

Crandon High School

COURSE DESCRIPTION BOOK 2014-2015



It is the policy of the School District of Crandon that no person be denied admission to any public school in this district participation in, be denied the benefits of, or be discriminated against in any curricular, extracurricular pupil service, recreational, or other program or activity because of the person's sex, race, color, national origin, ancestry, creed, pregnancy, marital or parental status, sexual orientation or physical, mental, emotional or learning disability or handicap as required by S. 118.13, Wis. Stat. This policy also prohibits discrimination as defined by Title IX of the Educational Amendments of 1972 (sex), Title VI of the Civil Rights Act of 1965 (race and national origin), and Section 504 of the Rehabilitation Act of 1973.

Updated March 24, 2014

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GENERAL INFORMATION

I. Grade Levels

Crandon High School serves grades 9, 10, 11, and 12. Credits for graduation are earned in grades 9, 10, 11, and 12. Health credit required for graduation is earned in grade 8.

II. School Year

The school year consists of two semesters. Each semester is divided into two quarters. There are seven periods per day.

III. Scheduling

Scheduling for both semesters is done during the second semester for the following year. A maximum of seven classes may be taken per semester at the high school. Pursuant to WI Statute 118.13 (1), students may not be excused for work during school hours except for those on credit work programs. Credit for Youth Option classes are awarded per state requirements.

IV. Courses

All courses are given the credit value listed in the description. Usually .5 credit is granted after satisfactory completion of one semester of work, unless otherwise noted. Up to 7 credits per year may be earned on a regular schedule.

Pass/Fail grades are offered on some courses such as tutoring, aides, work study, etc. A student may take 2 semesters (1 yr.) of pass/fail courses during their four years of high school to earn 1 credit. Additional courses of Pass/Fail grade may be taken but no credit will be given. Credits earned in the Upward Bound program are not included in the 1 credit limit.

V. Student Evaluation

Letter grades are used to evaluate student work in all subjects. Exceptions to this will be on a case by case basis. Quarter and semester grades are placed on report cards. Semester grades are placed on the permanent record and are used for class ranking purposes.

A	Excellent
B	Above Average
C	Average
D	Below Average
F	Failure
W	Withdrawal
INC	Incomplete
IP	In Progress
P	Pass

23 credits are needed for graduation, 15.5 required plus 7.5 elective credits.

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CREDIT REQUIREMENTS-23 credits required

Physical Education-1.5 credits

High School Phy. Ed.

Weightlifting

Three semester courses-1 each year Freshman, Sophomore, Junior

English-4 credits

English 9

English 10

English 11

One credit from the following: World Lit, Communications/Creative Writing, or Contemporary Lit.

Social Studies-4 credits

World Studies

Civics

American History

Economics & Sociology

Mathematics-3 credits

Algebra

Geometry

Algebra II or Integrated Math IV

Science-3 credits

Physical Science

Biology

Third Year of Science (Chemistry, Environmental Science, Earth & Space)

Honors Graduate Criteria

English 4 credits

Science 4 credits

Social Studies 4 credits

Mathematics** 4 credits

25 Total Credits

Must have a cumulative GPA of 3.0 or higher

National Honor Society Criteria

Consideration for selection requires meeting character, service, and leadership standards.

English 4 credits

Science 4 credits

Social Studies 4 credits

Mathematics** 4 credits

25 Total Credits

Must have a cumulative GPA of 3.25 or higher

**Math credits must include Algebra, Geometry, Algebra II and Trigonometry/Pre-Calculus.

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VI. Other Agencies

Classes offered by other educational agencies (Nicolet Area Technical College, Upward Bound, etc.) are not listed in this handbook since they are not offered by this school district.

VII. Transfer credits from other school districts

Added to the transcript on an equivalent basis.

VIII. Independent Study

Independent study is only open to students of senior status and others under special consideration or by teacher approval.

The student must receive approval of both the teacher and the principal.

Students will not be allowed to take Independent Study during any of their regularly scheduled classes (i.e., cannot take an Independent Study class first hour if they are already scheduled in another class the first hour).

The teacher providing Independent Study will be responsible to provide 90 hours of work/class per semester credit. A teacher providing Independent Study is doing so on a voluntary basis.

Classes taken through other educational agencies (with the exception of those taken through the Youth Options Program) must be pre-approved by the principal. A form for course pre-approval can be obtained in the guidance office. Classes that have been pre-approved will be added to the student transcript for proper credit. See the school counselor for more details.

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ART

*All courses open to grades 9-12. Instructor strongly recommends Beginning Drawing to any freshman desiring an art class.

702	<u>Beginning Drawing</u>	1 Semester	.5 Credit
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Open to all high school students.

Prerequisites: None

Course Fee: \$6.00 (sketch book required)

What you will learn in this course:

This course is divided into two nine segments. The first nine weeks is developing skills to work on a draw as an adult artist. The second nine weeks is used to put these developing skills to work on a self-portrait in charcoal.

How you will learn in this course:

Students will learn through lecture, video and exercises. The second nine weeks is a studio setting.

Why this course is important:

All students should take this course as means to develop visual thinking skills needed in today's visually orientated society. This course is a must have basic course for art students.

703	<u>Art Metals</u>	1 Semester	.5 Credit
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Open to all high school students.

Prerequisites: None

Course fee: \$6.00

What you will learn in this class:

Students will put their creative ideas into semi-precious metal. The use of basic jewelry tools will be covered as well as copper enameling. Students will create a name medallion, various enameling projects and a bracelet.

How you will learn in this course: Students will learn by lecture, demonstration, and investigation via media resources. This is a studio work course and students will have the majority of time actually working in the medium of semi-precious metal.

Why this class is important:

This course is an important three dimensional thinking skills course. Students will develop skills in putting ideas into working projects. This is a good course for developing production skills. This is a good college prep class for students seeking a career in the visual arts.

705	<u>Painting</u>	1 Semester	.5 Credit
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Open to all high school students.

Prerequisites: Beginning Drawing

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Course Fee: \$6.00

What you will learn in this course:

This course can be viewed as a continuation of Beginning Drawing, adding the art element of color to student work. Painting students will be immersed in color theory. Color theory is then put into practice creating two acrylic-on-canvas paintings.

How you will learn in this course:

Students will learn through lecture and projects. This is a studio art class.

Why this course is important:

This course is an important to enhance two dimensional visual thinking skills and confidence in producing finished art work. This course is a must for students thinking of a career in the creative arts.

706	Ceramics I	1 Semester	.5 Credit
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Prerequisites: None

Open to all high school students.

Course Fee: \$6.00

What you will learn in this course:

Students will create pottery in a studio art setting. Ceramics I students will be versed in pinch, slab, coil and sculptural ceramic construction methods. Students will have a working knowledge of staining, painting, under-glazing for finishing their ware.

How you were learn in this course:

This is studio art class. Lectures, demonstrations and videos will be utilized.

Why this course is important:

This course is important to artist and non-artist alike as a means of planning and producing three dimensional objects. This course is a must for three dimensional thinking skills.

707	Ceramics II	1 Semester	.5 Credit
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Prerequisite: Ceramics I with a grade of B or higher and instructor consent.

Open to all high school students.

Course Fee: \$6.00, plus cost of clay (approx. \$20.00)

What you will learn in this course:

Students will learn the step by step process of forming functional pottery on the potter's wheel. Student assignments are the throwing and finishing of six cylinders, six bowls, and a set of four canisters with lids. Advanced glaze methods are covered. Students will load and fire an electric kiln.

How you will learn in this course:

Students will learn from lecture, research, video and demonstration to create both functional and non-functional finish ceramic ware. This is a studio art class.

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Why this course is important:

This course is important for development of three dimensional thinking skills as well as college prep for students.

709	Drawing II	1 Semester	.5 Credit
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Open to all high school students.

Prerequisites: An A or B grade in Beginning Drawing

Course fee: \$6.00

What you will learn in this course:

A continuation of Beginning Drawing, students in Drawing Two will learn the proper drawing techniques to draw the human figure. Students will explore different drawing media, including oil pastels, pastels and chalk.

How you will learn in this course:

Drawing II is a studio art class, students will learn from demonstration, drawing exercises and the production of finished art work.

Why is this class important:

Students will develop maturity and confidence with their drawing skills, and in the development of finished, displayable art work. This is a must have course for students interested in the visual arts as a career.

711	Native American Crafts	1 Semester	.5 Credit
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Open to all high school students.

Prerequisites: None

Course fee: \$6.00

What you will learn in this course:

Native American Crafts is a bead working class. Students will create beaded rings, bracelets, a daisy chain, a dream catcher, and an applique tobacco pouch.

How you will learn in this course:

Native Crafts is a studio art class. Demonstration and handout instructions will be given for each project.

Why this class is important:

Native Crafts will strengthen pattern recognition and production methods in students. Native crafts will develop cultural pride and understanding of traditional Native art work.

712	Independent Art	1 Semester	.5 Credit
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Offered to the serious artist wishing to pursue a medium beyond what is offered in the regular schedule. One must have a minimum of two (2) credits in art, including an Art Appreciation class, be self motivated and gravitating towards a career in art to be

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considered for this class. Teacher approval and a contract are required.

713	Art Appreciation 1 (Offered Odd Years)	1 Semester	.5 Credit
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Open to all high school students.

Prerequisites: None

Course fee: \$6.00

Note: Art Appreciation I and Art Appreciation 2 are two separate classes that DO NOT need to be taken in order.

What you will learn from this class:

Students will gain an appreciation for the visual arts through its history. Art Appreciation I will describe the history of mankind's art with emphasis on the AP Prehistoric to the Renaissance. Students will be able to identify and understand art work from these periods.

How you will learn in this course:

Each period is covered by lecture, video, internet research and a studio (hands on) project.

