

2018-19
NEW YORK
MILLS
HIGH SCHOOL
COURSE
CATALOG

Table of Contents

Agriculture	2
Art.....	4
Business/Technology	6
English	9
Family & Consumer Science.....	14
Industrial Technology	16
Mathematics	19
Music	22
Physical Education	23
Science.....	25
Social Studies.....	30
World Languages	37
Academic & College Level Courses.....	38

AGRICULTURE

<p>Advanced Metals & Welding</p>	<p>Prerequisite: Introduction to Metals</p> <p>All students interested in MIG and TIG welding, plasma cutting, metal bending and project making should sign up for this class. The use of measurement tools and equipment will be emphasized, as will safety. You will design and write up detailed instructions for a metal project (technical writing). All students will do a metal project of their own choice that contains elements of welding, cutting sheet metal work or machining. Students taking this class should be interested in doing metal projects that contain elements of welding, and/or sheet metal working. Failure to do a project will result in failure of the course. Individual project design will constitute a large portion of class time.</p>
<p>Animal Studies</p>	<p>This course deals with the study of modern day practices used by livestock producers in managing their dairy, beef, sheep, hog, poultry and horse enterprises. Expect to understand cell theory, heredity, biological change, interdependence and behavior of animals and other organisms, and current concepts in animal science such as cloning, genetic engineering, nutrition etc. In addition, we will learn about genetics and reproduction, disease prevention and control, and analysis of management techniques used in the industry.</p> <p>Daily learning will include scientific experiments, use of the microscope in investigation, and dissection. Investigation through individual experiments along with collection and analyzation of data and drawing of conclusions will also be done.</p>
<p>Basic Electricity</p>	<p>This course is designed to be an introductory lab course in electricity and electronics. You will learn how to use various electronic precision measurement devices, how to assemble and design parallel series, series-parallel circuits, use of capacitors, resistors, catentimeters, and diodes, and AC and DC concepts.</p> <p>You will have the opportunity to design, assemble, and program a robot and program it to perform basic functions.</p> <p>Daily learning will include residential and farm wiring learning labs, using a demonstration building as the learning environment. The basic laws of electricity will be explored, with emphasis on Ohms Law and Watts Law. Finally, expect to explain, demonstrate, and apply principles of electrical safety.</p>
<p>Greenhouse management/Industry</p>	<p>Landscaping is a Horticulture class that emphasizes production horticulture, landscape design, landscaping processes, gardens, retaining walls, pavers, plant selection, plant identification, plant experiments, greenhouse work, and other aspects of the horticulture industry. It is an elective class and students must have passed Introduction to Horticulture or have instructor's approval. This class involves a lot of hands on learning along with outdoor work. Students that have allergies to dust, pollen and spring seasons should talk to the instructor prior to taking the class. This is a production class be prepared to get your hands DIRTY.</p>

Introduction to Metals & Welding	<p>Course Title: Introduction to Metals and Welding - 8 Grade Level: 9-12 Length of Course: Semester</p> <p>This course is a prerequisite for the advanced welding course. Various aspects of metal working will be explored. Major emphasis will be placed on welding and sheet metal. You will learn how to use oxyacetylene welding, oxyacetylene cutting, arc welding, MIG (wire-feed) welding, various sheet metal equipment, and other power and hand tools associated with metal working. Safety will be emphasized greatly in this class as you complete a mandatory project from a selection list. During the course some technical reading will be done, and this will help prepare you for the technical reading standard found in advanced welding.</p>
Machine Tool Technology	<p>Course Title: Machine Tool Technology - 9 Length of Course: Semester</p> <p>Grade Level: 10-12</p> <p>This course will involve the theory and operation of precision machine tool equipment. Lathe and vertical milling of aluminum and other metals. Careers and precision measurements will also be covered. Students considering entering the machine tools program at either CLC or Alex Tech will be given preference and MAY have the ability to take this class for college credit.</p>
Small Engines	<p>Course Title: Small Engines - 12 Grade Level: 10-12 Length of Course: Semester</p> <p>Tasks include disassembly and reassembly of a small engine, reading repair and technical manuals, and demonstration of ability to use specialized vocabulary and specialized resources. Daily lessons will center on working with small engines, the theory of operation and use of specialized tools, analysis of problems and preventive maintenance, selection, use, and operation of precision measuring equipment.</p>
Wild Life Management	<p>Course Title: Wildlife Management - 13 Grade Level: 10-12 Length of Course: Semester</p> <p>Wildlife and human interactions and conflicts are the issue of concern in Wildlife Management I. We will study how wildlife enhance, improve, and damage human lifestyles. Several hypothetical situations will provide the basis for learning through discussion and role playing.</p> <p>We will be working with the concept of hunting, hunting ethics, hunting morals, and create fishing poles. In addition, daily lessons will center on identification of birds, fish, mammals, and reptiles / amphibians as well as the interrelationships between wildlife and habitats. You will develop a habitat improvement plan as part of this course, as well as presentations on wildlife activities. Students who complete this class and pass the final test will be certified in advanced hunter's education.</p>
Technology & Agriculture	<p>Course Title: Technology & Agriculture Grade Level: 8</p> <p>Students will be given the opportunity to study and explore new technologies in agriculture. This course will encompass a broad range of agriculture interests including general livestock and the dairy industry. Basic shop skills in safety and welding will be taught to the students and they will be able to create projects in the shop area. The benefits and opportunities of being involved in the FFA program will be emphasized during class time.</p>

ART	
Digital Art & Photography	<p>Course Title: Digital Art (Photography) - 41 Grade level: 10-12 Length of course: Semester Class Limit: 20</p> <p>Photography will be our main emphasis in this course. It is designed to provide theory and practice in the use of digital cameras and how to edit using Photoshop. We will also use Flash to create our own animations. It will also involve field trips and guest speakers that explore various aspects of the photography industry and Digital Art careers.</p>
Exploring Art	<p>Course Title: Exploring Art - 42 Grade level: 9-12 Length of course: Semester Class Limit: 20</p> <p>In this course the student will draw different subjects such as still-life, landscape and portraits using a variety of media. You will have the opportunity to explore other areas in art, such as clay and sculpture. Even though the student is encouraged to develop his/her own style, different artists' techniques will be studied. You will be expected to produce visual images and critique art using the elements of art and principles of design. You will also keep a weekly sketch book.</p>
Flash Gaming	<p>Course Title: Flash Gaming - 43 Grade level: 11-12 Length of Course: Semester Limit of 15</p> <p>The Students will be introduced to game programming by learning how to use Flash to create on-line games. You will NOT be playing games; you will be making them by design and writing codes. You will also learn the history of gaming as well as the future of the industry.</p>
Graphics	<p>Course Title: Graphics - 44 Grade level: 10-12 Length of Course: Semester Class Limit: 20</p> <p>Graphics will give students the opportunity to learn various lettering styles, lay-out methods of advertisements and logo design. Some of the graphic areas they will be exploring will be illustration, advertisement, designing clip art and more. The software that will be use in class will be Illustrator and Photoshop. The class will also use hypothetical situations where the student designs the product and the logo. When graphics is over, you will be able to use different lettering styles to design posters, logos and other projects, design a new product with its logo, illustrate a book, develop an advertisement for a business and create projects using various media. You will also keep a weekly digital sketch book.</p>
Mixed Media Arts	<p>Course title: Mixed Media Art - 45 Grade level: 10-12 Length of course: Semester Class Limit: 20</p> <p>In mixed media, you will have an opportunity to explore using 2 or more media at a time. You will expand your knowledge of watercolors, chalk, colored pencils and more. You will experiment with different types of media to create original works of art in both two and three-dimensional media. A weekly sketch book will become a record of your thoughts and ideas.</p>

Painting	<p>Course Title: Painting - 46 Grade level: 10-12 Length of course: Semester Class Limit: 15</p> <p>Students will further their ability and understanding of 2-D art. Students will develop a strong sense of design through decision-making and problem-solving projects. We will be developing painting skills and techniques using Acrylic and Watercolor paints as well as Color Theory. Students will explore the style of many artists throughout history, while developing their own paintings. The subjects considered and studied are, landscapes, still-life, the figure and abstraction. There is a material fee of \$30.00</p>
Sculpture / Pottery	<p>Course Title: Sculpture/Pottery - 47 Grade level: 10-12 Length of course: Semester Class Limit: 20</p> <p>In sculpture, the student will work in the subtractive, substitution and manipulation methods. Some of the media that you will get to work with are plaster, clay and papier mache'. Different artists and styles will be studied and critiqued. You will create armatures and molds to help you create original pieces of art. You will also be expected to do a weekly sketch book. Critique will be done to evaluate your own art work as well as others.</p>
Video Arts	<p>Course title: Video Arts - 48 Grade level: 11-12 Length of course: Semester Prerequisite: English 10 and teacher approval required</p> <p>Video arts will give students a general understanding of the basic principles of working in a TV studio. Students will learn about the history of Television and Film. They will be learning the basics of filming, editing and creative applications of computer editing. They will also express themselves through different types of media art forms; Photoshop, Movie maker and Adobe Premiere. They will be critiquing television shows, commercials, etc.</p>
Creative Life	<p>This course is designed to provide students with an opportunity to explore their CREATIVITY through a cross curriculum style. Projects are integrated throughout the course to provide authentic applications in mixed media, food presentation, fashion, design basics, decorating, interior design, furniture styles and design.</p>
3D Technology & Design	<p>Ever wonder how to develop your ideas? Fusion 360 and this course will help you to quickly develop quality projects. In this course you will learn how to sculpt your idea, then move to parts and assembly modeling, and, as a final step, create drawings, renderings and prepare for manufacturing on a 3D printer.</p>

