

Hurley School District



Middle School/High School Course Description Handbook

2019 – 2020

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This booklet is intended to serve as a curriculum description guide and to provide both the student and parent with necessary information concerning career planning, course selection, and how to meet graduation requirements. Please take a moment to review this resource with your student prior to student scheduling.

Class of _____

Name: _____

Middle School Class Planning

Sixth Grade (6th):

- | | |
|-----------------------|--|
| 1) ELA: | English 6 |
| 2) Math: | Math 6 |
| 3) Science: | Science 6 |
| 4) Social Studies: | Social Studies 6 |
| 5) Quarter Rotation: | Life Skills, Game Theory, Stem, Art |
| 6) Semester Rotation: | Math Resource 6, Phy Ed 6 |
| 7) Elective 1: | Choir, Band or Both |
-

Seventh Grade (7th):

- | | |
|-----------------------|---|
| 1) ELA: | English 7 |
| 2) Math: | Math 7 |
| 3) Science: | Science 7 |
| 4) Social Studies: | Social Studies 7 |
| 5) Quarter Rotation: | Computers, Communications,
Contemporary Music Composition &
Recording, Intro to World Language |
| 6) Semester Rotation: | Math Resource 7, Phy Ed 7 |
| 7) Elective 1: | Choir, Band, World Mythology/Geography |
-

Class of _____ Name: _____

Middle School Class Planning

Eighth (8th):

- | | |
|-----------------------|---|
| 1) ELA: | English 8 |
| 2) Math: | Math 8 or Algebra 8 |
| 3) Science: | Science 8 |
| 4) Social Studies: | Social Studies 8 |
| 5) Quarter Rotation: | Careers, Metals, Stem, Art |
| 6) Semester Rotation: | Phy Ed 8, Woods 8 |
| 7) Elective: | Choir, Band, Humanities/Historical Events
& Film |
-



HURLEY K-12 SCHOOL

MIDDLE SCHOOL ELECTIVE COURSE SELECTION

2019 – 2020

Student's Name: _____

6th Grade – Choose One

Choir _____

Band _____

Choir & Band _____

7th Grade – Choose One

Choir _____

Band _____

Choir & Band _____

Elective _____

The seventh-grade elective will be (2) semester courses. Students who select the elective will take one semester of World Mythology and one semester of Geography. These courses are subject to change based on staff availability.

8th Grade – Choose One

Choir _____

Band _____

Choir & Band _____

Elective _____

The eighth-grade elective will be (2) semester courses. Students who select the elective will take one semester of Humanities and one semester of Historical Events & Film. These courses are subject to change based on staff availability.

Parent/Guardian Signature: _____ Date: _____

School Counselor's Signature: _____ Date: _____

MIDDLE SCHOOL COURSES

ENGLISH

Course Title: ENGLISH 6 (#2253)

Grade Level: 6

Course Description: This course introduces students to using the Google DOCS Program and following MLA Style of processing written works. Students will learn skills for effective written and oral communication by studying grammar, usage, spelling, and conventions of capitalization and punctuation. Students will gain experience with writing informative/explanatory texts, narratives, and arguments to support claims. Gaining experiences of using research to support student writing and speaking will be a focus along with integrating media and multi-media components.

Course Title: ENGLISH 7 (#2177)

Grade Level: 7

Course Description: This course will focus on literary terms, genre, and MLA format. Grammar will be interwoven with both reading and writing. Novels to be read are: The Outsiders, Crispin, The Giver, and Wolf Brother. Independent novels are assigned each quarter.

Course Title: ENGLISH 8 (#2178)

Grade Level: 8

Course Description: This course will focus on poetry, novels, and plays. Grammar will be interwoven with both reading and writing and practiced through the MLA writing process. Among literary works to be read are: The Call of the Wild, Lord of the Flies, The Diary of Anne Frank, and the Miracle Worker. Independent novels are assigned each quarter.

MATHEMATICS

Course Title: MATH 6 (#2254)

Grade Level: 6

Course Description: Math in Focus is based on the framework developed by the Singapore Ministry of Education. It draws on best practices from around the world and highlights problem solving as the focus of mathematical learning. The Common Core State Standards committee looked to high-performing nations like Singapore as a model for the new U.S. standards. The Common Core calls for a new level of rigor, depth, and coherence that will allow our students to compete globally on mathematics assessments and in their future careers.

Course Title: APPLIED MATH 6 (#2995)

Grade Level: 6

Course Description: Applied Math is going to be designed to take the skills and concepts we are working on in math class and apply them the real-world projects and activities. We will focus on constructed responses and problem-solving and a baseline for this course. Students

will be working as individuals and in small groups, and will be challenged with activities, projects, and games to reinforce their math skills.

Course Title: MATH 7 (#2184)
Grade Level: 7

Course Description: Students will review fractions, functions, and graphing before solving multiple step equations, various word/application problems, and Inequalities. Second semester students will work with percents, Interest rates, statistics, and probability.