Why this class is important:

Art history is the history of mankind's soul. To understand art history is to enrich one's time on earth. A must have class for every student.

715	Art Appreciation 2 (Offered Even Years)	1 Semester	.5 Credit
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Open to all high school students.

Prerequisites: None

Course fee: \$6.00

Note: Art Appreciation I and Art Appreciation II are two separate courses that DO NOT need to be taken in order.

This course description is the same as Art Appreciation 1, with an emphasis on art from the Renaissance to the Present.

ENGLISH

Four credits of English are required for graduation. Required courses are English 9, English 10, English 11, and one credit from World Literature, American Literature, Native American Literature or Creative Writing.

101	English 9	1 Year	1 credit
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Required for grade 9

What you will learn in this class:

The English 9 course engages students in the careful reading and analysis of all genres of literature (short story, poetry, novel, etc.). By reading selected literary works, students deepen their understanding and enhance their pleasure in literature. Students analyze a

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variety of aspects of literature to derive meaning from their experience of reading. Students consider literary works in relation to their own lives and experience as well. Titles studied: *The Freedom Writers Diary*, *Romeo and Juliet*, *The Glass Castle*, *Speak*.

How students will learn:

Students will learn through the use of a variety of classroom strategies designed to present concepts and information effectively. Students will also work in small groups and give class presentations, where communication and collaboration skills are reinforced.

Why this course is important:

This course prepares students for more advanced English courses and to attend higher level educational institutions. This includes both technical and four year colleges and is a required course for most four year universities.

102	English 10	1 Year	1 credit
	Required for grade 10		

What you will learn in this class:

Students in English 10 will master reading strategies to better understand the fiction and nonfiction texts connected to the themes studied throughout the year. Students will complete research projects, media products, and oral presentations to dig deeper into literary devices and techniques. Students in English 10 will analyze, discuss, and write about novels, poems, and drama related to the theme studied in each unit.

How students will learn:

Students will learn through the use of a variety of classroom strategies designed to present concepts and information effectively. Students will also work in small groups and give class presentations, where communication and collaboration skills are reinforced.

Why this course is important:

This course prepares students for more advanced English courses and to attend higher level educational institutions. This includes both technical and four year colleges and is a required course for most four year universities.

106	English 11	1 Year	1Credit
	Required for Grade 11		

What you will learn in this class:

This class is a survey of a range of work produced in the United States from the time of early Native American writers to recent times. Works are chosen to represent diverse ethnic, racial, and social groups in historical, political, and economic context for what they both reflect and reveal about the evolving American experience. Works will include fiction, nonfiction, and poetry. This course will emphasize responding to literature through writing short essays and will include one full-length research paper. Vocabulary, word work, and grammar skills are heavily emphasized to create better writers.

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How students will learn:

Students will learn how to think critically by reading samples of American Literature guided by thought provoking questions and writing varying sized responses. Analytical writing will be emphasized along with response papers. Students will also work in small groups and give class presentations where communication and collaboration skills are reinforced. Weekly vocabulary lessons coupled with grammar lessons are embedded as needed.

Why this course is important:

This course helps the student understand the contribution American writers have made to the world along with the social discussions that arise from each generation. This class also begins the process of creating college ready students. The rigors of academic analyzing and writing are strongly reinforced. Whether you are college bound or not, communication is of vital interest to everyone. In addition, the thinking skills developed in class will benefit all as they enter into society as an active member.

114	World Literature I	1 st Semester	.5 Credit
Open to grades 12			

What you will learn in this class:

This class is a survey of important works of world literature from ancient times through the mid-seventeenth century. The course will explore the Ancient World through Shakespeare. This course will emphasize responding to literature through writing short essays and will include one full-length research paper. Vocabulary, word work, and grammar skills are heavily emphasized to create better writers.

How students will learn:

Students will learn how to think critically by reading samples of period literature guided by thought provoking questions and writing varying sized responses. Analytical writing will be emphasized along with response papers. Students will also work in small groups and give class presentations where communication and collaboration skills are reinforced. Weekly vocabulary lessons coupled with grammar lessons are embedded as needed.

Why this course is important:

This course helps the student understand how literature has evolved from its earliest forms to the social commentary still going on the world today. This course will also continue preparing the student to be successful as they enter into technical or four year college as college level writing will be worked on throughout the course.

115	World Literature II	2 nd Semester	.5 Credit
Open to grades 12			

What you will learn in this class:

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This class is a survey of important works of world literature from 18th century through modernism. This course will emphasize responding to literature through writing short essays and will include one full-length research paper. Vocabulary, word work, and grammar skills are heavily emphasized to create better writers.

How students will learn:

Students will learn how to think critically by reading samples of period literature guided by thought provoking questions and writing varying sized responses. Analytical writing will be emphasized along with response papers. Students will also work in small groups and give class presentations where communication and collaboration skills are reinforced. Weekly vocabulary lessons coupled with grammar lessons are embedded as needed.

Why this course is important:

This course helps the student understand how literature adds to the globalization of political and social thought. This course will also continue preparing the student to be successful as they enter into technical or four year college as college level writing will be worked on throughout the course.

119	Communications/Creative Writing	1 st Semester	.5 Credit
	Prerequisite: 11th Grade English		
	Recommended Grade Level: 12		
	This class is limited to fifteen students.		

What you will learn:

Quarter 1: This is an introductory course to develop the student's communication skills through speaking and writing. In speech the emphasis will be on the students' skills, knowledge, and understanding of the public speaking process. Informative, persuasive, and impromptu speeches will be covered requiring research and reasoning skills, audience analysis, outlining, and delivery. Emphasis is on the research, preparation, delivery, and evaluation of informative, persuasive, and special occasion public speaking. Typed formal sentence outlines with works cited will be required. Speeches will mostly be memorized with the help of a few notecards. Listening and critiquing skills will also be addressed.

Quarter 2: Creative Writing makes use of beginning composition skills to write more creative works. Students will learn how to write dynamic and grammatically correct sentences that build in complexity by adding adverbial, subordinate, and connective clauses to simple sentences and then progress to adding rhythm, syntax, and word order to add meaning to their work. Works will include writing narrative, fiction, and drama as they develop critical skills and apply new knowledge and skills to their own writing. The emphasis will be on generating raw material, getting familiar with some basic strategies for reading and critiquing others' writing.

How you will learn it:

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Communications: Research techniques will be learned in class and applied to individual topics focusing on a topic, developing main points, gathering credible evidence, using transitions, organizing, drafting, revising, editing, and delivering. Through critically analyzing and evaluating both peer and professional speeches, the use of ethics will be employed to learn how to encourage others and how to receive constructive criticism. Each speech will be given a time limit which will require precise word choice to reach the fullest effect.

Creative Writing: This section will be an intensely “hands on” class where the class will be implementing the strategies presented. Writing skills will be taught one-by-one with lots of practice for each new method. Listening and speaking skills are practiced throughout the course. Students will share their work with others for critiquing and peer editing to help learn from each other to develop their own unique styles.

Why this course is important:

Communication skills are vital to ensure academic, work, and personal success. Both of these sections will provide the student with the skills to share their ideas within their society either verbally or through the written word.

132	Academic Writing	2 nd Semester	.5 Credit
Recommended Grade Level: 12			

What you will learn:

This introductory writing course will focus on writing, reading, and critical thinking. Students read and analyze college-level texts, write essays of increasing complexity, and practice stages of the composing process.

How you will learn it:

Students will read a short story or article and respond in the various forms required at the college level including short responses, online forum entries, and full paper length analyses. There will be class interaction with peer edits as well as ongoing personal feedback from the instructor regarding their writing and learning strategies for engaging in critical inquiry.

Why this course is important:

This class will develop the strategies and intellectual activities necessary to achieve proficiency in all college level courses. The critical thinking aspect is important to develop strategies to become independent thinkers, check facts before making decisions, and not be subject to the whims of others.

133	Contemporary Literature	1 Year	1 Credit
Recommended Grade Level: 12			

What you will learn in this class:

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This class will focus on the literature of the present generation with a focus on developing trends in thinking and writing. The student is encouraged to develop their own opinions as they read these works. Several contemporary poems, plays, essays, and short stories will be read. Contemporary literature works on the premise that truths only exist if a single writer or reader perceives them; therefore, much time will be spent developing the students' understanding of how to formulate their own responses to each piece of literature. Writing exercises will be in-line with this theory. Reaction papers are emphasized along with some specific literary analysis. In addition to exploring the contemporary voice, this course will also explore the media of film to gain a critical understanding of how the social, cultural, and historical context of a film can influence society. Critical thinking skills will be emphasized as each piece is analyzed. Vocabulary, word work, and grammar skills are also emphasized.

How students will learn:

Through the class readings, the students will learn critical ideas and vocabulary so as to appreciate and understand each piece. Discussions on literary trends will be used to create short to medium length essays to communicate what was learned or create professional book critical reviews. Students will also work in small groups and give class presentations where communication and collaboration skills are reinforced. Film reviews will be done by the students including researching what others have said / are saying about it. Group discussions will focus on informed opinions that will make the art form of film more enjoyable.

Why this course is important:

Literature, whether it is in the form of book or film, makes a statement about one's culture. Using both mediums will enhance the students' ability to become critical thinkers about their own society and become an engaged member in the social dialogue. Confidence will be gained as each student learns to respond to each piece of literature and form their own perceptions. This class is designed for the student who wants to engage in deep thinking in an atmosphere of culturally relevant material.

FAMILY AND CONSUMER EDUCATION

601 Food, Family & Society	1 semester	.5 Credit
Open to grades 9-12		
\$10.00 Lab Fee		

What you will learn in this course:

Students who complete this course will better able to address food-related concerns of the family that they encounter in everyday life. Students engage in activities and projects that

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require conscious reasoning about context, valued ends, means and consequences in making judgments about what to do in making food choices. \$10.00 Lab Fee

How you will learn in this course:

Student will have differentiated instruction; students will have several projects, power points, class room activities, lab activities in the kitchen, and hand on instruction.