BUSINESS/TECHNOLOGY

<p>Computer Applications I</p>	<p>Course Title: **Computer Applications I - 84 Grade Level: 10 Length of Course: One Semester</p> <p>This course offers an introductory exposure to the many uses and aspects of computer technology.</p> <p>Students acquire technology skills while learning word processing fundamentals and explore the processes of using technology for research, communication, and information processing user Microsoft Office 2010.</p> <p>The software programs used are; Microsoft Word, Excel, Access, and Powerpoint. Learn to feel comfortable and confident using the current technology used in college and in the work force.</p>
<p>Desktop Publishing</p>	<p>Course Title: Desktop Publishing - 85 Grade Level: 9-12 Length of Course: Semester</p> <p>Desktop publishing is the use of the computer and specialized software to create documents for desktop or commercial printing for all types of businesses. Desktop publishing software will produce many different documents such as newsletters, brochures, web sites, catalogs, business cards, flyers, certificates, greeting cards, and other publications that were once created manually.</p> <p>In this course you will use Microsoft Publisher 2010 for creating a publication from scratch or use one of the hundreds of business and personal designs available in Publisher. Desktop publishing software can be found in both graphic design firms and many other types of businesses.</p>
<p>Sports Marketing</p>	<p>Course Title: Sports Marketing - 89 Grade Level: 9-12 Length of Course: Semester</p> <p>This course will help students develop a thorough understanding of the marketing concepts and theories that apply to sports industry and sporting events. The areas this course will cover include basic marketing, target marketing and segmentation, sponsorship, event marketing, promotions, sponsorship proposals, and sports marketing plans.</p> <p>Students will explore research and learn the use of sports to market products and capitalize on the popularity of sports. We will focus on the value of sports marketing, its demographics and gross impression to design our very own portfolio. A wide range of software and equipment will be used. Students will produce an electronic portfolio reflecting on a sports team of their choice, using marketing techniques, advertising and design tools.</p>
<p>Yearbook I</p>	<p>Course Title: Yearbook I- 91 Grade Level: 9-12 Length of Course: Semester</p> <ul style="list-style-type: none">* The NYM H.S. Yearbook course is a semester long course designed to plan, create, publish and distribute the school's yearbook.* Students will learn basic elements of design, layout and photography.* Become familiar with the Online Yearbook software program and Photoshop.* Choose templates and layouts to complete pages of the yearbook.

	<ul style="list-style-type: none"> * Decide on photos, content text and design of each page. * Sell ads in the business community. * Distribute the yearbook to the school population. * And most of all, HAVE FUN!
Computerized Accounting I	<p>If you are interested in learning what accounting is and have an interested in business, then this class is for you. You will definitely want to take this class before going to college for any business related degree. This ACCOUNTING I course will provide background information and hands-on experience in planning recording, analyzing, and interpreting financial information. An accounting system will be used to plan, provide and organize all accounting records.</p> <p>** Articulation agreements with both Accounting I & II courses taken with the (MSCTC) Minnesota State Community & Technical College (campuses in Fergus Falls, Moorhead, and Detroit Lakes & Wadena), Northwest Technical College (campus in Bemidji) and Northland Community & Technical College (campuses in Thief River Falls & East Grand Forks) have been approved.</p>
Computerized Accounting II	<p>If you are considering business education at a post-secondary institution, you will need to have a proficiency level of accounting that this class will provide. This course will allow you to go beyond the level of using accounting on a personal level and earn college credit.</p> <p>The second level of accounting deals with business practices that relate to a merchandising business that is operated as a partnership. To enhance the learning of principles taught during the course, the student will complete an advanced level business simulation practice. This course can be taken as an Independent Study.</p> <p>** Articulation agreements with both Accounting I & II courses taken with the (MSCTC) Minnesota State Community & Technical College (campuses in Fergus Falls, Moorhead, and Detroit Lakes & Wadena), Northwest Technical College (campus in Bemidji) and Northland Community & Technical College (campuses in Thief River Falls & East Grand Forks) have been approved.</p>
College Computer Application II	<p>This course can be taken as an Independent Study.</p> <p>This is an advanced college level class continue 2010 Microsoft Word, Excel, Access and Powerpoint. Feel confident using the current technology used in college and in the work force. To be proficient in Office you will be workplace ready and prepared for college expectations.</p>
Business & Personal Finance	<p>You will learn practical information about everyday living along with learning business aspects. Some colleges are requiring students to take a Personal Finance class in college or before entering college therefore, this class will prepare you.</p> <p>Students will develop skills in: budgeting, checking and savings, banking, investing, credit, owning a home, buying and selling, insurance, and risk management. With financial decisions to be made now and in the future this course will help students become familiar with the strategies of choosing the best financial decision.</p>
Internet & Web Design	<p>This course is designed to provide students with the knowledge and skills to develop web pages with effective graphic presentation. Have fun being creative to design your own personal and professional web sites. Students will learn to plan and layout websites using Adobe Dreamweaver and Fireworks.</p>

	<p>Students will learn how to produce and manage web pages and sites. This class will offer basic web design principles, HTML fundamentals, and web site file structure. Students will learn web page programming standards and how to incorporate features such as audio, video, graphics, and animation to enhance web pages. This class will be using Adobe CS6 (Dreamweaver, Photoshop, Flash, Illustrator, Fireworks) and other web authoring tools.</p>
Yearbook II	<p>Course Title: Yearbook II - 100 Grade Level: 9-12 Length of Course: Semester</p> <ul style="list-style-type: none"> * The NYM High School Yearbook course is a semester long course designed to plan, create, publish and distribute the school's yearbook. * Students will learn basic elements of design, layout and photography. * Become familiar with the Online Yearbook software program and Photoshop. * Choose templates and layouts to complete pages of the yearbook. * Decide on photos, content text and design of each page. * Sell ads in the business community. * Distribute the yearbook to the school population. * And most of all, HAVE FUN!
Software Engineering	<p>Course Title: Software Engineering & Web Programming - 92 Grade Level: 9-12 Length of Course: Semester</p> <p>Are you interested in learning a variety of cool programming languages? Than this is your opportunity to choose from many different options. Your choice! Students with have the option to choose and explore the following programming and engineering systems: Advanced HTML, Web CSS, Javascript, Perl, Visual Basic, Microsoft C++, Java Applets, XML, DHTML, Database design, research FORTRAN, COBOL, AJAX, MySQL, Oracle, etc. Learn and design projects using your favorite programming language and tools.</p>
Mechatronics	<p>Course Title: Mechatronics Grade Level: 11-12 Length of Course: Semester Class Limit: 15</p> <p>This will be a fast-paced, tech-oriented course that focuses on specific topics (all of which build on each other), resulting in a broad exposure to many different areas of study in technology. You will learn the parts of and then build a functioning computer, use that computer to learn basic coding (Python, C, Structured Text), then design, build, and program machines to battle each other in a competition against your fellow classmates. During this process, you will also learn about concepts such as basic electricity and electrical circuits, formal logic, mechanical engineering, fluid dynamics, computer networking and communication protocols, and so many others. Again, this course is designed to introduce you to a wide variety of technical career specializations; even if you decide these fields aren't what you're interested in, you will gain basic working knowledge of tech that will help you in your future.</p>

ENGLISH

English 9 I

Course Title: English 9 I - 124
Length of Course: Semester

Daily learning will consist of short stories and other selected works of non-fiction and poetry. Writing developmental work will consist of journaling to show the knowledge and capability of applying the Six Traits + One traits of writing. Writing will be ongoing throughout the year will include an analysis and a variety of assignments where ideas and opinions are supported by fact/evidence. Outline skills in both writing and speech will be stressed. Interpersonal communication in writing and oral communication will also be stressed.

Although 9th graders no longer participate in Accelerated Reader, independent reading will be reinforced.

English 9 II

Course Title: English 9 II -125
Length of Course: Semester

Daily learning will consist of short stories and other selected works of non-fiction and poetry. Writing developmental work will consist of journaling to show the knowledge and capability of applying the Six Traits + One traits of writing. Writing will be ongoing throughout the year will include an analysis and a variety of assignments where ideas and opinions are supported by fact/evidence. Outline skills in both writing and speech will be stressed. Interpersonal communication in writing and oral communication will also be stressed.

Emphasis areas of study will be drama Romeo and Juliet, Beauty or Lord of the Flies, the process of formal and informal speech, with continuous reinforcement of spelling, usage, grammar, and vocabulary.

Students will complete an extensive research paper. In addition, we will study technical writing and reading of non-fiction and fiction. Writing will be practiced, and skills will be developed through a variety of written assignments. Finally, expect growth in speaking skills as you practice oral communication.

Although 9th graders no longer participate in Accelerated Reader, independent reading will be reinforced.