Course Title: APPLIED MATH 7 (#2994)
Grade Level: 7

Course Description: Two to three days a week, seventh graders will go more into math topics that utilize a different skill set than most are used to. They will work with code breaking, geometric construction, and other math skills that require a lot of thought, but no calculations.

Course Title: MATH 8 (#2185)
Grade Level: 8

Course Description: Students will go over the basis for Algebra including Linear Equations, Expanded Step Equations, and Pythagorean Theorem. This course covers a lot of new concepts but goes at a slower rate, so students are knowledgeable and prepared for Algebra their freshmen year.

Course Title: ALGEBRA 8 (#2171)
Grade Level: 8

Course Description: This option is available for students who in seventh grade demonstrated their Algebra Readiness through their STAR test scores and grades in seventh grade Math. This includes all of Eighth grade math at a quicker pace with additional steps or methods to solve and higher order equations.

SCIENCE

Course Title: SCIENCE 6 (#2232)
Grade Level: 6

Course Description: This course is designed to expose our students to the different areas of science. Students will utilize informational text, current events, hands-on experiments, and projects to develop a deeper understanding of science related concepts and be able to, “Think Like A Scientist”. Each quarter, this class will focus on a different branch of science:

1st Quarter – Life Science
2nd Quarter – Earth Science

3rd Quarter – Science Fair/Health
4th Quarter – Physical Science

Course Title: SCIENCE 7 (#2186)

Grade Level: 7

Course Description: Life Science is any science that deals with living organisms, their life processes, and their interrelationships, as biology, medicine or ecology. This course will have an emphasis on:

- Exploring Life
- Cell Reproduction
- Classifying of Living Things
- Protists and Fungi
- Mollusks, Worms, Arthropods & Echinoderms
- Birds and Mammals
- The Structure of Viruses and Cells
- Heredity
- Bacteria
- Intro to Animals
- Fish, Amphibians & Reptiles

Course Title: SCIENCE 8 (#2187)

Grade Level: 8

Course Description: Earth Science is any of various sciences as geography, geology or meteorology that deal with the earth, its composition, or any of its changing aspects. This course will have an emphasis on:

- The Nature of Science
- Minerals and Rocks
- Weathering and Soil
- Earthquakes and Volcanoes
- Clues to Earth's Past
- Our Impact on Land, Water and Air
- The Sun-Earth-Moon System
- Matter and its Changes
- Mapping the Earth
- Water Erosion
- Plate Tectonics
- Geologic Time
- Weather

SOCIAL STUDIES

Course Title: SOCIAL STUDIES 6 (#2234)

Grade Level: 6

Course Description: This course will discuss the lives of immigrants who moved to Wisconsin in the nineteenth and twentieth centuries, including the home they left, the moving experience, and their new life in Wisconsin. Students view a 10-minute digital news show that explains global news to a global audience. Students will begin to develop the knowledge and skills necessary to make informed and reasoned decisions as citizens of a culturally diverse, democratic society in an interdependent world.

Course Title: SOCIAL STUDIES 7 (Course #2188)

Grade Level: 7

Course Description: Social Studies in the seventh grade describes how democracy works in Wisconsin. Wisconsin's historical significance and Act 31 are incorporated into the class. Students will learn how local, county, and state governments function with respect to each other. Participation in government and volunteerism are other items in which importance will be stressed. Checks and balances for each division of governments will be taught. Wisconsin's constitution importance will be a major topic of discussion, as well as its similarities to the U.S. constitution. Native American government will also be an important objective throughout the

class, along with the explanation of tribal sovereignty. Wisconsin's court system is another vital topic that will be taught, from circuit court, to appellate court, to the relationship of the federal system.

Course Title: SOCIAL STUDIES 8 (Course #2189)
Grade Level: 8

Course Description: Social studies in the eighth grade consists of the study of the U.S. constitution. The first ten amendments will be thoroughly covered. All other amendments will be studied as well. The importance of civic duties and responsibilities will be taught with a complete understanding of the difference between the two. Elections and the importance of voting in the federal system will be an important emphasis throughout the class. Act 31 will be explained as to how it relates to the United States government, with sovereignty being a significant point of instruction. As a continuation from the seventh grade, checks and balances at the federal level will be another dimension of the class. The federal court system is also a continuation from seventh grade with the understanding of the Supreme Court's importance to the constitution in our judicial system.

PHYSICAL EDUCATION

Course Title: PHYSICAL EDUCATION 6 (Course #2947)
Grade Level: 6

Course Description: This course teaches the basic skills needed to play a variety of team and individual sports along with a program of physical conditioning throughout the year. In each grade level, more skill is developed along with learning the fundamentals of officiating.

Course Title: PHYSICAL EDUCATION 7 (#2190)
Grade Level: 7

Course Description: This course teaches the basic skills needed to play a variety of team and individual sports along with a program of physical conditioning throughout the year. In each grade level, more skill is developed along with learning the fundamentals of officiating.

Course Title: PHYSICAL EDUCATION 8 (#2192)
Grade Level: 8

Course Description: This course teaches the basic skills needed to play a variety of team and individual sports along with a program of physical conditioning throughout the year. In each grade level, more skill is developed along with learning the fundamentals of officiating.