Why this course is important:

Food issues are a part our life. Making good food choices will influence our eating habits for the rest of our life. Learning to cook healthy, homemade food from raw ingredients is a skill you will use.

602 Culinary Arts	1 semester	.5 Credit
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Open to grades 9-12

\$10.00 Lab Fee

What you will learn in this course:

Introduction to food services will provide students with job entry level skills. With these skills students can enter part time food service jobs. Students may also want to continue in a career path in food service. Projects include quantity food production in the Valentine cookies and taco lab.

How you will learn in this course:

Student will have differentiated instruction; students will have several projects, power points, class room activities, lab activities in the kitchen, hand on instruction. Field trip includes Nicolet Areat Technical College Culinary Arts Program.

Why this course is important:

Culinary Arts is one of the largest industries in the United States. There are many job opportunities for well trained, energetic employees. Some students may choose a career as a chef, or choose part time positions to help support themselves while pursuing another career.

605 Intro to Child Care Services/Parenting	1 Semester	.5 Credit
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Open to grades 9-12

This course is a Transcribed credit at Nicolet College.

What you will learn in this course:

If you decide to work or have children in the future you will be in charge of the of the most valuable resource society has – children. When children have positive experiences as they develop they grow into adults who make contributions to society.

How you will learn in this course:

Student will have differentiated instruction, students will have several projects, power points, class room activities, hand on instruction, Field trip to Nicolet college and Crandon Head Start.

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Why this course is important:

Taking care of children is the most important job any person can have. Helping children to grow into healthy, high achieving, kind, helping adult is extremely rewarding. This course will help to become a good parent or a career as a caregiver.

607 On Your Own

1 Semester .5 Credit

Open to grades 9-12

What you will learn in this course:

In this course students will explore and practice skills necessary for independent living. Students will explore Careers, Resume writing, Interviewing, financial management, setting up a household, food selection for a healthy living, and human relations skills.

How you will learn in this course:

Student will have differentiated instruction; students will have several projects, power points, class room activities, role play, hand on instruction.

Why this course is important:

This course will help you to enter life on your own after high school. Making good choices and decisions and becoming independent.

MATHEMATICS

The Class of 2014 is required to take two credits of math to graduate. Beginning with the Class of 2015, three credits of math are required to graduate.

306 Algebra I

1 Year

1 Credit

Grade levels 9th -12th

Prerequisite: 8th grade Math

What you will learn in this course:

This course introduces students to the use of variables and their properties which will lead to the basic technique of problem solving. Students are made aware of the properties of real numbers and how these numbers are used in procedures for solving first and second degree equalities and inequalities, forming and evaluating formulas, and developing and interpreting math-related graphs. This course is the bridge from the concrete to the abstract study of mathematics. Real

World applications are presented within the course content to help students make the connection from algebra concepts to real world application.

How you will learn in this course:

The basic driver for this course is the algebra textbook. The student will learn through lecture and discussion, hands on homework problem solving, collaborate group activities and the compilation of an Algebra Portfolio. Smartboard activities, technology guides and

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graphing calculators are used to enhance student learning. This course will enhance the student's problem solving skills through the world of algebra.

Why this course is important:

Algebra is the cornerstone in developing the student's foundation for the study of the mathematical series of geometry, advanced algebra and trig. And calculus. In addition, students will continue to develop problem solving skills and learn to take their learning from the concrete and transform this to abstract ideas. This class is for student show will be attending a 4 year college or a 2 year technical school.

307	Geometry	1 Year	1 Credit
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Grades – 9th – 12th grades

Pre-requisites: Algebra I

May take concurrently with Algebra II with instructor's consent.

What you will learn in this course:

In this course students will become aware of the basic geometric figures beginning with points, lines, angles and planes. Students will learn the relationships between these geometric figures through geometric constructions, proofs emphasizing deductive reasoning and real-world application activities. Students will also learn solid coordinate geometric topics that will continue building problem solving techniques through the use of ratios and proportions. Students will learn area, volume, perimeter, graphing logic, transformations and an introduction to right triangle trigonometry.

How you will learn in this course:

The basic driver for this course is the Geometry textbook. The student will learn through lecture and discussion, hands on homework problem solving, collaborate group activities, assessments and the compilation of a Geometry Portfolio. Smart board activities, technology guides and graphing calculators are used to enhance student learning. This course will continue to build the student's problem solving skills through the world of geometry.

Why this course is important:

Geometry continues to build on the basic mathematical foundations found in algebra and continues students' growth in the traditional area of mathematics including algebra, geometry, advanced algebra and trig/calculus. The critical thinking, problem solving and writing developed in this course will serve the student well in whatever career choices they make in the future. This class is for students who will be attending a 4 year college or a 2 year technical school.

308	Trigonometry/Precalculus	1 Year	1 Credit
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Grades 11th and 12th grades

Pre-requisite: Algebra II

What you will learn in this course:

Students will investigate and build on functions from previous coursework, and expand to

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the trigonometric functions, exponential and logarithmic functions, polynomial functions, and series and sequences. Students will learn general properties that apply to all functions so that mathematical modeling can be used to solve real-world problems.

How you will learn in the course:

A traditional math instructional format is used where students will actively participate in large group discussions where key vocabulary is discussed and pertinent examples are modeled. Students will gain knowledge by studying concepts using four representations: numerical, algebraic, geometric, and verbal. Students will also be given the opportunity to investigate concepts through guided discovery. Students will work in small groups and give class presentations, where communication and collaboration skills are reinforced. Students will be given daily assignments to practice concepts, weekly assessments to monitor learning, and unit tests to assess learning.

Why this course is important:

This course prepares students for more advanced college mathematical course, and will be important for students planning careers in business, engineering, science, and the medical field. The goal of this course is to introduce students to college mathematics and to provide a foundation for future calculus courses.

309	Algebra II	1 Year	1 Credit
Grade 10 th – 12 th grades.			
Pre-requisites: Geometry			
May take concurrently with Geometry with instructor's consent.			

What you will learn in this course:

Students will investigate and build on algebra and geometry concepts from previous coursework. Through the study of functions, students will apply mathematical concepts to the domains of business, economics, science, life and vocational skills, and leisure activities. These functions include linear equalities and inequalities, matrices, quadratics, exponential, logarithmic, polynomial, rational, radical and the conic sections.

How you will learn in the course:

A traditional math instructional format is used where students will actively participate in large group discussions where key vocabulary is discussed and pertinent examples are modeled. Students will also work in small groups and give class presentations, where communication and collaboration skills are reinforced. Students will be given daily assignments to practice concepts, weekly assessments to monitor learning, and unit test to assess learning.

Why this course is important:

This course prepares students for more advanced mathematical courses and to attend higher level educational institutions. This includes both technical and four year colleges and is a required course for most four year universities.

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310	Integrated Math 4 Grades 11 th & 12 th Pre-requisite: Geometry	1 Year	1 Credit
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What you will learn in this course:

This course is designed to review and develop fundamental concepts of mathematics in the areas of arithmetic, algebra, geometry, trigonometry, and probability and statistics. Topics include proportion and percent applications, converting measurements, simplifying algebraic expressions, solving equations and inequalities, manipulating formulas, solving systems of equations and inequalities, finding areas and volumes of geometric figures, applying similar and congruent triangles, applying Pythagorean Theorem, solving right and oblique triangles, calculating probabilities, organizing and interpreting data, calculating central and spread measures, and summarizing and analyzing data.

How you will learn in the course:

Students will receive a packet for each unit. Each packet will provide students opportunities to use prior knowledge to construct new learning through the use of reviews for each section. Key vocabulary will be outlined and pertinent examples will be modeled. Independent practice is also given to assess student learning. Students will be given daily assignments to practice concepts, weekly assessments to monitor learning, and unit tests to assess learning. Students will also work collaboratively in groups on application projects. Students will also use technology (graphing calculators) to understand mathematical concepts.

Why this course is important:

This course fulfills graduation requirements in mathematics and provides the basic mathematical skills needed for more advanced coursework. This course is a transcribed credit course through Nicolet Technical College, course #10-804-107 College Mathematics. Problem-solving and application is woven throughout each unit. Number sense, algebra, geometry, statistics, and logic are presented as tools for investigating phenomena of the world and exploring math concepts. Students will learn how to use mathematics to their advantage in school, at home and at work.

329	Math Intervention Teacher Recommendation Required.	1 Year	0 Credit
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What you will learn in this course:

This class is intended as a Tier II intervention for students in math. It is offered in addition to, not as a substitute for, a regular core class. At the high school, it will not be assigned any credit value, nor will a grade be assigned. Its purpose is to help students be successful in math and bring their skills up to grade level.

How you will learn in the course:

Pre-teaching: students will preview material for upcoming class. Current Assignment: students will work on any pending assignments/projects. Remediation: students will work on missing assignments or prior concepts that are not mastered that will hinder new learning.

MUSIC

<u>751</u>	<u>Senior Band</u>	<u>1 Year</u>	<u>1 Credit</u>
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Open for students in Grades 9-12

Prerequisites: Previous instrumental music experience or permission from director.

What you will learn in this course:

This ensemble studies and performs music from selected composers and styles. Students will be exposed to the fundamental elements of music, music appreciation, compositional styles, and music theory.

How students will learn in this course:

Students will learn through ensemble preparation and participation of a variety of performances. These will include concert band, pep band, marching band, solo and ensemble, and large group festival. Students will learn through individual playing and group playing. Individual or small group lessons two times each quarter will assist in the students' progress.