American Literature I

Course Title: English 10 I & II (American Literature) - 126 & 127
Length of Course: Semesters I & II
Prerequisite: Successful completion of English 9 I & II

English 10 I and II further develop your language arts skills. Learning activities in English 10 I will strengthen your academic and technical writing skills. In English 10, you will write for a variety of purposes. As a writer, you will be asked to participate in writing groups in order to help your classmates become better writers. All writing is evaluated with the NCREL six-trait writing system and your knowledge and use of the process of writing: generate/percolate, draft, conference, revise, edit, and publish.

	<p>In addition, the learning activities will develop your research skills. Your speaking skills will be further developed through your presentation to the entire class.</p> <p>As a member of English 10, you will study American literature in conjunction with American History. This is a great opportunity to further your understanding of your country's authors and the rich heritage we have as a literary nation. All types of literature will be studied. You will be assigned regular independent reading projects to analyze different aspects of a novel.</p> <p>You will study at least one major American novel, such as <i>To Kill a Mockingbird</i> and one American play, such as <i>The Crucible</i>. By the time you have completed this course, you should be able to understand and use approaches to analyzing and interpreting literature.</p>
<p>American Literature II</p>	<p>Course Title: English 10 I & II (American Literature) - 126 & 127 Length of Course: Semesters I & II Prerequisite: Successful completion of English 9 I & II</p> <p>English 10 I and II further develop your language arts skills. Learning activities in English 10 I will strengthen your academic and technical writing skills. In English 10, you will write for a variety of purposes. As a writer, you will be asked to participate in writing groups in order to help your classmates become better writers. All writing is evaluated with the NCREL six-trait writing system and your knowledge and use of the process of writing: generate/percolate, draft, conference, revise, edit, and publish.</p> <p>In addition, the learning activities will develop your research skills. Your speaking skills will be further developed through your presentation to the entire class.</p> <p>As a member of English 10, you will study American literature in conjunction with American History. This is a great opportunity to further your understanding of your country's authors and the rich heritage we have as a literary nation. All types of literature will be studied. You will be assigned regular independent reading projects to analyze different aspects of a novel.</p> <p>You will study at least one major American novel, such as <i>To Kill a Mockingbird</i> and one American play, such as <i>The Crucible</i>. By the time you have completed this course, you should be able to understand and use approaches to analyzing and interpreting literature.</p>
<p>Multicultural Literature I</p>	<p>Course Title: English 11 I & II (Multicultural Literature) - 128 & 129 Length of Course: Semesters I & II Prerequisite: Successful completion of English 10 I & II</p> <p>Daily learning will consist of short stories, poetry, non-fiction, one novel (<i>Kite Runner</i>), as well as multiple works from different cultures.</p> <p>Developmental work will consist of an individual presentation on an analysis paper written about an independent reading book from another culture, as well as journaling to show knowledge and capability of applying the writing process and the Six Traits + One Traits of writing. Writing will be ongoing throughout the year with narrative and critical works on other cultures and their literature based on your research. Outline skills in both writing and speech will be stressed.</p>

	<p>The following areas will also be taught and/or reinforced: The use of technology will be incorporated through various research and writing activities. Emphasis areas of study will be drama from a multicultural author, a novel, along with continuous reinforcement of spelling, usage, grammar, vocabulary, and writing.</p> <p>As a result of hard work in English 11 I, you will understand basic tenets and develop advanced skills in oral and written communication, acquire and express an appreciation of multicultural works and authors, demonstrate reading skills through oral and silent reading assignments, recognize the value of all areas of English as a worthwhile learning activity, use a variety of writing skills, and know and apply grammar terminology and rules.</p>
<p>Multicultural Literature II</p>	<p>Course Title: English 11 I & II (Multicultural Literature) - 128 & 129 Length of Course: Semesters I & II Prerequisite: Successful completion of English 10 I & II</p> <p>Daily learning will consist of short stories, poetry, non-fiction, one novels (Kite Runner), as well as multiple works from different cultures.</p> <p>Developmental work will consist of an individual presentation on an analysis paper written about an independent reading book from another culture, as well as journaling to show knowledge and capability of applying the writing process and the Six Traits + One Traits of writing. Writing will be ongoing throughout the year with narrative and critical works on other cultures and their literature based on your research. Outline skills in both writing and speech will be stressed.</p> <p>The following areas will also be taught and/or reinforced: The use of technology will be incorporated through various research and writing activities. Emphasis areas of study will be drama from a multicultural author, a novel, along with continuous reinforcement of spelling, usage, grammar, vocabulary, and writing.</p> <p>As a result of hard work in English 11 I, you will understand basic tenets and develop advanced skills in oral and written communication, acquire and express an appreciation of multicultural works and authors, demonstrate reading skills through oral and silent reading assignments, recognize the value of all areas of English as a worthwhile learning activity, use a variety of writing skills, and know and apply grammar terminology and rules.</p>
<p>British Literature I</p>	<p>Course Title: English 12 I & II (British Literature) - 130 & 131 Length of Course: Semesters I & II Prerequisite: Successful completion of English 11 I & II</p> <p>Daily learning will consist of short stories, poetry, nonfiction, drama, as well as other works from the British literature canon.</p> <p>You will also write various essays and creative writings and refine your skills with writer's notebook entries, the writing process and NCREL Six Traits+One.</p> <p>As a result of your concerted effort in English 12, you will understand basic tenets and develop advanced skills in oral and written communication, acquire and express an appreciation of world literature and authors, demonstrate reading skills through oral and</p>

	<p>silent reading assignments, recognize the value of all areas of English as necessary to lifelong learning, use a variety of writing skills, and know and apply grammar/usage skills.</p> <p>Additional work will include assignments in daily language, vocabulary, completion of an independent reading contract and consistent progress toward an independent project/presentation highlighting your understanding of literary concepts.</p> <p>A final individual presentation successfully demonstrating your proficiency in English will be required.</p>
British Literature II	<p>Course Title: English 12 I & II (British Literature) - 130 & 131 Length of Course: Semesters I & II Prerequisite: Successful completion of English 11 I & II</p> <p>Daily learning will consist of short stories, poetry, nonfiction, drama, as well as other works from the British literature canon.</p> <p>You will also write various essays and creative writings and refine your skills with writer's notebook entries, the writing process and NCREL Six Traits+One.</p> <p>As a result of your concerted effort in English 12, you will understand basic tenets and develop advanced skills in oral and written communication, acquire and express an appreciation of world literature and authors, demonstrate reading skills through oral and silent reading assignments, recognize the value of all areas of English as necessary to lifelong learning, use a variety of writing skills, and know and apply grammar/usage skills.</p> <p>Additional work will include assignments in daily language, vocabulary, completion of an independent reading contract and consistent progress toward an independent project/presentation highlighting your understanding of literary concepts.</p> <p>A final individual presentation successfully demonstrating your proficiency in English will be required.</p>
Film Studies	<p>Course Title: Film Study - 132 Length of Course: Semester</p> <p>We will begin this course with a brief overview of the film industry. Then, throughout the semester we will study the different elements of films through screenings of various clips, behind-the-scenes footage and complete movies. Students will analyze various elements of film through discussion, journaling, written analysis and reviews. The intention of this class is to help students develop a more purposeful method of viewing and responding to the films they watch.</p>
Media Communications	<p>Clear writing, an ability to prioritize and synthesize information, performance under deadline pressure, and producing news stories for broadcast and the Web are hallmarks of the modern-day broadcast journalist. Students in this course will learn the fundamental skills and techniques involved in writing and producing radio and television news stories. Students will learn broadcast writing style, production techniques for radio voices and packages as well as TV voice-overs.</p>
Legend, Lore, and Myth	<p>This elective will provide students with a global view of mythology. Students will explore the universal qualities of our search for meaning and understanding. Readings will include Greek, Roman, Norse, Arthurian, and modern mythologies. Students will read selections and view films as a class. Afterwards, students will respond through discussion, writing, and individual and group projects.</p>

Short Stories	Horror and fiction and fantasy, oh my! This elective provides students with the opportunity to read classic and modern short stories, in addition to writing their own creative short stories. The short story selections include works by noted American authors, and acclaimed world authors. Thematic units include works of horror, detective fiction, psychological realism, magical realism, fantasy, and science fiction. After reading, students will respond to the readings through writing, group discussion, and individual and group projects. The writing of short stories will take place throughout the semester, and will involve multiple genres.
Creative Writing	Finally, a chance to show your true creative potential! Students in this course will experiment with two literary genres, poetry and fiction. Students will use imagination and creativity within each daily activity and writing opportunity. The emphasis will be on generating a lot of raw material, getting familiar with some of the basic strategies for reading and talking about our writing as well as others' writing.
Literary Topics	This course is designed specifically geared towards teenagers' interests. This elective will involve reading and evaluating a wide range of literature written by current authors for or read by teenagers. Students will read and respond to self-selected individual novels. We will also explore many young adult novels as a class; genres include but are not limited to science fiction, fantasy, contemporary realistic fiction, adventure, mystery, and humor.
Holocaust thru Film and Literature	<p>A study of the Holocaust through a variety of mediums, including movies, novels, poetry, historical documents, etc. in order to gain a better understanding of the ideas presented by the Holocaust as a significant event in world history. Students will study the origins and development of the Holocaust, as well as how film and literature impact the understanding of the Holocaust.</p> <p>Possible units of study include: Literature (full text or excerpts) Night by Elie Wiesel Maus (a Graphic Novel) by Art Spiegelman The Diary of a Young Girl by Anne Frank The Book Thief by Markus Zusak</p> <p>Films: The Boy in Striped Pajamas Schindler's List Life is Beautiful</p>