ROTATION CLASSES

Course Title: ART 6 (#2262) – Quarter Rotation

Grade Level: 6

Course Description: Students will learn and use the elements of art and principles of design to create two-dimensional and three-dimensional art. Students will be introduced to art vocabulary and the process of art criticism as well as explore a variety of media that may include drawing, painting, graphics, printmaking, and sculpture.

Course Title: GAME THEORY 6 (#3613) – Quarter Rotation

Grade Level: 6

Course Description: Game Theory is an actual field in Math where given a set of conditions; people's choices are predicted, and best practice is calculated based on that. Students will learn, teach, and play a wide variety of games while gaining social and logical soft skills.

Course Title: LIFE SKILLS 6 (#2946) – Quarter Rotation

Grade Level: 6

Course Description: Students will learn a variety of skills to help them in day to day life and help prepare them for the future. A new topic will be covered every week using a blended curriculum of worksheets, group activities, and various media resources.

Course Title: STEM 6 (#2996) – Quarter Rotation

Grade Level: 6

Course Description: A noisy, exuberant classroom exemplifies what Science, Technology, Engineering and Math (STEM) class is about. Learning is collaborative and project-based. Students will work closely together in a hands-on way to solve real world problems. Learning problem solving skills and helping students develop into creative, critical thinkers is at the core of any true STEM classroom. While all schools teach math and science, good STEM programs focus deeply on these subjects in hopes of better preparing students for the high-demand tech jobs of the future. Class time will be an ever-changing and evolving mix of group discussions, computer simulations/modeling and hands-on labs/activities designed to encourage both collaborative and independent learning. The STEM 6 curriculum will be organized around a more limited number of core ideas while focusing on depth and coherence, in accordance with the NGSS. Students will be immersed in a project-based learning environment that explores D.C. circuits, coding, and graphic design (Snap-Circuits, code.org, and Sketch-up!)

Course Title: COMMUNICATIONS 7 (#2971) – Quarter Rotation

Grade Level: 7

Course Description: Good communication skills involve displaying confidence and passion in what an individual wants to communicate, as well as empathy for others when listening. Public speaking can intimidate many students, but teenagers can learn to love this “scary” subject with fun games, relevant assignments, and creative instructions. Grades will be derived from a wide variety of sources. Daily work, quizzes, tests, class participation and other projects will be the basis for points that will be earned in this class each quarter. A grading system is in your student handbook online.

Course Title: COMPUTERS 7 (#2179) – Quarter Rotation

Grade Level: 7

Course Description: Students will learn about computers, the internet and what we can create and learn from using both. In this class, we will also learn how to create digital media projects using the software tools that are on our Mac computers. Students will be able to use the skills they've learned to create class projects on their MacBooks.

Course Title: INTRO TO WORLD LANGUAGE 7 (#2945) – Quarter Rotation

Grade Level: 7

Course Description: This class is an overview of several languages and how they are constructed. Students will find out and discuss their own heritage and also touch on Ojibwa, Kharia (from India), Hungarian and Irish. They will then explore Finnish, Italian, German, French and Spanish by learning some of the basics of the language, a conversation, and complete a culture search. This is designed to spark interest and create excitement for students who have had little to no exposure to a foreign language.

Course Title: CONTEMPORARY MUSIC COMPOSTION & RECORDING (#3614) – Quarter Rotation

Grade Level: 7

Course Description: Students will learn how to use GarageBand to write and record compositions. Students will learn how to create/write their own music in various capacities, such as jingles, movie soundtracks, video game compositions, raps, etc. Students will be expected to work in groups as well as on solo projects. Upon completion of each project students will share their compositions with the class.

Course Title: ART 8 (#2176) – Quarter Rotation

Grade Level: 8

Course Description: Students will learn to creatively express themselves through different media like drawing, painting, printmaking, graphics, and sculpture. Students will continue to develop their skills through composition and technique as well as the elements of art and principles of design.

Course Title: CAREERS 8 (#2303) – Quarter Rotation

Grade Level: 8

Course Description: Students will explore careers through the use of the Career Cruising technology. They will learn about various careers including description, salary, schooling, location and other facets to help explore career choices. Students will create career plans that will follow with them throughout their educational career.

Course Title: STEM 8 (#2827) – Quarter Rotation

Grade Level: 8

Course Description: STEM 8 is a quarter rotating curriculum-based class with the idea of educating students in four specific disciplines (science, technology, engineering, and mathematics) in an interdisciplinary and applied approach. STEM integrates them into a

cohesive learning paradigm based on real-world applications. Students will be working cooperatively with a hands-on approach. They are encouraged to develop soft skills that are applied in the work force. Students will learn to code computer commands, command robots with sensors, use an AutoCAD program and learn to 3D print. Students will conduct an alternative energy wind energy study and advanced students will build and test the limits of a hydraulic arm.

