____ Computer Apps (½ credit)

Total _____/.5 Computer Science Credits

Electives: (6 credits)

Grade 9 _____ PE (1 credit)

Grade 10 _____ PE (½ credit)

Grades 9-12

_____ Electives

_____ Electives

_____ Electives

_____ Electives

_____ Electives

Total _____/6 Elective Credit

*College classes are only for those students who meet the necessary requirements.