Why this course is important:

Through participation in this class students will expand their understanding of music and how to play the repertoire. They will gain insight to how an ensemble works together; and will have the basis for a lifetime of music appreciation.

<u>752</u>	<u>Senior Choir</u>	<u>1 Year</u>	<u>1 Credit</u>
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Open for students in Grades 9-12

What you will learn in this course:

- You will learn to sing a wide repertoire of musical styles including classical, jazz and blues, gospel, folk, contemporary and popular.
- You will be exposed to a brief overview of the history of music covering the Middle Ages, Baroque Period, Classical Period, Romantic Period, Opera, Nationalism, Impressionism, Modernism, Post Modernism, 20th Century and Expressionism.
- You will learn to sing in 3 and sometimes 4 part harmony
- You will sing a variety of vocal literature including songs in other languages and from other cultures (e.g. Latin, Spanish, Hebrew, Japanese)
- You will learn to sing alone (solos) and with a group (choral)
- You will learn to read and sight sing basic music notation (pitches and rhythm)
- You will learn music vocabulary

How you will learn in this course:

- You will learn singing skills through sight-singing, proper tonal production, intonation, care and use of the voice, interpretation, diction, harmonization and memorization.

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- You will learn to sing accurately and expressively, using good breath control and technical accuracy.
- You will be given reading material on the history of music, and will need to answer a worksheet on what you have read (one worksheet per week)
- You will be given music in 3 part harmony and will learn how to read and sing your voice part
- You will learn basic rules on reading foreign languages – i.e. pronunciation of words
- You will have private voice lessons in preparation for solo and ensemble.
- You will do solfege worksheets that will help you in reading and sight singing basic music notation
- You will learn to identify and perform standard notation symbols for pitch, rhythm, dynamics, tempo, articulation and expression
- You will describe and analyze stylistic elements in listening and choral selections (e.g. expressive devices used, use of dynamics, techniques used to provide unity, variety, tension, release)
- You will interpret music knowledgeably and put it effectively into use when performing.

Why this course is important:

Music touches the soul. In Choir, students develop an understanding of music in its true art form. They experience the beauty of choral singing. They develop an appreciation of culture through singing songs in other languages and from different countries. They learn the music of the great masters. They learn to perform in different styles. They develop self confidence in singing and performing on stage. They learn skills that will last them a lifetime. While the final outcome is performance, all throughout the course, they are developing skills that will help them to read, interpret and perform music on their own.

754	Music Appreciation	1 Semester	.5 Credit
Open for students in Grades 9-12			

What you will learn in this course:

This course is the study of music appreciation. Students will learn the fundamentals of music theory, ear training, and music history. At the end of each quarter students will be tested on their knowledge gained. At the end of the semester course students will present their findings from a research project based on a topic chosen together by the student and instructor.

How you will learn in this course:

Students will learn by participating in class, working in the method book “Excellence in Theory” (provided for each student), listening to examples of music, and researching a variety of music genres and time periods.

Why this course is important:

Music Appreciation will provide students a fundamental and lifelong appreciation of music in all forms. Students will be able to read music after this course and will be able to participate in music activities beyond this music appreciation course.

PHYSICAL EDUCATION

012 Physical Education 1 Semester .5 Credit

Recommended Grade Level: 9-12

Prerequisites: None

What you will learn in this course:

The High School Physical Education Class is a one semester, ½ credit course that goes towards the 1.5 credits of Physical Education required for graduation. This is a fitness-based class. Students will be able to select different units to participate in, such as badminton, tennis, eclipse ball, table tennis, pickleball, volleyball, basketball, soccer, softball, touch football, ultimate frisbee, kickball, speedball, flickerball, team handball, floor hockey, lacrosse, dodgeball, bowling, archery, golf, weight lifting, geocaching, snowshoeing, disc golf, aerobic workout (Zumba, aerobics, yoga, etc.), yard games (bocce, horseshoes, croquet, washers, bean bag toss, ladder golf), dance, and walking. While participating in these fun activities, all students are expected to dress in appropriate physical education attire and are expected to participate appropriately in the activity being taught. They will also learn about SMART goal setting, fitness terminology, and how fitness levels affect the body.

In unfortunate cases in which a student has a temporary health condition that prohibits them from participation an alternative assignment will be given.

- NOTE: Any medical conditions that a student does not participate in at least 5 weeks of the quarter will need to take the quarter over.

How you will learn in this course:

Through fitness testing students will assess their fitness levels and work on improving/maintaining a healthy fitness level by participating in 5-10 day units. While participating in these units, students will learn the rules of the activities, etiquette of the unit, and sportsmanship. Through lecture, discussion, and logs, students will learn fitness related terminology and concepts during Health Topic days. The information on these days will be incorporated in class and will be on the final exam.

Why this course is important:

Our nation is becoming heavier. According to the CDC, approximately 17% (or 12.5 million) of children and adolescents aged 2—19 years are obese. While more than one-third of U.S. adults (35.7%) are obese. Wisconsin alone has 26.3% of its adult population that is obese. Since 1980, obesity prevalence among children and adolescents has almost tripled. In 2008, medical costs associated with obesity were estimated at \$147 billion; the medical costs for people who are obese were \$1,429 higher than those of normal weight. Some of the leading causes of preventable death are from obesity related conditions such as heart disease, stroke, type 2 diabetes, and certain types of cancer. Physical Education class can help students make connections between movement/activity and living a health active lifestyle. Staying active can be FUN!

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009	Fundamentals of Weight Lifting	One Semester	.5 Credit
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Recommended Grade Level: 9-12

Prerequisites: None

What you will learn in this course:

Fundamentals of Weight Lifting is a one semester, ½ credit course that goes towards the 1.5 credits of Physical Education required for graduation. This is an 18-week class of weight training to improve an individual's speed, agility, flexibility, coordination and muscular strength. Students will learn proper lifting technique (form, breathing, and range of motion) for a wide variety of lifts, what muscles are working during these lifts, proper behavior and etiquette when in the weight room, how to record on a weight lifting log, the difference between single joint lifts and multi-joint lifts, what lift should be preformed first, 1 Rep Max, and creation of a program. Students will be lifting a teacher created weight lifting program 4 days a week with one possible day to work on other aspects of fitness. This is a great class if you are self-motivated to increase your strength and speed.

While increase strength and speed, all students are expected to dress in appropriate physical education attire and are expected to participate appropriately in the activity being taught. In unfortunate cases in which a student has a temporary health condition that prohibits those from participation an alternative assignment will be given.

- NOTE: Any medical conditions that a student does not participate in at least 5 weeks of the quarter will need to take the quarter over.

How you will learn in this course:

Through fitness testing, participation, lecture, discussion, and worksheets students will learn about a wide variety of physical activities pertaining to weight training. Students will participate in fitness testing, flexibility, aerobic exercise, anaerobic exercise, and muscle anatomy.

Why this course is important:

Whether it is in a weight room, fitness facility, at home, or in a medical career, the terminology, concepts, and techniques a student learns in Fundamentals of Weight Lifting can be applied once they graduate high school.

010	Weight Lifting II	One Semester	.5 Credit
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Recommended Grade Level: 9-12

Prerequisites: Fundamentals of Weight Lifting or Weight Lifting I

What you will learn in this course:

Weight Lifting II is a one semester, ½ credit course that goes towards the 1.5 credits of Physical Education required for graduation. This is an 18-week class of weight training to improve an individual's speed, agility, flexibility, coordination and muscular strength. Students will create their own weight lifting 4 day a week lifting programs and will have to apply what they learned from Weight Lifting I. Students will also learn about making adjustments to their program, benefits and disadvantages of supplements, benefits of weight

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lifting, benefits of warm-ups for weight lifting, and other types of weight lifting like circuit training, cross training, and interval training. The possible other day of the week will be determined by the teacher to increase agility, cardiovascular endurance, or other areas of fitness. This is a self-driven class to increase strength.

While increase speed and strength, all students are expected to dress in appropriate physical education attire and are expected to participate appropriately in the activity being taught. In unfortunate cases in which a student has a temporary health condition that prohibits those from participation an alternative assignment will be given.

- NOTE: Any medical conditions that a student does not participate in at least 5 weeks of the quarter will need to take the quarter over.

How you will learn in this course:

Through fitness testing, participation, lecture, discussion, and worksheets/projects students will learn about creating a program and perform the lifts. Then they will have to make adjustments to a program. They will research topics on benefits and disadvantages of supplements, benefits of weight lifting, benefits of warm-ups for weight lifting, and other types of weight lifting like circuit training, cross training, and interval training.

Why this course is important:

This class will teach students principals of weight lifting for life long fitness. Students will be able to use what they learned in Weight Lifting I to create their own program. This will save students hundreds to thousands of dollars because they won't have to pay a personal trainer to create programs. It will also explore other ways of weight lifting beside traditional weight lifting and why supplements are not necessary for a normal weight lifter.

SCIENCE

Three credits of science are required for graduation.

401	Physical Science	1 Year	1 Credit
Required for Grade 9			

What you will learn in this course:

The physical science course introduces high school students to the broad spectrum of science by integrating chemistry, physics, and earth science. Topics to be investigated are science skills and conversions, matter, states of matter, properties of matter, atomic structure and the periodic table, bonding, chemical reactions, solutions, acids and bases, nuclear changes, force and motion, work & energy, simple machines, waves, sound, light, electricity, the solar system, the universe, our planet, the atmosphere, and natural resources.

How you will learn in this course:

Objectives will be obtained through a variety of learning approaches. Textbooks will be used as an alternative source of information; however, most information will be discussed in

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class through lectures, group discussions, activity worksheets, laboratory experiments, reinforcement activities and projects, study guides, reviews, and assessments.