Course Title: METALS 8 (#3610) – Quarter Rotation

Grade Level: 8

Course Description: Metals 8 starts with a few weeks of safety demonstrations and a measurement unit. Following the measurement, the students will pair up into small groups and design a coat rack of their choosing. Once the design is complete, the group builds one product with the help of high school students and the instructor. Following the completion of the first product, the group then replicates the process of each member of the group and takes a product home at the end of the class.

Course Title: WOODS 8 (#2183) – Semester Rotation

Grade Level: 8

Course Description: Woods provides students with the opportunity to explore manufacturing concepts used in the wood industry. Throughout the course, students will have the opportunity to gain an understanding of wood as a material and the processes necessary to take raw material and convert it into a finished product. Students will learn about shop safety, measuring and layout, and develop the skills to build a project out of wood.

ELECTIVES

Course Title: BAND 6 (#2954)

Grade Level: 6

Course Description: This course is designed to give the student an enriching and diverse instrumental music education. This class provides a number of performance opportunities for the student in a variety of settings. The daily objective of the course is to foster and promote musical growth through the playing of an instrument by the student. As a member of the band, group effort and cooperation is necessary to a successful program. Band is a skilled effort in which each student is expected to show technical and musical growth throughout this course. Pep band performances are required of high school band students and optional for junior high students. Band students in grades five and six are not included in marching or pep band.

Course Title: JUNIOR HIGH BAND (#2197)

Grade Level: 7 or 8

Course Description: This course is designed to give the student an enriching and diverse instrumental music education. This class provides a number of performance opportunities for the student in a variety of settings. The daily objective of the course is to foster and promote musical growth through the playing of an instrument by the student. As a member of the band, group effort and cooperation is necessary to a successful program. Band is a skilled effort in

which each student is expected to show technical and musical growth throughout this course. Pep band performances are required of high school band students and optional for junior high students. Band students in grades five and six are not included in marching or pep band.

Course Title: CHOIR 6 (#2953)

Grade Level: 6

Course Description: This course is for students with the desire to learn performance and concert skills for a wide variety of vocal music. Students explore different styles of music, music history and music theory through vocal music literature. The choir performs at regular music department concerts. Therefore, students must be available to participate in rehearsals and performances outside the regular school day.

Course Title: JUNIOR HIGH CHOIR (#2196)

Grade Level: 7 or 8

Course Description: This course is for students with the desire to learn performance and concert skills for a wide variety of vocal music. Students explore different styles of music, music history and music theory through vocal music literature. The choir performs at regular music department concerts. Therefore, students must be available to participate in rehearsals and performances outside the regular school day.

Course Title: GEOGRAPHY 7 (#3066)

Grade Level: 7

Course Description: World geography will explore how continents were first formed, as well as the recognition of political boundaries and how and why they were placed where they are today. The course will begin with North and South America with the emphasis being on topographical, political and cultural differences of our western hemisphere. Native American tribal areas will also be touched upon, especially pertaining to Wisconsin.

Course Title: WORLD MYTHOLOGY 7 (#3063)

Grade Level: 7

Course Description: In this one-semester Humanities class, you will be learning about different myths and legends from the Middle East, Ancient Greece and Rome, Scandinavia, Asia, and the British Isles. You will be learning about the commonalities among the ways early cultures perceived the world through their stories, of the creation, hero, and unique myths of diverse cultures identifying common symbols and archetypes, and ultimately reflecting on what relevance it means for our personal lives. The study of mythology should lead not only to a better understanding of ancient cultures, but also of ourselves.

Course Title: HISTORICAL EVENTS & FILM 8 (#3611)

Grade Level: 8

Course Description: Films of Historical Significance is a class that will use films based on true stories from World and American historical events. Some will be biographical films such as Sargent York, Audi Murphy, Abraham Lincoln, Thomas Edison, to name a few. While others will be from real world historical time frames like D-Day, Pearl Harbor, Civil War, WWI, etc.

Students will be expected to answer questions about the film, decide if the film industry took any added liberties to sell the film (truths or fallacies), and give a brief summary of the importance of the film to our history.

Course Title: Humanities 8 (#3064)

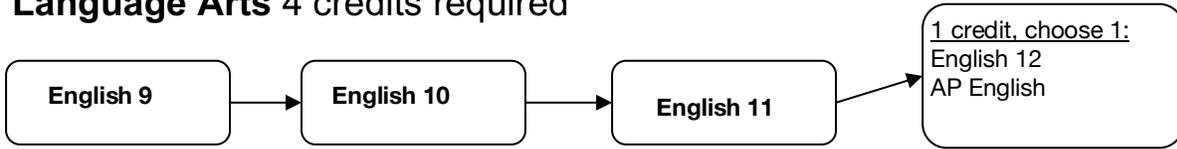
Grade Level: 8

Course Description: Students will study what are regarded as the “traditional humanities” of western civilization. Among these are the disciplines of philosophy, psychology, sociology, art and music appreciation, as well as the developments of the major religions of the world. These subjects are not studied in isolation but within the context of important developments in science, technology, economics, politics and general history. . A major intent of the course is to help students understand their own world through a careful examination of western cultural heritage.