FAMILY AND CONSUMER SCIENCE

<p>Fashion Design</p>	<p>Course Title: Fashion Design - 164 Grade Level: 10-12 Length of Course: Semester</p> <p>Fashion Design is a course designed to take the student on a "behind-the-scenes" tour of clothing construction, textiles, and the Fashion Design Industry. Students begin with a review of basic clothing construction techniques and a look at how fashion has evolved throughout history. The student will explore facets of fashion design including the opportunity to try his/her hand at creating new fashions. An in-depth unit on textile manufacturing provides an interesting look at how fabrics evolve. Lastly, the class will study the retail industry and fashion trends.</p>
<p>Independent Living Skills</p>	<p>Course Title: Independent Living Skills - 167 Grade Level: 10-12 Length of Course: Semester</p> <p>Independent Living Skills is a course that focuses on polishing the skills needed for being self-sufficient and living on your own. Students will study the values and needs of a young household including: sound buying principles, issues involved in renting or buying a home, personal finance, insurance, and financial planning. Students will apply the fundamentals of personal financial management through informed decision-making. This course is valuable for anyone planning to live on their own. Learning takes place by discussing needs of a new household, creating plans for major purchases, investigating different aspects of financial planning, evaluating personal banking services, analyzing a household budget, using wise shopping practices for household and personal items, and interpreting consumer rights and responsibilities.</p>
<p>Creative Cookery</p>	<p>Course Title: Creative Cookery - 162 Grade Level: 10-12 Length of Course: Semester Prerequisite: Foods</p> <p>Creative Cookery is a course designed for students who like to work with food and want to learn new and interesting ways to prepare and serve meals. Topics of focus will include: convenience foods, supermarket savvy, foods from around the world, microwave cooking, putting appliances to the test, food presentation, and cooking for wellness (to name a few). Students can expect to leave this course with a base of knowledge which will allow them to create meals of interest and cook with confidence in the kitchen.</p>
<p>Health 9</p>	<p>Course Title: Health 9 - 301 Grade Level: 9 Length of Course: Semester</p> <p>The package is entitled 'Healthy for Life'. The student will use the decision-making model, study several health issues/problems and make a decision on each. The student will make informed decisions in the areas of healthful nutrition/dietary practices, tobacco use, drug/alcohol use, intentional and unintentional injuries, HIV/STD/unintentional pregnancies and physical fitness. The systems of the human body will be studied at the onset of the course. The students will be offered the American Red Cross CPR/ AED instruction and certification.</p>
<p>Child Development</p>	<p>Course Title: Child Development -161 Grade Level: 10-12 Length of Course: Semester Child Development is a study of Human Development from conception to toddlerhood. Students will explore preparation for parenthood through a complete study of pregnancy and the delivery of a baby. Some highlights include: proper baby care skills, knowledge of what is 'normal' in newborn behaviors, and exposure to careers involving interaction with children in a preschool setting. This course is valuable for any future</p>

INDUSTRIAL TECHNOLOGY

Cabinet Making I	<p>Course Title: Cabinetmaking I -201 Grade Level: 10-12 Length of Course: Semester Prerequisite: Intro to woods</p> <p>Students will be introduced to the hand tools, power tools and machines used in rough carpentry and cabinetmaking. Students will select a project, which can either be in rough carpentry or cabinetmaking. Students are required to have a drawing or blueprint, bill of materials, and a plan of procedure. Students enrolled in both I and II can carry larger project over into cabinetmaking II. All projects must be approved by instructor before construction begins. The standard will involve the ability to read technical information and construct from it.</p>
Cabinet Making II	<p>Course Title: Cabinetmaking II - 202 Length of Course: Semester Prerequisite: Cabinetmaking I</p> <p>This course is a more advanced course for the student who is seriously interested in cabinetmaking and carpentry as an occupation. Students will select projects considered advanced. Projects will cost approximately \$150, half of which must be paid within one week of the start of the course. Your projects will involve technical reading as you employ the more advanced skills for using power tools, apply joints and fastening methods, use proper finishing methods, develop further understanding of occupations in relation to shop work, and recognize materials used in the construction industry.</p>
Carpentry I	<p>Course Title: Carpentry I - 203 Grade Level: 10-12 Length of Course: Semester Prerequisite: Intro to woods</p> <p>Learning experiences concerned with site development, masonry, rough framing carpentry, and finishing trades will be covered. Specific areas include: material and fastening devices, form work, scaffolds, framing principles, roof framing, stair framing, exterior finish, insulation and dry wall. Students will work out of the Modern Carpentry textbook and workbook. They will design and draft a set of house plans and make blueprints for a model home they will begin during Carpentry I and complete in Carpentry II.</p> <p>Expect to learn to operate and reading a transit, demonstrate correct use of hand and power tools, read blueprints, estimate building costs, draw house plans, and construct a model home.</p>
Carpentry II	<p>Course Title: Carpentry II - 204 Length of Course: Semester Prerequisite: Carpentry I</p> <p>Learning experiences concerned with site development, masonry, rough framing carpentry, and finishing trades will be covered. Specific areas include: material and fastening devices, form work, scaffolds, framing principles, roof framing, stair framing, exterior finish, insulation and dry wall. Students will complete the model homes they started in Carpentry I. They will build a construction project chosen by the instructor - wood stool, sawhorses, picnic table, toolbox. They will work on building projects - storage sheds, fish houses, small garages. Projects will vary. We will review skills mentioned above, as well as construct a stool and storage shed.</p>
Introduction to Drafting / CAD	<p>Course Title: Intro to Drafting/CAD - 205 Grade Level: 9-12 Length of Course: Semester Prerequisite: C or Higher in JH drafting</p>

	<p>Drafting 9 is a mechanical and architectural drafting class in which students are introduced to both manual and computer aided drafting. The mechanical unit is a continuation of the 8th grade mechanical drawing in which students continue into more complex mechanical drafting skills. The architectural unit consists of instruction in basic architectural drafting skills. Students apply their skills by designing and drafting a garage, lake cabin, and a house of their own design. Through these designs students will demonstrate their growing skill of understanding and using the terms, symbols, and language of drafting.</p>
Introduction to Woods	<p>Course Title: Intro to Woods - 206 Grade Level: 9-12 Length of Course: Semester</p> <p>Intro to woods is a woodworking class in which students will be instructed on the safety and use of all the major woodworking machines. Students will make a required project selected by the instructor. Upon completion of the required project, students choose individualized project(s) with instructor approval. A drawing of a project, a bill of materials and a plan of procedure are required in making all projects.</p> <p>You will learn to develop skill to use all power tools and hand tools, demonstrate shop safety, develop some understanding of hardware and fasteners used in wood projects, learn to identify wood (hard woods and soft woods), practice proper clean-up procedures, prepare a bill of material sheet, and calculate board feet.</p>
Woodshop Manufacturing	<p>Course Title: Woodshop Manufacturing - 207 Grade Level: 10-12 Length of Course: Semester</p> <p>This course is designed to give practical experience in a mass manufactured product. Each student will be involved in the making/reading of plans, organization and the production of a product. Any student with potential careers in Industrial Distribution, Industrial Management, Carpentry, Technology Education, Architecture, Automotive, Drafting, Cabinetmaking or any other industrial trade should consider this course. Students will have the option to buy the class product at cost. Prices may vary from \$25-\$150 depending on the class choice of project. Students wishing to repeat this course must have the permission of the instructor and Principal. The class participants will determine the type of project to be made. Here is a partial list of the type of projects that will be manufactured: display cabinets, china cabinets, roll top desks, deacon's benches, tables and cedar chest.</p>
Blueprint Reading	<p>This course provides the student with a working knowledge of blueprints and specifications. The student gains an understanding of blueprints, then interprets and applies this knowledge to job situations.</p> <p>** Students have the potential to earn technical credit for this class. There is currently an agreement with M State Detroit Lakes.</p> <p>Competencies: Define and describe plot plans and floor plans Define and describe elevations Describe the architect scale Describe symbols and abbreviations Explain the Title Block Explain how window and door details are used</p>