Why this course is important:

In class, students will develop skills in observation, objective analysis, scientific inquiry, and in oral and written communications. Students will participate in activities that will allow them to learn data collection procedures and reporting results to the class. Activities will be designed so students are able to use scientific inquiry along with critical thinking skills to solve scientific problems. Students will present information from both a factual standpoint and an opinion standpoint to analyze problems from multiple perspectives.

402	<u>Biology</u>	1 Year	1 Credit
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Required for Grade 10

Prerequisite: Physical Science or a teacher recommendation

What you will learn in this course:

Students will learn about the various scientific concepts, principles, and methodologies of biology, the study of living things. The study of biology focuses on patterns, processes, and relationships of living organisms. This course will explore how individual organisms are constituted and how these structures function to support life, growth, behavior, and reproduction. In addition, this course will explain how organisms obtain energy, how they interact within and between species, the mechanisms of genetic inheritance and biological evolution.

How you will learn in this course:

Investigative labs relating to the class topics, lecture, discussion, and demonstrations will be used to present information. Students will develop skills in observation and in objective analysis, in scientific inquiry, and in oral and written communications. Students will participate in studies that allow them to learn data collection procedures and reporting results to the class.

Why this course is important:

The study of biology connects us to the world we are living in and reminds us of our interconnectedness with all other life forms. By studying biology, students learn to make more informed decisions about their own health and about significant biological issues. The study of biology prepares students to become scientifically literate citizens.

402	<u>Honors Biology</u>	1 Year	1 Credit
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For students in Grade 10

Prerequisites: B or better in Physical Science, teacher recommendation, and/or an advanced score in science on the WKCE or Explore Test.

What you will learn in this course:

Like Biology, Honors Biology students will learn about the various scientific concepts, principles, and methodologies of biology, the study of living things. The study of biology focuses on patterns, processes, and relationships of living organisms. This course will explore how individual organisms are constituted and how these structures function to

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support life, growth, behavior, and reproduction. In addition, this course will explain how organisms obtain energy, how they interact within and between species, the mechanisms of genetic inheritance and biological evolution. Honors Biology, however, puts a greater emphasis on student-centered and problem-based learning to allow a more rigorous and in-depth study of Biology.

How you will learn in this course:

Investigative labs relating to the class topics, lecture, discussion, and demonstrations will be used to present information. Students will develop skills in observation and in objective analysis, in scientific inquiry, and in oral and written communications. Students will participate in studies that allow them to learn data collection procedures and reporting results to the class.

Why this course is important:

This college prep course is designed to accommodate the needs of the more independent/advanced student that learns at a faster rate, especially those considering careers in any science-related field. The study of biology connects us to the world we are living in and reminds us of our interconnectedness with all other life forms. By studying biology, students learn to make more informed decisions about their own health and about significant biological issues. The study of biology prepares students to become scientifically literate citizens.

403	Chemistry	1 Year	1 Credit
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Prerequisite: Algebra I and a C or better in Biology (or instructor's consent). Must be concurrently enrolled in Algebra II.

Recommended Grade Level: 11 - 12

What you will learn in this course:

Students will be introduced to topics of chemistry to ultimately be able to connect atomic structure to components of our physical world. This chemistry course introduces high school students to the study of the basic principles of chemistry including atomic structure, periodic properties of elements, chemical bonding, molecular structure, physical properties of compounds, chemical reactions, stoichiometry, equilibrium, thermodynamic and kinetic aspects of chemical reactions, acid-base reactions, precipitation reactions, redox reactions, organic compounds, and nuclear reactions.

How you will learn in this course:

Objectives will be obtained through a variety of learning approaches. Textbooks will be used as an alternative source of information; however, most information will be discussed in class through lectures, group discussions, activity worksheets, laboratory experiments, reinforcement activities and projects, study guides, reviews, and assessments.

Why this course is important:

Chemistry is the study of matter, its composition, structure, properties, and how it changes, especially in chemical reactions. If we look at the world that surrounds us, there isn't much that we can come across that doesn't relate to chemistry. The ability to understand and manipulate chemicals is what is responsible for everything from the food on our tables to the

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medicine that can cure us. Without chemistry, the world would be a very mysterious place, and chances are, we wouldn't be living the same lives we currently live. Chemistry is involved in everything; it is the basis of life, without chemistry we wouldn't exist.

404 Physics 1 Year 1 Credit

Prerequisite: Trig/Pre-Calc. must be taken concurrently.

Recommended Grade Level: 12

What you will learn in this course:

The physics course introduces high school students to the study of the basic concepts of physics using elementary algebra, geometry, and trigonometry. Topics include vector algebra, motion, gravity, work, energy, momentum, angular momentum, conservation laws, thermodynamics, and vibrations and waves, electricity, and magnetism.

How you will learn in this course:

Objectives will be obtained through a variety of learning approaches. Textbooks will be used as an alternative source of information; however, most information will be discussed in class through lectures, group discussions, activity worksheets, laboratory experiments, reinforcement activities and projects, study guides, reviews, and assessments.

Why this course is important:

Physics, the study of matter, energy and their interactions, is a fundamental science course that plays a key role in the future progress of humankind. Physics is an intellectual adventure that inspires students to think critically, to connect math skills with scientific problems, to generate fundamental knowledge of how things work so students can design, develop, and engineer new scientific concepts, and to extend or enhance their understanding of other disciplines including physical science, chemistry, biology, earth science, trigonometry, and algebra.

405 Environmental Science 2nd Semester .5 Credit

Recommended Grade Level: 11-12

Prerequisites: Successful completion of Physical Science and Biology

What you will learn in this course:

Environmental Science is a one semester, ½ credit course that combines components of earth science, biology, chemistry, ecology, and environmental ethics as they apply to the study of our natural resources, including natural and man-made processes that effect global change. Environmental Science includes a study of environmental problems and their causes, human population and urbanization, climate, renewable and non-renewable resources.

How you will learn in this course:

Investigative labs relating to the class topics, lecture, discussion, and demonstrations will be used to present information. Students will develop skills in observation and in objective analysis, in scientific inquiry, and in oral and written communications. Students will participate in studies that allow them to learn data collection procedures and reporting results to the class.

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Why this course is important:

Our nation's future will depend on citizens who are informed stewards of our environment which sustains us, our families and communities, and future generations. Environmental Science can help us make connections between economic prosperity, benefits to society, environmental health, and our own well-being.

410 Ecology 1st Semester .5 Credit

Recommended Grade Level: 11-12

Prerequisites: Successful completion of Physical Science and Biology

What you will learn in this course:

Ecology is a one semester, ½ credit course. This course studies the processes regulating the distribution and abundance of organisms and the interactions among them, and the study of how these organisms in turn mediate the transport and transformation of energy and matter in the biosphere (i.e., the study of the design of ecosystem structure and function). Ecology includes a study of basic ecological principles, forestry, soils, and land use.

How you will learn in this course:

Investigative labs relating to the class topics, lecture, discussion, and demonstrations will be used to present information. Students will develop skills in observation and in objective analysis, in scientific inquiry, and in oral and written communications. Students will participate in studies that allow them to learn data collection procedures and reporting results to the class.

Why this course is important:

The purpose of ecology is to provide knowledge about the way the world works and provide evidence on the interdependence between the natural world and people. A better understanding of ecological systems will allow society to predict the consequences of human activity on the environment.

423 Human Biology 1 Year 1 Credit

Recommended Grade Level: 12

Prerequisite: Biology & Algebra I

**Available for 3 credits from UW-Green Bay

What you will learn in this course:

This course provides the student with a broad overview of biology with respect to humans. The goal of this course is to stimulate each student's natural curiosity and to inspire an appreciation for the intricacies of human biology. In order to achieve this goal, this course will provide a conceptual framework for understanding how the human body works and for dealing with issues relevant to human health in the modern world. This course will explore human biology as a process, evolution, energy transfer, continuity and change, relationship of structure to function, regulation, interdependence in nature, and the unified understanding of the human biology as it pertains to science, technology, and society.

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How you will learn in this course:

Investigative labs relating to the class topics, lecture, discussion, and demonstrations will be used to present information. Students will develop skills in observation and in objective analysis, in scientific inquiry, and in oral and written communications. Students will participate in studies that allow them to learn data collection procedures and reporting results to the class.

Why this course is important:

Human Biology provides students with a conceptual framework for understanding how their bodies work and for dealing with issues relevant to human health in the modern world. This course illustrates the connections between biological concepts and issues of current social, ethical, and environmental concern in order to help students understand the importance of these concepts in their lives. This course is part of the College Credit in High School program at UW-Green Bay which offers college credit courses within high schools and provides opportunities for academically qualified high school students to engage in special college-level learning experiences. Students taking this course can earn three credits from UW-GB while paying only half of the per credit on-campus fee.

425	Earth & Space Science	1 Year	1 Credit
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Recommended Grade Level: 10 - 12

Prerequisites: None

What you will learn in this course:

Students will learn about the various scientific concepts, principles, and methodologies of Earth and Space Science. The study of Earth and Space Science focuses on the sciences that deal with Earth and its neighbors in space. This course will explore physical geology which includes the materials that make up Earth and the possible explanations for the many processes that shape our planet and historical geology which helps us understand Earth's long history. In addition, we will delve into oceanography, meteorology, and astronomy.

How you will learn in this course:

Investigative labs relating to the class topics, lecture, discussion, and demonstrations will be used to present information. Students will develop skills in observation and in objective analysis, in scientific inquiry, and in oral and written communications. Students will participate in studies that allow them to learn data collection procedures and reporting results to the class.

Why this course is important:

Natural forces not only shape Earth but also affect life on Earth. By understanding how natural forces shape our environment, we can better predict potential disasters and understand how humans impact our environment. Earth provides the resources that make life as we know it possible. Earth also provides the materials to enrich the quality of people's lives. The study of Earth and Space Science can help people gain access to Earth's resources and to help people use those resources wisely.