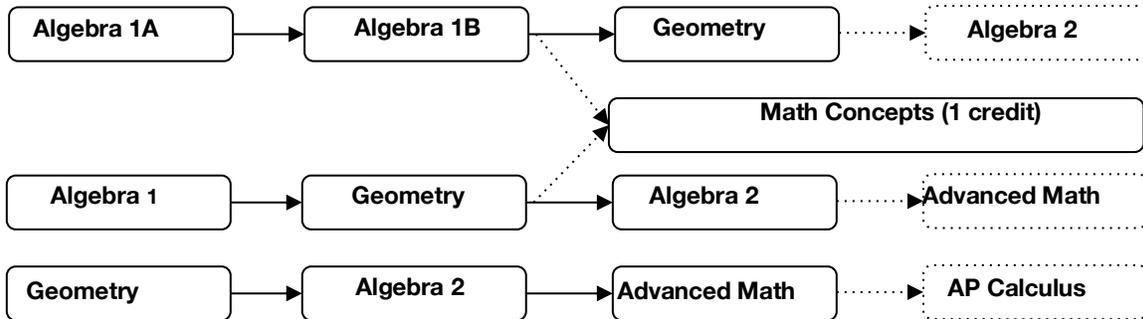
Required High School Credits - 24

6.5-7 credits per year to maintain full-time status is required

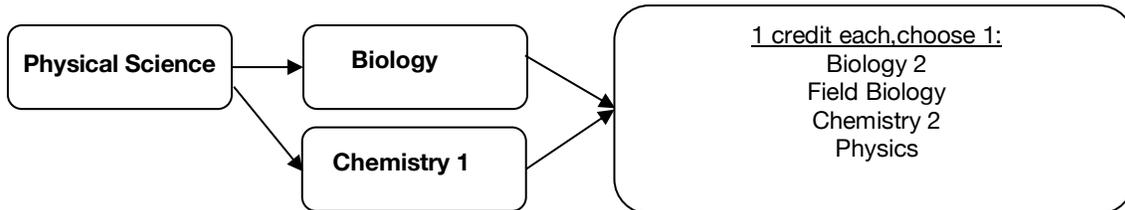
Language Arts 4 credits required



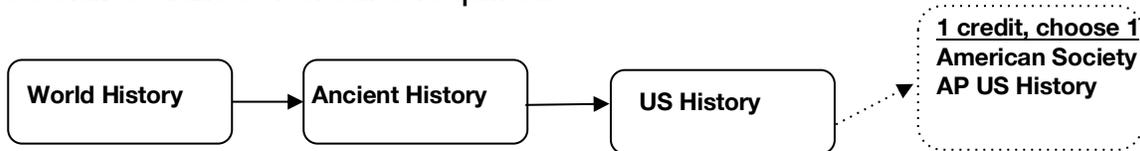
Mathematics 3 credits required



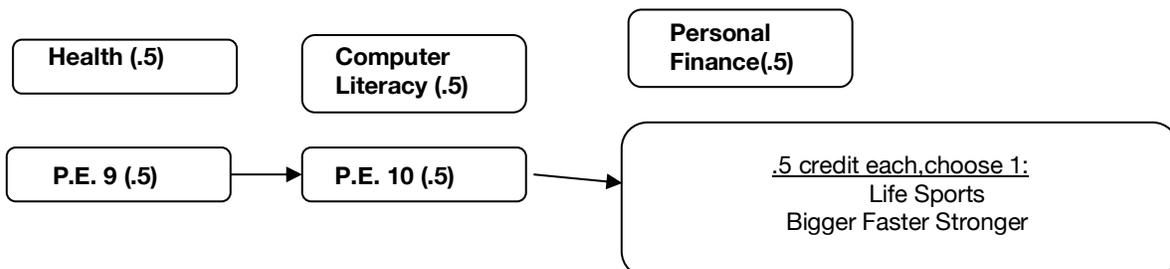
Science 3 credits required



Social Studies 4 credits required



Rest of Required 3 credits required



* CIVICS TEST as of 16-17

ELECTIVE HIGH SCHOOL CLASSES – 1 CREDIT EACH

MUSIC

Senior High Band
High School Choir

ARTS

Foundations in Visual Arts
Studio In Photography & Media
Ceramic & Sculpture/Graphic Design
Advanced Studio In Photography & Media Arts
Portfolio Studio Art

INDUSTRIAL EDUCATION – WOODS

Woods 1
Woods 2
Advanced Woods
Northwoods Manufacturing

COMPUTER TECHNOLOGY

Advanced Multimedia Production
Mac Media
Technology Team

GERMAN

German 1

INDUSTRIAL EDUCATION - METALS

Metals 1
Metals 2
Welding 1
Welding 2
Power Mechanics
Northwoods Manufacturing

Other Options for Credits:

Another Core Class Option (*Biology II, Chemistry I, Chemistry II, Physics, Algebra II, Advanced Math, AP Calculus*)
Distance Learning Classes (ITV Lab)
Early College Credit Program
Teacher Assistant
School To Work – Work Experience
Fiction To Film
Psychology
Sports Management
HS Stem