	<p>Describe roof construction Describe line types and use List Styles and information on roofs Define and List types of working drawings Explain Dimensioning Identify various types of windows and doors</p>
Engineering Graphics	<p>The course introduces and develops basic skills in drawing, lettering, orthographic projection, sections and dimensioning. This course will also apply the basic fundamentals of pictorial drawing, including isometric, oblique, perspective, shade and shadow, and freehand sketching.</p> <p>** Students have the potential to earn technical credit for this class. There is currently an agreement with M State Detroit Lakes.</p> <p>Competencies: Utilize drafting equipment. Apply standard linework. Apply dimension standards. Produce sectional drawings. Apply lettering styles and methods. Produce pictorial drawings. Apply multiple measurement techniques. Produce shop drawings. Produce detail drawings.</p>
Building Trades	<p>Students will gain insight and practical skills in the area of building trades, construction and home improvement. With a strong emphasis in residential carpentry, students will study safety procedures, construction math skills, hand tools, power and pneumatic tools, plumbing applications, electrical wiring applications and finishing applications. Students will complete classroom and hands on project based activities in the areas listed above. Upon successful completion of this course, students will have skills needed for pursuing construction related careers or to obtain employment in carpentry. Students will spend time in the classroom for related information, and participate in construction of a house from start to finish.</p>

	functions, and techniques of integration.
Chance and Data	<p>Course Title: Chance & Data - 246 Grade Level: 10-11 Length of Course: 1 Semester Prerequisite: Passing grade in Algebra II</p> <p>This course is designed to enable students to grasp important concepts in statistics. Daily work will consist of measures of central tendencies, variations, histograms, frequency distributions, normal distributions, and standard deviation. This course will bring in examples from common everyday life. Nearly all types of careers outside of High School and College will be represented.</p>
Geometry I	<p>Course Title: Geometry I - 248 Grade Level: 10 Length of Course: 1 Semester Prerequisite: Passing grade in Algebra II</p> <p>This course includes topics such as: essentials of geometry, reasoning and proof, parallel and perpendicular lines, congruent triangles, relationships within triangles, and similarity.</p>
Geometry II	<p>Course Title: Geometry II - 249 Grade Level: 10 Length of Course: 1 Semester Prerequisite: Passing grade in Geometry 1</p> <p>This course includes topics such as: right triangles and trigonometry, quadrilaterals, properties of transformations, properties of circles, measuring length and area, and surface area and volume of solids.</p>
Trigonometry Intro to Calculus	<p>Course Title: Trigonometry/Intro to Calculus - 252 Grade Level: 12 Length of Course: 1 Semester Prerequisite: C average in previous math classes Passing grade: Advanced Algebra</p> <p>This course is broke into two sections.</p> <p>In the first section we will study the basic concepts of trigonometry, learning to solve right triangles, using trigonometric functions, solve oblique triangles using the law of sines and cosines, and the study of vectors, including the addition and subtraction of vectors, and navigation problems.</p> <p>Throughout the course you will be working on the standards which are to understand the properties of the standard trigonometric functions and apply them to real-world and mathematical problems, especially geometrical problems and develop increases mastery of geometric proof methodology.</p> <p>In the second section we will study functions and graphs, limits and the derivative as it applies to calculus.</p>
MATH 1115 Functions/Trigonometry 4 4/0/0	Meets MnTC Goal Areas 2 and 4. This course includes trigonometric functions, right triangle trigonometry, radian measure and circular functions, identities, equation, inverse functions, oblique triangles, complex numbers,

<p>MATH 1213 Introduction to Statistics 4 4/0/0</p>	<p>MATH 1213 Introduction to Statistics 4 4/0/0</p> <p>Meets MnTC Goal Areas 2 and 4. Topics include data summary, frequency distributions, plots, graphs, measures of central tendency, variation, probabilities, probability distributions and confidence intervals. Hypothesis testing of means, proportions and variances will be conducted using the z-test, t-test, chi square-test, f-test and ANOVA.</p> <p>Optional topics may include non parametric statistics, sampling and simulation.</p> <p>Prerequisite: MATH1114</p>
<p>MATH 1134 Calculus I 5 5/0/0</p>	<p>Meets MnTC Goal Areas 2 and 4. This course includes limits and continuity, derivatives, definite and indefinite integrals of algebraic, trigonometric, exponential and logarithmic functions, and applications of the derivative and definite integral.</p> <p>Prerequisite: MATH 1115</p>
<p>MATH 1116 College Trigonometry</p>	<p>Meets MnTC Goal Areas 2 and 4.</p> <p>Topics include trigonometric functions, right triangle trigonometry, radian measure and circular functions, identities, equations, inverse functions, laws of cosines and sines. Optional topics may include complex numbers, vectors and polar coordinates.</p> <p>prereq - Math 1114, College Algebra</p>

MUSIC

Senior Band I & II

Course Title: Senior High Band I & II

Grade Level: 9-12

Length of Course: Semesters I & II

Prerequisite: successful completion of Junior High Band I & II

Senior High Band is a performance-based course in the study of instrumental music. Building on musical skills and knowledge developed in Junior High Band, students in Senior High Band will rehearse and perform concert band and wind ensemble literature ranging in difficulty from medium to advanced. While the main focus of Senior High Band is instrumental performance, students will also develop and demonstrate the ability to interpret and analyze music and musical performances in a variety of contexts. Senior High Band is a co-curricular subject. This means that performances outside of regular class time will be reflected in the student's final grade. These performances include concerts, pep bands, graduation, Memorial Day, and large-group contest. Participation in Marching Band is strongly encouraged for all students enrolled in Senior High Band. Jazz Band, Pit Band, and Solo/Ensemble Contest are additional opportunities for musical performance available to students in Senior High Band.

Senior Choir I & II

Senior Choir is a course which focuses on the performance of a varied repertoire of SATB and SAB choral literature. While preparing for each performance, the student will work to improve independent musical skills and meet the current music standards set by the Minnesota Department of Education through score analysis and discussion as well as sight singing and music theory activities. The students will also have the opportunity to work on personal musical skill development by performing in an ensemble or as a soloist at the subsection contest. The required performances include three concerts, large group contest and graduation.

PHYSICAL EDUCATION

Life Sports	<p>Course Title: Life Sports - 302 Grade Level 10-12 Length of Course: Semester</p> <p>Life Sports is a physical activity course that focuses on activities and sports that are able to be played over a prolonged period of time or even a lifetime. These activities will be individual, partner, and group orientated so that a variety of activities and situations are presented. The main focus of this class is to educate and encourage staying active in everyday life and to promote a variety of activities that will allow the individual to do so. This is a physical education course that incorporates the fitness center into its weekly plans, so therefore each student will participate in cardiovascular and strength training exercises while working towards individual goals set at the beginning of the semester.</p>
Personal Fitness	<p>Course Title: Personal Fitness - 303 Grade Level 10-12 Length of Course: Semester</p> <p>Personal Fitness is a course designed for individual self improvement. Students will have a personal file and set individual goals to work towards as they are active in the Fitness Center Mondays and Fridays. On Tuesdays and Thursdays students will go through a stations course that includes but is not limited to: plyometrics, strength training, agility and quickness drills, ab work stations, and explosion drills. At the end of the block on these days, students will have the opportunity to participate in cool down activities in the gym to provide the students the opportunity to both cool down and have fun while participating in a variety of activities. Wednesdays will be an activity day where the students will be active throughout the course of the hour performing different skills, games, and activities. The purpose of this course is to improve individual physical fitness levels and to stress the importance and benefits of being and continuing to be physically active.</p>
Phy Ed 9	<p>Course Title: 9th Grade Physical Education - 304 Grade Level 9-10 Length of course: Semester</p> <p>9th & 10th Grade Physical Education is a course that focuses on individual fitness and self improvement while refining their skills and knowledge based on individual and team sports and activities. Students will focus on aerobic activity in the gym and fitness center and strength training in the weight room. Students will also be required to develop and follow a workout routine on a weekly basis. Students will be responsible for knowing rules and regulations of each unit taught and will be given skills tests and written quizzes online. Each student will be expected to have a change of clothes and shoes for either indoors or outdoors and for hot or cold weather.</p>
Weight Lifting	<p>Course Title: Weight Lifting - 305 Grade Level: 10-12 Length Of Course: Semester</p> <p>Weight lifting is a course designed to accommodate students interested in total body fitness using both weight lifting and aerobic activities. You must set individual fitness goals and be accountable for working toward your goals. Prior to lifting, a student will be required to stretch and perform some aerobic activities and exercises to loosen up their muscles. A typical agenda might be: Monday, Wednesday, Friday - a focus on weight training with the upper body and each student charting and recording their individual training programs; Tuesday and Thursday will be a focus on the lower body and aerobic days which may include recreational activities and in season sports activities. Along with weight training, polymetrics, general exercise, cardiovascular fitness will be emphasized.</p>

Driver's Ed	<p>Course Title: Driver's Education - 306 Grade Level: 9 Length of Course: Semester</p> <p>The driver education class fulfills the 30 hour requirement to obtain your learner's permit. The following topics will be covered: Your License to Drive, Your Vehicle, Traffic Laws and Vehicle Operation, Sharing the Road, Signs, Signals and Pavement Markings, Driving Conditions, Your Driving Privileges, and Impaired Driving. Students must have at least 30 hours of class and complete all the study guides and tests. The permit test will be administered during school hours by the state examiner for all students who successfully complete classroom driver education.</p>
-------------	--

SCIENCE

Astronomy

Course Title: Astronomy - 321 Grade Level: 10-12

Length of Course: Semester

In Astronomy, students will examine the solar system, stars (and energy), galaxies, interstellar bodies, & phenomena. They will study and use astronomic instruments and explore theories regarding the origin and evolution of the universe, solar system, space, and time.

Students will understand:

A. Solar System

1. Explain lunar phases & eclipses.
2. Compare the relative sizes and distances of the Sun, Moon, Earth, other major planets, moons, asteroids, plutoids, and comets.
3. Explain how gravity keeps planets in orbit around the Sun and governs the rest of the motion in the Solar System.

B. Galaxies

1. Describe Earth's position in the Solar System, the Solar System's position in the Milky Way, and the Milky Way among other galaxies.
2. Explore emerging theories regarding stellar phenomena & space travel.

Biology I

Course Title: Biology I - 322 Grade Level: 10-12

Length of Course: One Semester Prerequisite: Physical Science II

In this course, students will discover that biology is the study of life. Using the scientific method they will research topics such as: characteristics of life, cells, genetics, taxonomy and systemics, viruses and bacteria.