SOCIAL STUDIES

All of these courses are full-year courses except Native American Studies and Psychology which are semester classes. World Studies, Foundations of Government, American History, Economics, and Sociology are all required for graduation. Native American Studies and Psychology are elective courses.

200	World Studies	1 Year	1 Credit
Required for students in grade 9.			

What you will learn in this course:

Students enrolled in World History will conceptually learn the narrative of human civilization. This includes social structure, the rise of cities, language, the growth of government, the use of writing, religion, daily life, and the arts. Students will also learn about the geography of these human civilizations.

How you will learn in this course:

Students will be active learners in world History. Students will complete several projects throughout the course of the year, and in the process, become better readers, researchers, problem solvers, users of technology and cooperative learners.

Why this course is important:

As a result of World History, students will gain an understanding of the physical world, as well as an appreciation for other cultures.

201	Foundations of Government	1 Year	1 Credit
Required for students in Grade 10.			

What you will learn in this course:

Students will gain an understanding of national, state and local government while examining the principles, origins and framework of democracy.

How you will learn in this course:

Students will learn through a variety of classroom strategies designed to effectively present concepts and information. These include lecture, active discussion, reading of textbooks and primary materials, films and projects.

Why this course is important:

Students will gain an understanding of the rights and responsibilities of being an American citizen, and a general knowledge of our political system and the workings of government.

202	American History	1 Year	1 Credit
Required for students in Grade 11.			

What you will learn in this course:

This course will provide students with a general knowledge of American History from 1865

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to present. The political, economic, cultural history of the United States will be presented.

How students will learn in this course:

Students will learn through the use of a variety of classroom strategies designed to present concepts and information effectively. These include lecture, active discussion, reading of textbooks and primary source materials, projects and films.

Why this course is important:

The concepts learned in this course will give students a greater appreciation of American History and its influence on our country today. In addition students will gain an understanding of America's role in a global world.

203	Economics	1st Semester	.5 Credit
Required for students in Grade 12			

What you will learn in this course:

Economics is the study of choices people make due to unlimited wants and scarce resources. Macro and micro economic concepts and institutions will be defined and identified. In addition, an extensive unit on investing along with a 10 week stock market simulation will be played. Current events will also be discussed.

How students will learn:

Students enrolled in Economics will not only explore the important concepts but will also work on their writing, reading, leadership and organizational skills. Also, students will be given the opportunity to use computers and technology.

Why this course is important:

Students will gain an understanding of economic concepts such as scarcity, inflation, investing, money and banking, GDP, unemployment and economic systems. Using examples from the real world, students will make connections between what they are learning and their own lives. This class will also prepare students for careers within the accounting and business fields.

204	Sociology	2 nd Semester	.5 Credit
Required for students in Grade 12			

What you will learn in this course:

Sociology is the study of human society and social behavior. Units on population issues, education, crime, discrimination, environmental quality, abuses, poverty, and terrorism will be presented. Current events will also be discussed.

How students will learn:

Students enrolled in Sociology will not only explore the important concepts but will also work on their writing, reading, leadership and organizational skills. Also, students will be given the opportunity to use computers and technology.

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Why this course is important:

This course relates the role individuals, institutions and events play in recurring and emerging human problems. This class will also prepare students for careers within the fields criminal justice, education, human services, government and demography.

205	Native American Studies	1 Semester	.5 Credit
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What you will learn in this course:

Native American Studies will present an overview of the history and cultures of Native Americans. Sovereignty issues will be emphasized. Wisconsin tribes, particularly the Ojibwa and Potawatomi, will be primary focus. Treaties, laws, and defining historical events will be examined.

How students will learn in this course:

Students will learn through the use of a variety of classroom strategies designed to present concepts and information effectively. These include lecture, active discussion, reading of textbooks and primary source materials, projects and films.

Why this course is important:

Students will gain and understanding and appreciation of Native American History and culture which is extremely relevant in our community.

210	Psychology	1 Semester	.5 Credit
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What you will learn in this course:

Psychology will focus on basic psychological concepts and approaches. Students will be introduced to the origins of psychology and to modern changes and advances in the field. Topics featured will include biological processes such as the nervous and endocrine systems, sensation, perception, developmental processes, learning and memory, motivation and emotion, personality, stress, psychopathology, and social behavior.

How students will learn in this course:

Students enrolled in Psychology will not only explore the important concepts in the field, but will also work in their research, writing, reading, leadership and organizational skills.

Also, students will be given the opportunity to use computers and technology. The course consists of several labs, hands-on activities, and projects using the scientific method.

Why this course is important:

Psychology is an elective course suitable to both college bound and non-college bound students in grades 10-12. This course will give students a better understanding of themselves and others. Students will also learn to write an APA style research paper on a psychological disorder.

SPANISH

721 Spanish I 1 Year 1 Credit

What you will learn in this course:

Students will learn to communicate in Spanish at a basic level. Using the present tense, they will learn to describe people and school related things, shop for clothing and school supplies, order and shop for food, talk about their families, discuss sporting events, and deal with health issues. They will also learn a great deal about the Latino culture.

How students will learn in this course:

They will have a combination of reading, writing, speaking, and listening activities. Daily cultural information will be infused into the lessons. Learning games and group work are blended with grammar and vocabulary exercises so students can get the most practice using the language.

Why this course is important:

Knowledge of Spanish language and Latino culture are increasingly important in today's changing world. In many careers, employees deal with Latino coworkers or clients. Also knowing another language opens up many travel opportunities.

722 Spanish II 1 Year 1 Credit

Prerequisite: Must have a C or better in Semester 1 of Spanish I or consent of instructor.

What you will learn in this course:

Students will expand their Spanish skills by learning how to use the past tense. They will learn to discuss vacation activities, the fine arts, getting ready for school, taking a train trip, ordering in a restaurant, using technology, shopping for groceries and clothes, and describing their childhood and other past events.

How students will learn in this course:

They will have a combination of reading, writing, speaking, and listening activities. Daily cultural information will be infused into the lessons. Learning games and group work are blended with grammar and vocabulary exercises so students can get the most practice using the language.

Why this course is important:

Knowledge of Spanish language and Latino culture are increasingly important in today's changing world. In many careers, employees deal with Latino coworkers or clients. Also knowing another language opens up many travel opportunities.

723 Spanish III 1 Year 1 Credit

Prerequisite: Must have a C or better in Semester 1 of Spanish II and consent of instructor.

What you will learn in this course:

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Students will continue to improve their Spanish skills, focusing on speaking and listening skills. They will learn to express themselves in the future, conditional, and perfect tenses and learn how to give commands. They will learn to discuss pastimes, staying at a hotel, an airplane trip, a medical emergency, city vs. country, preparing food, driving, holidays, and professions.

How students will learn in this course:

They will have a combination of reading, writing, speaking, and listening activities. Daily cultural information will be infused into the lessons. Learning games and group work are blended with grammar and vocabulary exercises so students can get the most practice using the language. The class will be conducted mostly in Spanish.

Why this course is important:

Knowledge of Spanish language and Latino culture are increasingly important in today's changing world. In many careers, employees deal with Latino coworkers or clients. Also knowing another language opens up many travel opportunities.

724	Spanish IV	1 Year	1 Credit
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Prerequisite: Must have consent of instructor.

What you will learn in this course:

Students will work toward perfecting their Spanish, review grammatical concepts and vocabulary learned in Spanish I, II, and III. Additionally, they will learn the subjunctive mood, perfect tenses, and por vs. para. Students will learn history, geography, and culture of the Spanish speaking countries of the world. Speaking and listening skills will be the main focus.

How students will learn in this course:

They will have a combination of reading, writing, speaking, and listening activities. Daily cultural information will be infused into the lessons. Learning games and group work are blended with grammar and vocabulary exercises so students can get the most practice using the language. The class will be conducted totally in Spanish and students must also use Spanish exclusively.

Why this course is important:

Knowledge of Spanish language and Latino culture are increasingly important in today's changing world. In many careers, employees deal with Latino coworkers or clients. Also knowing another language opens up many travel opportunities.

***This class can be taken as UW-Green Bay Spanish 202. Students have the opportunity to receive 14 college credits. Upon completion of this course, students will only need 10 more credits to minor in Spanish.

TECHNOLOGY EDUCATION

These courses are intended to give students both background knowledge and “hands-on” experience.

800	<u>Auto Maintenance</u>	<u>One Semester</u>	<u>.5 Credit</u>
	Grades 9-12		
	Pre Requisite: Small Engines		

What will you learn in this course:

Students will learn the functions of an automobile and all of its parts. Everything from the basics of an engine to the exhaust system will be introduced. Students will learn why all of these different technologies need to work together so an automobile runs properly. Students will also be introduced to the computer systems on today’s newer automobiles and learn the functions of the computer. Everything from troubleshooting and programming the vehicle will be introduced.

How students will learn in this course:

Students in this course will learn in a variety of ways. They will have hands on assignments where they actually work on a vehicle. They will be given demonstrations and lectures on the different part of the vehicle. They have a few videos on areas that we cannot cover within our shop, and they will be working together in groups as part of a team learning exercise.

Why this class is important:

This class is important because automobile technology is changing rapidly each year. It is also getting more expensive to fix vehicles with this new technology. This class introduces students to this technology so they are up to date with what is going on in the automotive field and also gives them the knowledge to make sure their vehicle is fixed right the first time. This class is a prerequisite for Advanced Auto and a great way for students who are interested in Auto’s for a career to be introduced to the Automotive field.