Class of : _____

Name: _____

High School Class Planning

Freshmen (9th):

- | | |
|--------------------|-------------------------|
| 1) ELA: | English 9 |
| 2) Math: | _____ |
| 3) Science: | Physical Science |
| 4) Social Studies: | World History |
| 5) Required: | Health/PE |
| 6) Elective 1: | _____ |
| 7) Elective 2: | _____ |
| Backup choice: | _____ |

Sophomores (10th):

- | | |
|--------------------|------------------------------|
| 1) ELA: | English 10 |
| 2) Math: | _____ |
| 3) Science: | _____ |
| 4) Social Studies: | Ancient World History |
| 5) Required: | Computer Literacy/PE |
| 6) Elective 1: | _____ |
| 7) Elective 2: | _____ |
| Backup choice: | _____ |
-

Class of : _____

Name: _____

High School Class Planning

Juniors (11th):

- | | |
|--------------------|------------------------------|
| 1) ELA: | English 11 |
| 2) Math: | _____ |
| 3) Science: | _____ |
| 4) Social Studies: | US History |
| 5) Required: | Personal Finance / PE |
| 6) Elective 1: | _____ |
| 7) Elective 2: | _____ |
| Backup choice: | _____ |

Seniors (12th):

- | | |
|--------------------|---------------------------------------|
| 1) ELA: | AP English/English 12 |
| 2) Math: | _____ |
| 3) Science: | _____ |
| 4) Social Studies: | American Society/AP US History |
| 5) Elective 1: | _____ |
| 6) Elective 2: | _____ |
| 7) Elective 3: | _____ |
| Backup choice: | _____ |

Scheduling

All students will be scheduled into 1) courses needed to meet graduation requirements, 2) academic support courses, if appropriate, and 3) elective courses. When selecting courses for the next year, core courses, the district required courses, and academic support classes, if appropriate, are scheduled into the student schedule first. As the students approach their graduation date, courses required for graduation will have the highest priority for scheduling. All students will have an opportunity to request elective courses into which they would like to be scheduled. Every effort is made to meet these requests. The final determination of which courses will be scheduled is based upon all students' interests. The district will set the guidelines for making this determination based upon student interest and staffing. This may mean that students may not get their first choice elective class. All students are expected to have a full schedule (6.5-7 credits) and are expected to complete a full-year course in sequence within the school year. Once students have been informed of their schedules, there will be an opportunity to request a schedule change before the 2019-2020 school year.

Students are also allowed to make schedule changes through the first week of school. Under rare and extenuating circumstances, a schedule may be changed within the first week of the second semester. (Earning a lower grade than expected or the effect of a grade on the student's GPA is not considered an extenuating circumstance.) Students will be assigned a grade each semester for any course in which they are scheduled. Final grades are assigned at the end of a semester and will appear on the transcript.

Advance Placement (AP)

Advance Placement courses are college-level courses offered at the high school. These courses are approved by the College Board. Students who participate in the AP program gain college-level skills and have the opportunity to earn college credit based upon their score on the student paid AP Exam given in the spring. (The amount of credit and the score needed vary by college.) AP courses are taught by trained high school teachers who follow course guidelines developed and published by the College Board. AP courses are available to all students who have successfully completed the prerequisite for the course. Students taking AP courses should be motivated and open to being challenged. It is an opportunity to prepare for college while still in a high school setting.

Online Courses

Online courses offered through our online provider, Odysseyware, are accepted for credit toward graduation and may be used to meet requirements in the same subject area as the course. Online courses are comparable to traditionally taught classes in rigor and expectations. Students who elect to take an online course should be self-motivated, self-directed, and able to learn effectively in a self-paced environment. Online courses are subject to the same rules as other courses regarding retaking the course, attendance, grading, GPA calculation, and appearing on the transcript.

HIGH SCHOOL COURSES

ART

Course Title: FOUNDATIONS IN VISUAL ARTS (#3036)

Grade Level: 9-12

Course Credit: 1 Credit

Course Description: This introductory studio course is designed to provide a foundation in the visual arts. Students will learn the elements and principles of design as a basis for composition as well as explore a variety of artists, art processes and materials. Topics may include drawing, painting, printmaking, graphic design, ceramics, 2D & 3D design, color theory, the critical process and keeping a sketchbook journal.

Course Title: STUDIO IN PHOTOGRAPHY & MEDIA ARTS (#3040)

Grade Level: 9-12

Course Credit: 1 Credit

Course Description: In this course, students will learn how to use several camera types: 35mm film, basic point and shoot, and digital SLR as well as the basics of Adobe Photoshop. Topics include basic darkroom techniques, composition and design, lighting, photo criticism, visual culture, workflow, photo management, image editing and history of photography.

Course Title: CERAMICS & SCULPTURE (#3038)

Grade Level: 9-12

Course Credit: 0.5 Credit (First Semester)

Course Description: In this course students will learn the fundamental methods of forming clay into a three-dimensional art form. The basic techniques for hand building (pinch pot, slab construction and coil construction) will be demonstrated as well as the fundamentals of wheel throwing. The class will focus on craftsmanship, creativity and application of the elements and principles of design.