Students will understand:

A. Cells

1. All living things are composed of cells.
2. Life processes in a cell are based on molecular interactions.

B. Diversity of Organisms

1. Organisms all require different accommodations for life processes.
2. Organisms can be compared, contrasted, and classified.

C. Interdependence of Life

1. Describe the interactions between organism and the environment.
2. Describe population dynamics between species and ecosystems.

D. Heredity

1. Describe the explanation of inherited traits.
2. Describe how genes encode traits.

E. Population change

1. How biological evolution provides explanations for fossils.
2. Find molecular similarities among the diversity of species.

	<p>F. Flow of Matter and Energy</p> <ol style="list-style-type: none"> 1. How matter flows through an ecosystem. 2. How the living and nonliving components effect the flow. <p>G. Human Organism</p> <ol style="list-style-type: none"> 1. How organ systems interact with one another. 2. How Homeostasis is maintained with in the body.
Chemistry I	<p>Course Title: Chemistry I & II - 324 & 325 Grade Level: 10-12 Length of Course: Semester Each Prerequisite: Algebra, Biology I & II</p> <p>In Chemistry, you will study the structure of matter, chemical reactions, energy transformations, forces within and between atoms, historical perspectives, scientific inquiry, scientific worldview, and careers in science and technology. Students will: * Understand the nature of matter including its forms, properties and interactions. * Describe chemical reactions and the factors that influence them. * Understand energy forms, transformations and transfers. * Understand the forces of nature working at the atomic level. * Understand the nature of scientific ways of thinking. * Understand that scientific knowledge changes and accumulates over time. * Design and conduct a scientific investigation. * Understand the relationship between science and technology and uses of both. * Recognize the historical and cultural context of scientific endeavors and how they influence each other.</p>
Chemistry II	<p>Course Title: Chemistry I & II - 324 & 325 Grade Level: 10-12 Length of Course: Semester Each Prerequisite: Algebra, Biology I & II</p> <p>In Chemistry, you will study the structure of matter, chemical reactions, energy transformations, forces within and between atoms, historical perspectives, scientific inquiry, scientific worldview, and careers in science and technology.</p> <p>Students will:</p> <ul style="list-style-type: none"> * Understand the nature of matter including its forms, properties and interactions. * Describe chemical reactions and the factors that influence them. * Understand energy forms, transformations and transfers. * Understand the forces of nature working at the atomic level. * Understand the nature of scientific ways of thinking. * Understand that scientific knowledge changes and accumulates over time. * Design and conduct a scientific investigation. * Understand the relationship between science and technology and uses of both. * Recognize the historical and cultural context of scientific endeavors and how they influence each other.
Forensic Science	<p>The science of forensics is a class focused on the lab work involved in crime solving. We will get experience in several areas of crime scene analysis in an effort to prepare for a “final” CSI experience at the end of the semester. Students can expect to work on techniques until they are comfortable making scientific recommendations based on their lab work. The areas we will explore are laid out below.</p> <p style="text-align: center;">Paying attention to detail</p> <ul style="list-style-type: none"> fingerprint analysis body decomposition blood spatter Hair, fiber and bone

	<p>Evidence collection How to make sure evidence is collected properly Piecing together the clues, practice in puzzling questions.</p> <p>DNA How is DNA compared and analyzed? psychology of criminals, what can be predicted?</p>
<p>Neuroscience (Brain anatomy & Physiology)</p>	<p>This class will be an opportunity to answer unique questions about our brain. Questions like: Why do we sleep & dream? How does your brain perceive time? Are we controlled by our basic needs? How do brains remember best?</p> <p>A goal of this class will be to give you a better understanding of how your brain works. This will allow you to be a more effective learner, better at motivating yourself and better able to avoid those traps all of our brains are vulnerable to. Some other topics include emotions, drugs affects on the brain, wisdom, learning, brain development and “reality”. We will also devote time to your curiosities about the brain through discussions, experimentation and research.</p> <p>Topics of this class</p> <ol style="list-style-type: none"> 1. Time perception 2. Motivation 3. Learning & Memory 4. Emotions (Neurotransmitters unit) 5. Wisdom & Judgement 6. Inhibition and Rational thought 7. Thinking about the past/future 8. Translation of sensory input into electrical impulses (creating thoughts, memories and eliciting reactions) 9. neurons & neurotransmitters 10. Brain development as we age 11. Desires (food, sleep, reproduction, thirst, social, happiness) 12. Sleep & dreams 13. “Brain Rules” Book as text for class, 12 rules as a foundation.
<p>Geology</p>	<p>Course Title: Geology - 327 Length of Course: Semester</p> <p>Students will study the Earth's structure, geological processes, and cycles.</p> <p>The student will:</p> <ol style="list-style-type: none"> A) understand that the interactions of the atmosphere, biosphere, lithosphere, hydrosphere and space have resulted in ongoing change of the Earth system over geologic time. B) investigate the impact humans have on the environment. C) will explain the causes and effects of the Earth's atmospheric and hydrologic processes.

Physical Science I	<p>Course Title: Physical Science 1 & 2 - 328 & 329 Grade Level: 9 Length of course: Semester Each Prerequisites: none</p> <p>In Physical Science, you will study forces of nature, motion, energy transformations, structure of matter, chemical reactions, the nature of science, scientific inquiry, historical perspectives, and relationship of science and of technology.</p> <p>Students will understand:</p> <ul style="list-style-type: none"> * The nature of force and motion. * The forces of nature and their application. * Energy forms, transformations and transfers. * The nature of matter including its forms, properties and interactions. * How to describe chemical reactions and factors that influence them. * The nature of ways of scientific thinking and changes over time. * The relationship between science and technology and how both are used. * The historical and cultural context of scientific actions and discoveries. * How to design and conduct a scientific investigation.
Physical Science II	<p>Course Title: Physical Science 1 & 2 - 328 & 329 Grade Level: 9 Length of course: Semester Each Prerequisites: none</p> <p>In Physical Science, you will study forces of nature, motion, energy transformations, structure of matter, chemical reactions, the nature of science, scientific inquiry, historical perspectives, and relationship of science and of technology.</p> <p>Students will understand:</p> <ul style="list-style-type: none"> * The nature of force and motion. * The forces of nature and their application. * Energy forms, transformations and transfers. * The nature of matter including its forms, properties and interactions. * How to describe chemical reactions and factors that influence them. * The nature of ways of scientific thinking and changes over time. * The relationship between science and technology and how both are used. * The historical and cultural context of scientific actions and discoveries. * How to design and conduct a scientific investigation.
Physics I	<p>Course Title: Physics I - 330 Grade Level: 11-12 Length of Course: Semester Prerequisite: Adv Algebra</p> <p>In physics I students will discover that every action involves a transfer of energy by looking at topics such as: velocity, acceleration, forces, vectors, universal gravitation, momentum, work, and energy.</p> <p>Students will understand:</p>

	<p>A. Energy Transformations</p> <ol style="list-style-type: none"> 1. Discover the different forms of energy. 2. Discover the different ways that energy is transferred and transformed. <p>B. Motion</p> <ol style="list-style-type: none"> 1. Understand the nature of force. 2. Understand the nature of motion. <p>C. Forces of Nature</p> <ol style="list-style-type: none"> 1. Discover the forces of nature. 2. Discover how forces are applied.
High School Anatomy I	<p>This course covers basic anatomy and physiology. Topics and areas covered: study of cell, tissues, organs of the different body systems and structures. Systems studies: integumentary, skeletal, muscular, circulatory, lymphatic, and respiratory</p>
Genetics	<p>Course Title: Genetics Grade Level: 11-12 Length of Course: Semester Prerequisite: Biology I & II</p> <p>This course is focused on cutting edge scientific research in the field of human genetics. Much of our work is accomplished through experiments, lab work, discussion of current ethical topics and current/future applications of this field. Biology is a prerequisite for this course and after some review we will pick up where our study of genetics in biology left off. This is an ideal course for those interested in a medical, health, or biologically related field of study after high school. Below are a summary of the units covered in this class.</p> <ol style="list-style-type: none"> I. DNA to chromosomes to genes II. The human genome III. Gene therapy (the future of medicine*) IV. Ethics of gene manipulation V. The future & student selected topics