804	<u>Woods I</u>	<u>One Semester</u>	<u>.5 Credit</u>
	Grades 9-12		

What you will learn in this course:

Students in this course will learn the basic functions of woodworking. Students will learn about the different types of wood and building materials along with the advantages and disadvantages of each. Students will also be introduced to different types of joinery and gluing methods. It is also required that students learn how to use the tools properly and safely. Shop maintenance and general overall safety in the workplace will also be a major part of the curriculum.

How will students learn in this course:

This class uses a variety of different styles of learning. Students will have lecture on various aspects of the class along with demonstrations. There are also opportunities for students to

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work in groups as part of team learning exercises. Most of the learning will be hands on with one on one instruction due to the variety of projects that are built in the lab.

Why this course is important:

This course introduces students to the tools and machines used industry and how to use them. Students are also introduced to building materials and processes used in woodworking and construction.

860	Woods II	One Semester	.5 Credit
	Grades 10-12		
	Pre requisite: Woods I		

What you will learn in this course:

This is an advanced woodworking class. Students will learn building processes and about building materials that are best for their projects. Joinery, finishing, clamping, and jig building are just a few of the topics covered in this course. Students in this class will be expected to design their own project, build the project, and then assess the work they have done.

How students will learn in this course:

This class is a hands-on class.

Why this course is important:

This course offers student the ability to gain in depth knowledge in the woodworking field.

815	Construction Technology	One Semester	.5 Credit
	Grades 10-12		
	Pre-requisite: Woods I & Woods II		

What you will learn in this course:

Students will learn the basic building process in this class. Things like: framing, electrical, plumbing, roofing, siding, etc. are covered in this course. Students will be shown how to safely use the tools associated with construction industry. Things like building codes and other construction vocabulary that businesses require employees to know will be discussed.

How students will learn in this course:

There is a little lecture in this course but for the most part it will be demonstration and hands on learning. Students will be expected to show up every day ready to work and will be graded on their studio work ethic. Students will be typically working in a group, which means your group members will be depending on you. Failure to meet work ethic standards could mean disciplinary action.

Why this course is important:

This course introduces students to the construction industry and what will be expected of them if they choose to enter this field as a career. It is a great way for students to learn about construction and decide if it is a career path that they want to pursue.

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820	CADD	One Semester	.5 Credit
<hr/> Grades 10-12			

What you will learn in this course:

Students will learn the design process of most manufacturing processes. Students will learn everything from rough drafts to a final 3-D style drawing. The biggest part of this course will be learning how to use the CADD software to develop a product. This course also has a section on home design and how communities are designed.

How will students learn in this course:

This class is very heavy on demonstration and hands on learning. There are a few lectures but most learning will take place from demonstration and hands on.

Why this course is important:

The course introduces students to the design process. There are many different career paths that a student could go onto from this course: Engineering, Architecture, Manufacturing, etc. This course is strongly suggested if you are interested in any of these fields.

835	Welding Processes	One Semester	.5 Credit
<hr/> Grades 9-12			

What you will learn in this course:

Students will learn the different techniques and theories of welding and metal fabrication. Welding processes such as: SMAW, OAW, Soldering, GMAW, etc. will be introduced and performed by the students. Students will also be introduced to the different types of filler metals and welding gases used in industry today. Students will also build a metals project using these welding processes.

How students will learn in this course:

This class is about 60% hands-on and 40% demonstration and lecture.

Why this course is important:

This class should be taken by a student interested in Welding as a career choice. Students will get a complete welding experience that will help students determine whether or not it is a career path they want to follow.

836	Advanced Welding and Fabrication	One Semester	.5 Credit
<hr/> Grades 10-12			
Pre-requisite: Welding Processes			

What you will learn in this course:

Students will be expected to be able to perform the basic welding techniques and use the different welding processes demonstrated in class. Students will learn about the different welding codes and terminology associated with the welding field. Students will also learn the basics of weld inspection and will inspect their welds throughout the course. At the end of this course students will be expected to be able to pass a welding certification style test.

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How students will learn in this course:

This class will be basically all demonstration and hands on learning.

Why this course is important:

Students that plan on manufacturing and welding as a career will benefit from this course because this class will really prepare them for Post-Secondary training or even just entering the work force. After completing this course students will be eligible to take a transcribed credit course for SMAW welding.

845	Small Engines	One Semester	.5 Credit
Grades 9-12			

What students will learn in this course:

This course offers students the opportunity to learn about small engines. Both two and four stroke engines are discussed. Students will learn about the basic parts, and the functions of these parts in a small engine. Everything from carburetion to electrical is discussed in this semester long course. Students will be expected to be able to disassemble an engine and put it back together by the end of the semester.

How will students learn in this course:

This class does have lecture as a major component to the class. Students will also have plenty of hands on and demonstration learning throughout the semester.

Why this course is important:

Students must take and pass this course in order to be eligible for the automotive classes.

850	Automotive Technology	One Semester	.5 Credit
Grades 10-12			
Pre-requisite: Small Engines			

What you will learn in this course:

Students will be introduced to automotive technology. We will go through the basic parts and their function on an automobile. Students will be required to learn each of these parts and their function. Students will also be introduced to auto shop work ethic and the basic functions that a typical mechanic is expected to perform. Students will also be expected to do simple maintenance on a vehicle: oil changes, tire balancing, tire rotation, change brake pads, etc. By the end of the semester students will be expected to perform these basic tasks.

How students will learn in this course:

Students will learn through a variety of lectures, videos, demonstrations, and most importantly hands on experience.

Why this course is important:

This course introduces students to automotive technology and will give them a good understanding of whether or not they want to pursue this field as a career. The course is also required if a student wants to take Advanced Auto.

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870	Advanced Auto	One Semester	.5 Credit
	Grades 10-12		
	Pre-requisite: Small Engines & Automotive Technology		

What you will learn in this course:

Students in this course will learn in depth about the automotive design and technologies. This class will deal mostly with troubleshooting and fixing problems on vehicles. Students will be expected to bring in vehicles and perform advanced repairs to vehicles. Things discussed will be ODB II system and the latest diagnostic equipment.

How students will learn in this course:

This class is just about all hands on learning.

Why this course is important:

This is a must have course for students that are serious about entering the automotive field.

875	Home & Auto	One Semester	.5 Credit
	Grades 10-12		

What you will learn in this course:

Students will be introduced to two different types of course materials. The first nine weeks students will learn the basics of home maintenance. Things such as drywall, electrical, plumbing, etc. will be discussed along with all the proper terminology associated with home maintenance. The second nine weeks will focus on vehicle maintenance. How to properly maintain a vehicle and what type of vehicle would best fit your needs. Things like what to look for in your vehicle to let you know something is wrong is a major area of course work. Students will also be expected to perform all proper maintenance on their own vehicle.

How students will learn in this course:

Students will be given information in basically three ways. Short lecture, demonstration and hands on experience.

Why this class is important:

This class is perfect for any student looking to live on their own right after graduation.

857	Electricity	One Semester	.5 Credit
	Grades 9-12		

What you will learn in this course:

This course introduces students to a various number of fields in electricity. Students will spend part of the semester learning about residential electricity, and the rest of the time learning about electronics. Both AC and DC will be discussed as the course goes on. Students will be expected to be able to run simple electronic circuits along with being able to run electrical wiring for a house. Students also will learn vocabulary associated with the electrical systems.

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How will students learn in this course:

This class has lecture for the vocabulary and code section of the course. The rest of the course is will be demonstration and hands on based.

Why this course is important:

Any student interested in a career dealing with electronics or electricity should take this course.

902	School Productions Grades 9-12	One Semester	.5 Credit
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What you will learn in this course:

Students will be responsible for creating the yearbook. Photography, page layout, advertisements and video will be some of the things that we go through in the class. Each student will be assigned pages in the yearbook and they will have to have them finished by deadlines that are determined by the publisher. Students will be responsible for going out and getting the advertisements for that year's yearbook.

How students will learn in this course:

Students will be given information in one of three ways: Lecture, Demonstration, and Hands On.

Why this course is important:

This class would be beneficial to any student that is considering a career in Graphic Design.

NON-DEPARTMENT

903	Tutoring	1 Semester	.5 Credit
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This course allows students to work with other students who desire tutoring help in class studies. Tutors are assigned by the instructor, receive regular supervision, and earn a grade of pass/fail.

904	Work Study	1 Semester	.5 Credit
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Open to seniors only

This course offers seniors an opportunity to get valuable on-the-job training for credit. Students must be working in a field that is directly related to their future career. Up to 1 credit is allowed for Work Study and is graded as pass/fail.

909	Science Lab Assistant	1 Semester	.5 Credit
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The student works under the direction of the science teachers to prepare lab materials and to set up laboratory experiments. Offered to grades 9-12. Graded as Pass/fail.

913	Guided Learning	1 Semester	0 Credit
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Time allotted to prepare student assignments. Normally, every student will be assigned one per day.

915	Library Aide	1 Semester	.5 Credit
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Typing, filing, returning books to shelf, anything else IMC specialist deems necessary.
Library Aide is graded as pass/fail.

925	Computer Lab Assistant	1 Semester	.5 Credit
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Grade 9, 10, 11, 12

Prerequisite: Teacher's consent

The student assists the Technology Resource/Records Coordinator in various computer areas. These including software installation, network upkeep, cabling termination, general maintenance, and internet/homepage design and upkeep. Graded as pass/fail.

940	Youth Options
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The youth options program was established to allow 11th and 12th grade pupils to enroll at an institution of higher education (IHE) in Wisconsin and take courses that lead to credit granted toward high school graduation. Please see the school counselor for enrollment information.

NWECS OFFERINGS

Intro to Marketing	1st Semester, 8:13 – 8:56 a.m. .	5 credit
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Originates from Medford HS Prerequisite: None/Grades 11-12.