Course Title: GRAPHIC DESIGN I (#3039)

Grade Level: 9-12

Course Credit: 0.5 Credit (Second Semester)

Course Description: In this course, students will utilize the design process to learn the power of image and word in communicating ideas information. A range of design techniques will be explored using various art materials and software programs such as Adobe Illustrator and InDesign. Students will also analyze and critique artworks as well as learn the origins of graphic design history. Topics may include the fields of advertising, typography, logo design, poster design, packaging design and illustration.

Course Title: ADVANCED FOUNDATIONS IN VISUAL ARTS (#3037)

Grade Level: 10-12

Course Credit: 1 Credit

Prerequisite: Foundations in Visual Arts

Course Description: This upper level course is designed for students who wish to further develop their skills and techniques introduced in the previous Foundations class. Topics will be explored more in depth in this course and again may include drawing, painting, printmaking, graphic design, ceramics, 2D & 3D design, color theory, the critical process and keeping a sketchbook journal.

Course Title: ADVANCED STUDIO IN PHOTOGRAPHY & MEDIA ARTS (#3041)
Grade Level: 10-12
Course Credit: 1 Credit
Prerequisite: Studio in Photography & Media Arts

Course Description: This course is designed to meet the needs of students who wish to learn advanced techniques in photography. Students will build upon skills learned in the introductory photography course. Topics may include product photography (lighting techniques), documentary photography (photojournalism), how to build strong compositions, advanced operations of a DSLR (digital single lens reflex) camera, and advanced Photoshop techniques. Students are encouraged to develop their own personal vision and style.

Course Title: PORTFOLIO STUDIO ART (#3042)
Grade Level: 11-12
Course Credit: 1 Credit

Course Description: This studio course is offered to highly motivated Juniors and Seniors who have taken art classes both Freshman and Sophomore years. Advanced students will focus on portfolio development as they continue to advance their skills in producing high quality works of art. Emphasis is placed on building a mastery in technique, composition/design, research, experimentation and creative problem solving. Students will have the opportunity to focus on a chosen subject or medium and are expected to work at an 'advanced and independent' level.

COMPUTER TECHNOLOGY

Course Title: COMPUTER LITERACY (#2013)
Grade Level: 10-12
Course Credit: 0.5 Credit (Semester Course)

Course Description: This one-semester course is designed to develop student understanding and skills in computer literacy. Topics of study will include major computer components and "computer" terminology, network & internet components and function; responsible internet usage including safety, social networking/online reputation and digital citizenship; word processing, spreadsheets, desktop publishing & digital media. This is a required class recommended for sophomores, juniors or seniors. Prior keyboarding experience is encouraged.

Course Title: DIGITAL COMMUNICATIONS/MEDIA (#2775)
Grade Level: 10-12
Course Credit: 1 Credit
Prerequisite: Computers 7, Mac Media or Computer Literacy

Course Description: Information and influence are communicated digitally across the globe. Students will learn to use digital media creation tools on their Macs as well as apps online to

create presentations and other “real world” productions that communicate a message to persuade, influence, or inform. Examples include commercials, PSAs and political campaign ads, social media campaigns, non-linear presentations, and documentaries. Students will be able to choose and apply the appropriate method based on subject matter and message. We will also discuss effective communication using various social media apps and sites online as well as the importance of digital citizenship and ethical use of these tools.

Course Title: **MAC MEDIA (#2712)**
Grade Level: 9-12
Course Credit: 1 Credit
Prerequisite: Computers 7

Course Description: Mac Media introduces students to digital creation tools on their Macs such as Pages, Keynote, iMovie, and GarageBand, through the creation of digital media projects. Students will be able to leverage features in each of these apps, as well as some of the tools available online to produce various forms of presentations. Students will be able to apply the best software tool for the style of digital communication they would like to produce, as well as evaluate third-party apps available online that might not be available on the Mac.

Course Title: **TECHNOLOGY TEAM (#2991)**
Grade Level: 9-12
Course Credit: 1 Credit

Course Description: The Student Technology Team is open to students in grades 9-12 and is a year-long course/mentorship. Students will get hands-on experience both with technology-related diagnosis and problem solving, as well as customer service and teamwork. In addition to solving technology-related problems for students and teachers, students will assist the technology director with maintenance of the technology in our school (software updates, maintenance of equipment, creation and maintenance of media and instructional websites, social media and other content). Students will learn how to use and maintain the software and systems that we use in our district and apply them to the needs of students and staff. Students will also be required to complete at least one project related to technology in our school or community, as approved by the technology director.

ENGLISH

Course Title: **ENGLISH 9 (#2025)**
Course Credit: 1 Credit

Course Description: This course will focus on short stories, the elements of the novel, and drama. Speeches will be given in conjunction with literary projects. A research paper and a novel will be completed. Among major literary works that will be read are *Mythology, Romeo and Juliet, Night, and Of Mice and Men*. Students will complete an independent novel and participate in book clubs.