SOCIAL STUDIES

Abnormal Psychology	<p>Course Title: Abnormal Psychology - 361 Grade Level: 10-12 Length of course: Semester</p> <p>Note to student: Psychology is not a prerequisite to Abnormal Psychology.</p> <p>'Are you crazy*' 'That guy must be nuts!' 'She certainly is not playing with a full deck.' 'He is neurotic.' 'We live in a sick society.'</p> <p>Think about the number of times you've heard these expressions, and picture in your mind the image of someone you would label as 'crazy' or abnormal. Our society is rife with terms/phrases to describe behavior outside the norm; our interactions are loaded with judgments of it. We often make evaluations with the conviction of intuition, we rarely consider validity.</p> <p>Actually, we often evaluate behavior of all others we meet as normal or abnormal.</p> <p>There is no clear distinction between normality and abnormality, sanity and insanity, mental health and mental illness. The culture, the times, the situation, the individual profoundly influences the classification.</p> <p>This course aims to emphasize the difficulty of ascertaining who is psychologically disordered by presenting the major classifications and types of psychological disorders currently under investigation in our medical and psychological community.</p> <p>Researching case studies, class discussions, and inquiry-based projects represent most of the activities of the course. Among these activities, students will have the opportunity to read and research J.D. Salinger's classic novel <i>The Catcher in the Rye</i> and view the movie and research the history behind the movie <i>A Beautiful Mind</i>*to name just two of the major projects of the course.</p>
Civics I	<p>Course Title: Civics I - 362 Grade Level: 9 Length of Course: Semester</p> <p>Civics is the study of our citizenship and how our government works. In the first semester, students explore the basics of citizenship, how the Declaration of Independence and the U.S. Constitution work, the Supreme Court and political parties. Instead of just reading about everything, most of the class is dedicated to actually doing what we study. Prepare to write a declaration of independence and a constitution. You'll also form a political party and become a justice of our supreme court. If you like to stay active, argue, discuss and see life through someone else's eyes, this class is for you!</p>
Civics II	<p>During the second semester of the course, students will run a simulated Congress to actually experience the process and perspective of lawmaking. Also included in the second semester will be an analysis of the presidency and a look at the basics of state and local government. At the conclusion of the semester, all students must pass the actual citizenship test that is given to naturalized citizens. Current issues and events will be studying and debated throughout the entire year.</p>

Economics I	<p>Course Title: Economics I (micro) - 364 Prerequisite: United States History II Length of Course: Semester</p> <p>What kind of new business would succeed in New York Mills* What would you do with \$1 million* What type of career are you going into* Decisions*decisions*decisions. That's what Economics I is all about. We'll study the economy by looking at a variety of real-life decisions, through the eyes of the people who have to make them. The major themes of Econ I are money, banking, businesses, and economic forecasting. You'll also continue your career decision making process that was started in 9th grade by participating in a career unit that will take place throughout the entire se. You'll not only learn a little about economics and your career choices, but you'll definitely improve your decision-making skills!</p>
Economics II	<p>Course Title: Economics II (macro) - 365 Length of Course: Semester</p> <p>We live in a world of scarcity where our wants exceed our resources. Does this mean we can get everything that we want? No. Does this mean we have to make wise decisions? Definitely! In Econ II, will study how our countries, states, businesses and people make economic decisions. As a continuation of Econ I, we will also continue to look at all of the career issues that high school students face: finishing high school, choosing a college, considering the military, financial aid and choosing a career.</p>
Political Science	<p>Course Title: Political Science - 366 Grade Level: 10-12 Length of Course: Semester Prerequisite: American Hist. II</p> <p>Political Science will be divided into three major unit areas; the Federal Government, political participation, and civil rights/civil liberties. The class is intended to extend the area of study of 9th grade social studies, and to investigate areas of political activism.</p> <p>The standard taught toward and assessed is US Citizenship. Daily learning activities will teach you the knowledge base necessary to successfully observe, analyze, and interpret a governmental process.</p>
Psychology	<p>Course Title: Psychology - 367 Grade Level: 10-12 Length of Course: Semester Prerequisite: American Hist. II</p> <p>You will review current research in learning, memory, body systems and effect on behavior and sensation, and current events in psychology. Throughout the course, you will review research completed in various topics of psychology and related themes. You will use research techniques such as surveys, structured and unstructured interviews, observations, and questionnaires. We will work in the Media Center and classroom with primary and secondary sources.</p> <p>Assessment of the package will involve development of a research plan including a research problem and sub-problem, determining feasibility, planning to collect data, and a review of background information (issues and context), collecting and interpreting primary data, and discussing findings. Expect to use primary and secondary sources and techniques to gather information. This data will then be synthesized into a final product.</p>

<p>World History & Geography I</p>	<p>Course Title: World History and Geography - 368 & 369 Grade Level: 12 Length of Course: Semester each</p> <p>The study of History (Minnesota, U.S., and World) will help you see how people in other times and places have grappled with the fundamental questions of truth, justice, and personal responsibility, to understand that ideas have real consequences, and to realize that events are shaped both by ideas and the actions of individuals.</p> <p>The study of World History will help you understand the major developments in the civilizations of Europe, the Middle East, Africa, Asia, and the Americas. World History will also help you recognize the 'common problems of all humankind, and the increasing interactions among nations and civilizations that have shaped much of human life' and how individuals and nations have successfully or unsuccessfully met the challenges of human nature and their environment.</p> <p>No one can approach History without the use of Geography. This course will also emphasize Geography. Geography is the science of space and place on Earth's surface. It is an integrative discipline that brings together the physical and human dimensions of our world. Geography's subject matter is the spatial arrangement of the physical and human phenomena that make up the world's environments and gives character to places, large and small. Geography describes the changing patterns of places in words, maps, numbers and graphics, explains how these patterns come to be, and unravels their meaning.</p> <p>Geography captures the imagination. It stimulates curiosity about the world and the world's diverse inhabitants and places as well as about local regions and global issues. It enables us to understand our home by opening windows on the rest of the world.</p>
<p>World History & Geography II</p>	<p>Course Title: World History and Geography - 368 & 369 Grade Level: 12 Length of Course: Semester each</p> <p>The study of History (Minnesota, U.S., and World) will help you see how people in other times and places have grappled with the fundamental questions of truth, justice, and personal responsibility, to understand that ideas have real consequences, and to realize that events are shaped both by ideas and the actions of individuals.</p> <p>The study of World History will help you understand the major developments in the civilizations of Europe, the Middle East, Africa, Asia, and the Americas. World History will also help you recognize the 'common problems of all humankind, and the increasing interactions among nations and civilizations that have shaped much of human life' and how individuals and nations have successfully or unsuccessfully met the challenges of human nature and their environment.</p> <p>No one can approach History without the use of Geography. This course will also emphasize Geography. Geography is the science of space and place on Earth's surface. It is an integrative discipline that brings together the physical and human dimensions of our world. Geography's subject matter is the spatial arrangement of the physical and human phenomena that make up the world's environments and gives character to places, large and small. Geography describes the changing patterns of places in words, maps, numbers and graphics, explains how these patterns come to be, and unravels their meaning.</p> <p>Geography captures the imagination. It stimulates curiosity about the world and the world's diverse inhabitants and places as well as</p>

	about local regions and global issues. It enables us to understand our home by opening windows on the rest of the world.
Social Issues	<p>Course Title: Social Issues - 370 Grade Level: 10-12 Length of Course: Semester</p> <p>In Social Issues, we learn how to evaluate events and actions from diverse United States and world perspectives. We will work with such concepts as race, culture, gender and disability, and discover how they may influence beliefs, actions and world view. By analyzing contemporary social issues, topics or concepts around which disagreement or ambiguity exists, we will see how data and experiences may be interpreted differently. Expect to learn to defend your own point of view, and maybe even understand why someone else sees issues quite differently than from how you do</p>
Street Law I	<p>Course Title: Street Law - 371 & 372 Grade Level: 10-12 Length of Course: Semester</p> <p>Street Law is law that is of practical use in everyday life (on the streets). Every purchase, lease, contract, marriage, divorce, crime, or traffic violation places the citizen face-to-face with the law. Street Law is designed to provide you with an understanding of your legal rights and responsibilities, a knowledge of every day legal problems, and the ability to analyze, evaluate, and in some situations, resolve legal disputes.</p> <p>In compliance with the graduation standards, you will be required to identify and evaluate a contemporary issue that has opposing views. You will then be asked to identify motives, analyze feasibility and practicality, compare sides, and ultimately propose solutions.</p>
Street Law II	<p>Course Title: Street Law - 371 & 372 Grade Level: 10-12 Length of Course: Semester</p> <p>Street Law is law that is of practical use in everyday life (on the streets). Every purchase, lease, contract, marriage, divorce, crime, or traffic violation places the citizen face-to-face with the law. Street Law is designed to provide you with an understanding of your legal rights and responsibilities, a knowledge of every day legal problems, and the ability to analyze, evaluate, and in some situations, resolve legal disputes.</p> <p>In compliance with the graduation standards, you will be required to identify and evaluate a contemporary issue that has opposing views. You will then be asked to identify motives, analyze feasibility and practicality, compare sides, and ultimately propose solutions.</p>
United States History I	<p>Course Title: United States History I - 373 Prerequisite: Civics II Length of Course: Semester</p> <p>United States History I, also known in conjunction with English 10, I as American Studies I, explores the beginnings of our country's history through the Great Depression. Expanding the years 10,000 B.C. to 1939 A.D., American Studies I (U.S. History I) provides students with the opportunity to study a barrage of historical events and individuals. These include, but are not limited to:</p> <ul style="list-style-type: none"> * early native American tribes, * European exploration and expansion of North America, * our first 13 colonies, * the American Revolution,