Description: This course is designed to give you a look at the world of marketing. This course will provide you with techniques and concepts used in contemporary marketing including: new product development, sales promotions, marketing research, and pricing. Access to a computer with internet access during class is recommended.

Instructor: Ryan Pilgrim, pilgrry@medford.k12.wi.us.

Entrepreneurship	2nd semester, 8:13 – 8:56 a.m.	.5 credit
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Originates from Medford HS

Prerequisite: None/Grades 11-12.

Description: Explore business ownership and management with this class. Develop business confidence through simulations and practical applications. Use computer simulations to run and operate your own business. Access to a computer with internet access during class is recommended. Instructor: Ryan Pilgrim, pilgrry@medford.k12.wi.us.

Sports' Marketing	1st Semester; 9:00 – 9:43 a.m.	.5 credit
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Originates from Medford HS

Prerequisite: Intro to Marketing is recommended/Grades 11-12

Description: Students will apply basic marketing concepts to the world of Sports and Entertainment.

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They will create a sports franchise as well as demonstrate promotion and sales techniques in the Sports and Entertainment Industry. Students will also create their own fantasy team. Access to a computer with internet access during class is recommended. Instructor: Ryan Pilgrim, pilgrry@medford.k12.wi.us.

Medical Terminology **1st semester; 9:00 – 9:43 a.m** **.5 credit**

Originates from Medford HS

Prerequisite: “C” or better in Biology is recommended/Grades 11-12

Description: This course is designed for students interested in medical fields. Using the word building system, this course teaches students to pronounce, define, build, spell and analyze medical terms. This course is based on the anatomy and physiology of the human body’s systems. Textbooks and materials will be the responsibility of the individual schools. Instructor: Kristine Gingras, gingrkr@medford.k12.wi.us.

Ethics **1st semester; 12:30 – 1:55 p.m. (Tuesdays and Thursdays)** **.75 credit**

Originates from Nicolet College.

Prerequisite: Must have completed Youth Options paperwork

Description: Explores contemporary moral problems including animal rights; capital punishment; environmental ethics; euthanasia; job discrimination, sexual harassment and affirmative action; reproductive choices; race and ethnicity; world hunger, and poverty.

Intro. to Diversity Studies **1st semester; 12:00-1:25 (Mondays and Wednesdays)** **.75 credit**

Originates from Nicolet College.

Prerequisite: Must have completed Youth Options paperwork

Description: Introduces learners to the study of diversity from a local to a global environment using a holistic, interdisciplinary approach. Encourages self-exploration and prepares the learner to work in a diverse environment. In addition to an analysis of majority/minority relations in a multicultural context, the primary topics of race, ethnicity, age, gender, class, sexual orientation, disability, and relation are explored.

WISCONSIN VIRTUAL SCHOOL (WVS) OFFERINGS

***First time online students must enroll in Digital Photography.**

***All other classes need Mrs. Ackley’s approval.**

All online students should be in good-standing. Their attendance should be optimal. Failing students will not be admitted into the WVS program. Permission slips must be signed by a parent, Mrs. Ackley, Mrs. Keao, and Mr. Space prior to enrolling. If students do not meet CHS standards for passing the online class, they will be responsible for full payment.

“Wisconsin Virtual School (WVS), is a supplemental online course provider that partners with school districts throughout Wisconsin, to offer online courses to middle and high school students.

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WVS has been operated out of CESA 9 since 2000 and has served over 15,000 enrollments to date, with over half of Wisconsin's school districts participating in the program. WVS "uncomplicates" the process of adding online courses to a district's middle and high school curriculum. WVS takes care of the details, providing the content, learning management system (LMS), Wisconsin-certified online teachers, technical support, training, server, and much more."

<http://www.wisconsinvirtualschool.org/index.cfm>

Electives

Personal Finance

One Semester

.5 Credit

Understanding financial management concepts is an important life skill. From credit to insurance to taxes, it is imperative that students understand the consequences of their choices. Wisely managing their money, students become citizens that are more responsible. A thorough understanding of financial concepts, with practical application through activities and projects, will enable students to leave this course with applicable, useful skills for life. This course surveys the basic personal financial needs of most individuals and emphasizes the basics of budgeting, saving, checking, investments, credit, the wise use of insurance, and paying and preparing income tax returns. After high school, students face a world filled with possibilities, and the more knowledge they can acquire, the higher the probability that their financial future will be secure. Students taking this course will learn to better prepare for their financial futures.

Mathematics

Calculus

Two Semesters

1 Credit

The Calculus course is a comprehensive look at the study of differential and integral calculus concepts including limits, derivative and integral computation, linearization, Riemann sums, the Fundamental Theorem of Calculus, and differential equations. Applications include graph analysis, linear motion, average value, area, volume, and growth and decay models.

Consumer Math

Two Semesters

1 Credit

This comprehensive review and study of arithmetic skills apply to both personal and vocational business opportunities. Topics include whole numbers, fractions, percentages, basic statistics, and graphs. Practical applications in finance, taxes, budgeting, banking and home ownership are provided.

Science

Earth Science

Two Semesters

1 Credit

This course begins with a discussion of the nature of science, the processes of science, and instruction on how to carry out scientific investigations in the lab and the field. The course then covers the properties of rocks and minerals and how to identify and classify them. Students will

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learn about geologic time, a history of life on Earth, and the development of the geologic time scale. The next parts of the course focus on Earth's tectonic, atmospheric, and ocean systems, including instruction on earthquakes, plate boundaries, properties of the atmosphere, properties of the oceans, and how human activities impact the atmosphere and the ocean. The second semester of the course begins with instruction in weathering and soils, followed by a discussion of river and groundwater systems, glaciers, shoreline features, and eolian systems. Students learn about the processes of weathering, how soils are natural resources, and the landscape features associated with rivers, glaciers, shorelines, and areas impacted by wind erosion. The course then covers mineral and energy resources, including fossil fuels, nuclear resources, and alternative energy sources. The course ends with a unit on the structure and composition of the solar system, with discussion of how Earth

Social Studies

Geography

Two Semesters

1 Credit

This Geography course will examine a broad range of geographical perspectives covering all of the major regions of the world. Each region will be reviewed in a similar structure in order for students to more clearly see the similarities and differences between each region. Specifically, the course will explore where each region is located along with its physical characteristics, including absolute and relative location, climate, and significant geographical features. The exploration will then continue on to look at each region from a cultural, economic, and political perspective, closely examining the human impact on each region from these perspectives as well as how human activities impact the environments of the region. This course is aligned to the national Geography Standards.

Technology

Computer Fundamentals

Two Semesters

1 Credit

In this introductory course, students will become familiar with the basic principles of a personal computer, including the internal hardware, the operating system, and software applications. Students will gain practice in using key applications such as Microsoft Word, Excel and PowerPoint as well as understand social and ethical issues around the Internet, information and security. In the first semester, the focus is on the fundamentals, learning and using the applications, and understanding the basic roles and responsibilities of the software, hardware and operating system. In the second semester, the focus is on gathering and analyzing data, and using the right tools and methods to collect and present data.

Digital Photography

One Semester

.5 Credit

***Required for first time online students**

In this one semester course, students will learn the basics of photographic composition and lighting, the basics of using a digital camera and the basics of preparing a digital darkroom. Students will also learn basic color theory and the fundamentals of image processing. This course is designed for the student who has no background in photography.

Game Design Syllabus

One Semester

.5 Credit

***Prerequisite: Computer Fundamentals or approval from Mrs. Ackley**

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This course will introduce students to the basic skills necessary for game design. They will study the various games in the industry and analyze their approach in terms design and development. The student will explore the processes and art of making game elements like story, levels, sound, user interfaces, and levels. This analysis will include an orientation to the gaming market and innovative techniques' impact on it. Finally, the student will merge all these elements into a functional prototype showing their understanding of the game design process.

Computer Programming I

Two Semesters

1 Credit

***Prerequisite: Geometry, Students should have advanced computer skills or approval from Mrs. Ackley**

How can you control the most powerful tool ever invented if you cannot speak its language? Computer Programming 1 is a two-semester course which enables students to learn two modern programming languages, Python and Java. The course teaches programming using real-world, practical examples. You will learn Python by controlling the motion and sensory capabilities of a robot. You will learn Java by manipulating graphics, images, and audio. Programming is easier than you think and perhaps best of all, you get to show what you know by choosing projects that are of interest to you. Major colleges and universities are now using this approach to teach introductory computer programming, so you will learn the skills necessary to tackle advanced work.

Web Design I

Two Semesters

1 Credit

***Prerequisite: Computer Fundamentals or approval from Mrs. Ackley**

The World Wide Web is not just for spectators. It's for people who can create effective, eye-catching Websites of their own. This course is for students who want to design Web pages that get attention. Students become Web design interns for a virtual company called Education Designs. Interns learn what it takes to work in the real world of Web design: Internet basics, HTML, and the file structure of a well-organized Web site. They learn to create visually interesting Web pages with clear text, complimentary colors, visual assets, and appealing designs. Students navigate the Internet to fill their Websites with useful and well-researched information.

Web Design II

Two Semesters

1 Credit

***Prerequisite: Web Design I**

A well-designed skyscraper is an impressive sight. A well-designed website is also an impressive site of another kind - the kind that reveals the advanced skills of an expert designer. This course takes you through the entire construction process from planning, to creating the structure, to adding the final special touches. In this course, you will learn how to create a storyboard or blueprint for your website. You will learn about website navigation, style sheets, graphic creation, digital image optimization, security, and server hosting. You will also learn how to work in teams, with specific tasks assigned to individual team members. You will use KompoZer for website creation and management. The purpose of this course is to equip you to be a master architect, contractor, and manager of a valuable property - property that communicates a message in an impressive way.

**Advanced Placement Courses and Credit Recovery course are also available.
Courses may change throughout the year.**