	<ul style="list-style-type: none"> * the creation of our Constitution, * the War of 1812, * the Lewis and Clark expedition, * the Civil War, * World War I, * and the Great Depression. <p>Students will also receive the opportunity to read significant fiction and non-fiction books pertaining to any historical event and or character associated with the time period being studied as well as view major Hollywood movies regarding the era. Afterwards, the student will serve as historian and critique the historical relevance of each work.</p> <p>In conjunction with English 10 I, the student will also create a mini-documentary film relating to a historical event or individual. Working with a group, students will be granted research and work time in both U.S. History I and English 10 I.</p>
United States History II	<p>Course Title: United States History II - & 374 Prerequisite: United States History I Length of Course: Semester</p> <p>United States History II, also known in conjunction with English 10 II as American Studies II, explores the beginnings of our country's involvement in World War II through contemporary United States history. Expanding the years 1939 to present day, American Studies II(U.S. History II) provides students with the opportunity to study a barrage of historical events and individuals. These include, but are not limited to:</p> <ul style="list-style-type: none"> * WW II and the Holocaust, * the Berlin Crisis, * the Korean War, * the Red Scare and McCarthyism, * the Vietnam War, * the Cuban Missile Crisis, * the Civil Rights Movement, * Watergate, * and the Reagan Years. <p>Students will also receive the opportunity to read significant fiction and non-fiction books pertaining to any historical event and or character associated with the time period being studied as well as view major Hollywood movies regarding the era. Afterwards, the student will serve as historian and critique the historical relevance of each work.</p> <p>In conjunction with English 10 I, the student will also write a multi-genre paper relating to a historical event or individual. Working individually, the student will be granted research and work time in both U.S. History II and English 10 II. Other, smaller projects will also be completed within the two courses.</p>

<p>Careers 9</p>	<p>Course Title: Careers - 375 Grade Level: 9 Length of Course: Quarter</p> <p>Careers 9 allows participants to consider life after high school. The course starts with students analyzing themselves. What are my interests* What are my skills* What kind of lifestyle do I want to have some day* After that, we look at the world of work. What jobs will be available when I graduate* What career fields seem to be most interesting to me* A look at colleges and the military follows. By the end of the course, students will have a broader and more informed look at the rest of their high school years and what follows after graduation. This introductory course gives students a chance to dream, explore and plan.</p>
<p>School To Work</p>	<p>Course Title: School to Work - 376 Grade Level: 11-12 Length of Course: Semester</p> <p>The purpose of the placement class is to integrate academic learning with real world work applications. This class is designed to allow students to explore their interest in a career. The greater portion of the quarter will be spent at a job placement.</p> <p>The package called 'Occupational Experience' is used in this course. You will be expected to receive classroom training in job seeking skills as well as job performance skills. Upon completion of required written work (personal data sheet, resume, cover letter, etc), you will interview for a position involving work in the community. Once an employer and teacher place you in your desired area, you will go to work and develop personal goals for your job. After each work day, you will journal and over time, you will assess your progress toward improvement via your journal and on-going conferencing with the employer and instructor.</p> <p>You can expect to learn about yourself and how to use your best skills to compliment your weak areas, as well as learning how to strengthen those weak areas.</p> <p>To be eligible, a student must: make consistent progress towards graduation (as determined by the counselor and/or the principal); maintain passing grades; consent of the instructor; signed agreement containing the following signatures of approval/agreement of terms: student, parents / guardians, instructor, administrator, counselor, employer; and good attendance records.</p> <p>You will learn:</p> <ul style="list-style-type: none"> *to use careers info to write a summary statement of personal attributes *to analyze a potential placement, including job duties & responsibilities, working conditions, & skills, abilities, and education required, as well as employment outlook *to match personal attributes with job requirements *to develop a job placement file, including personal data sheet, social security number, references, letters of application, follow-up, and acceptance, an application form *to complete a work place skills inventory with employer *create a 'work experience log' which includes a 'work place skills inventory'

	<ul style="list-style-type: none"> *create a record of work related laws *create a training manual for the position
Forensics	<p>Course Title: Forensics - 377 Grade Level: 10-12 Length of Course: Semester</p> <p>Forensics will introduce the student to how crime is solved through the eyes of both a scientist and a law official. In Forensics, the student will spend half of his or her time being introduced to the Criminal Justice System. This includes everything that happens to a person from arrest through prosecution and conviction to release from the state. The other half of Forensics will include acquainting the student to the newest branch of science, Forensic Criminalistics. Activities will range from basic crime scene processing to soil analysis, fingerprint recognition to handwriting comparisons. On both sides, students will be provided the opportunity to meet with both local and state experts. A final project of incorporating both the scientific and legal aspects of crime is a strong possibility.</p>

WORLD LANGUAGES

<p>Spanish 1A</p>	<p>Course Title: Spanish 1A and 1B - 401 & 402 Grade Level: 9-12 Length of Course: Semester each Recommended: C avg. in Eng. classes</p> <p>Beginning Spanish students will begin working toward an acceptable degree of proficiency in speaking, writing, reading, and listening skills. We will focus on basic vocabulary, pronunciation, grammatical concepts, and Hispanic culture. You will learn to introduce yourself and greet others, say what you like and don't like to do, and express personality traits, class schedules, telling time, and hobbies. There will be units on food, family, clothing, and weather. Get ready to expand your world! *OI*!</p> <p>It is recommended that students take Spanish I and II consecutively, as scheduling allows.</p>
<p>Spanish 1B</p>	<p>Course Title: Spanish 1A and 1B - 401 & 402 Grade Level: 9-12 Length of Course: Semester each Recommended: C avg. in Eng. classes</p> <p>Beginning Spanish students will begin working toward an acceptable degree of proficiency in speaking, writing, reading, and listening skills. We will focus on basic vocabulary, pronunciation, grammatical concepts, and Hispanic culture. You will learn to introduce yourself and greet others, say what you like and don't like to do, and express personality traits, class schedules, telling time, and hobbies. There will be units on food, family, clothing, and weather. Get ready to expand your world! *OI*!</p> <p>It is recommended that students take Spanish I and II consecutively, as scheduling allows.</p>
<p>Spanish 2A</p>	<p>Course Title: Spanish 2A and 2B - 403 & 404 Grade Level: 10-12 Length of Course: Semester each Recommended: C avg. in Spanish I</p> <p>This course will review and build on the foundations of Spanish I. Vocabulary expansion, verb use, and grammatical concepts will be emphasized, including opportunities for students to gain greater fluency in speaking, listening, reading, and writing in Spanish. Along with cultural aspects, students will learn to describe homes, health, community places, movies and television, eating in a restaurant, and daily routines. *Vaya!</p>
<p>Spanish 2B</p>	<p>Course Title: Spanish 2A and 2B - 403 & 404 Grade Level: 10-12 Length of Course: Semester each Recommended: C avg. in Spanish I</p> <p>This course will review and build on the foundations of Spanish I. Vocabulary expansion, verb use, and grammatical concepts will be emphasized, including opportunities for students to gain greater fluency in speaking, listening, reading, and writing in Spanish. Along with cultural aspects, students will learn to describe homes, health, community places, movies and television, eating in a restaurant, and daily routines. *Vaya!</p>

ACADEMIC AND COLLEGE LEVEL COURSES

Intro to Nursing/CNA	Intro to Nursing/CNA This course introduces concepts of basic human needs, health/illness continuum and basic nursing skills in a long-term care environment. Skills are taught in a simulated laboratory setting utilizing demonstration and role-playing. Upon successful completion of classroom studies, the student will participate in 16 hours of supervised clinical experience in a long-term care facility. This course meets the objectives of the Federal Omnibus Budget Reconciliation Act (OBRA) and Minnesota Department of Health Requirements as detailed for educating the nursing assistant.
ENGL 1101 - College Writing I	College Writing I (English 1101, 3 credits) - 442 College Writing is an introductory writing course designed to prepare students for later college and career writing. The course focuses on developing fluency through a process approach, with particular emphasis on rewriting and revision. Students will consider purpose and audience, read and discuss writing, and further develop their own writing processes through successive revisions to produce polished drafts. Course work will include an introduction to argumentative writing, writing from sources, and a short research project. Prerequisite: Placement by Assessment.
ENGL 1205	College Writing II (English 1102, 3 credits) - 443 Prerequisite: ENGL1101. This course provides students with additional opportunities to develop fluency through a process approach by continuing work with rewriting and revision. Students will read critically from a variety of genres as they continue to give attention to organization, syntax, usage, point-of-view, and voice in their essays. Coursework will include argumentative writing and writing from sources.
MATH 1114	College Algebra (Math 1114, 4 credits) - 444 Prerequisite: MATH1020 or by placement test. This course studies algebra from a numerical, graphical, and algebraic view point. Here are the topics that will be covered: rational and polynomial functions, exponential and logarithmic functions, inverse functions, quadratic equations, inequalities, matrices, progressions, complex numbers, theory of equations and variations, and linear equations in one, two and three unknowns. Students will be required to have a graphing calculator.
COMM 1120	Intro to Public Speaking (SPCH1114, 3 credits) - 448 This course clarifies the process of oral communication, clarifies the basic principles of public speaking, and allows the student to increase the application of these principles both while speaking and while listening.
SOC 1111	Introduction to Sociology (Sociology 1111, 3 credits) - 449 This course is an introduction to the study of societies and of the social factors that influence individual and group behavior. The course incorporates sociological and other critical thinking models for the investigation of various components of social life: culture, socialization, social organization, social stratification, social institutions, populations, dynamics, and social change.
HIST 1113	Western Civilization: 20th Century (HIST 1113 3 credits) - 450 Meets MNTC Goal Areas 5 and 8. A discussion of the political, economic, cultural and social factors which have shaped the history of the Western world. Topics include: Marxism, The Industrial Revolution, The Age of Progress, World War I, The Rise of Fascism, World War II and the Cold War.