Course Title: ENGLISH 10 (#2026)

Course Credit: 1 Credit

Course Description: This course will experience a multitude of literature, including short stories, drama, poetry, novels, nonfiction, and informational texts. Students will continue to deepen their understanding of literature, critical thinking skills, and will spend a significant amount of time making correlations between literature and the real world. Additionally, this course will focus on writing skills, including writing formal and informal essays. The final objective of the course is for the student to better understand the writing process and showcase their evidence through their writing. Major literary works include *Animal Farm*, *The Taming of the Shrew*, and *Montana 1948*.

Course Title: ENGLISH 11 (#2027)

Course Credit: 1 Credit

Course Description: This course focuses on the study of literature and writing. Selections focus on writers and major themes that constitute the culture of the American people. The final objective of the course is for the student to better understand the writing process and showcase their evidence. In addition to reading textbook selections, we read two plays (*A Midsummer Night's Dream*, *The Crucible*) and two novels (*The Great Gatsby*, *To Kill a Mockingbird*). Students will also engage in extensive essay writing among other styles: research paper, speeches, poetry, narratives, timed essays, presentations, as well as resumes. Students must complete weekly vocabulary and grammar as well as read an independent novel once per semester.

Course Title: ENGLISH 12 (#2028)

Course Credit: 1 Credit

Course Description: This course focuses on a multitude of literature including short stories, sonnets, poems, plays, novels, and informational texts. Students will develop skills in reading and responding to literature, how to think critically and dissect literature effectively, how to communicate clearly in the appropriate format, and most importantly, students will analyze how culture influences literature. Students will also focus on writing skills, including formal, informal essays and a major research paper. Major literary works include *Beowulf*, *Extremely Loud & Incredibly Close*, *Macbeth*, and *Murder on the Orient Express*.

Course Title: ADVANCED PLACEMENT ENGLISH LITERATURE (#2228)

Grade Level: 12

Course Credit: 1 Credit

Prerequisite: B in English 11 or Honors English or Instructor's Approval

Course Description: This course will align with the College Board and the requirements the board sets for AP Literature and Composition. It is a preparation for the College Board English literature exam in May which, depending on the ranking the student achieves, can result in from three to six college credits in English for which the student does not have to pay. In the end, students will be able to deeply understand literature through close reading and analysis. They will learn how authors use language and rhetoric to create a meaningful reading experience. They will be examining a work's structure, style, and theme as well as elements of figurative language, imagery, symbolism, and tone. They will be reading a number of genres from British and American authors throughout the summer and school year spanning many years and they will be writing in them as well. Possible literature: *The Kite Runner*, *Extremely*

Loud and Incredibly Close, Frankenstein, A midsummer Night's Dream, One Flew Over the Cuckoo's Nest, The Bluest Eye, Wit, The Importance of Being Earnest, and two independent novels.

Course Title: FICTION TO FILM (#2887)
Grade Level: 9-12
Course Credit: 1 Credit

Course Description: This course will explore a variety of literature and film adaptations as well as the elements that defines that genre: children's literature, poetry, the short story, novels, memoirs, and non-fictions texts. Students will be able to define film terminology and discuss how a director adapts from literature to screenplay. Students will also keep a journal, write reviews, compare and contrast, write creatively, and assemble a creative project.

FOREIGN LANGUAGE

Course Title: GERMAN I (#2349)
Grade Level: 9-12
Course Credit: 1 Credit

Course Description: Students will learn the basics of the Spanish language. Concentration will be on grammatical structure using the present tense, vocabulary, basic conversation and the history and culture of the German-speaking world. All aspects of written and conversational German will be introduced.

Course Title: GERMAN II (#3615)
Grade Level: 10-12
Course Credit: 1 Credit
Prerequisite: German 1

Course Description: An extension of German I, students will expand their vocabulary and grammatical background, and increase their knowledge of culture and history. Some basic translating for the purpose of discussion and conversation will be used.

INDUSTRIAL EDUCATION – WOODS

Course enrollment includes the cost for (1) pair of safety glasses which are required for any activity in the lab area. Replacements for lost or damaged safety glasses will be the responsibility of the student.

Portfolios

Students will build a portfolio that will contain a competency checklist, pictures of projects, resume, cover letter and credentials. Competencies are based on industry standards that will allow students to show the skills and abilities attained throughout their high school career and will be useful in future employment.

Course Title: WOODS I (#2812)
Grade Level: 9-12

Course Credit: 1 Credit

Course Description:

1st Semester: Students will be introduced to career paths in the wood industry, understand wood industry, understand wood as a material, identify wood species, explore raw material sources used in manufacturing wood products, learn how to safely use machines to create wood products, read and understand working drawings, know basic processes to build wood products, and build basic wood products using simple joinery methods. Students will use their understanding of wood shop tools equipment and processes to transform raw wood into a quality, finished product. This course is also where students will begin assembling their manufacturing portfolios that will travel with them throughout their high school career demonstrating student's competencies in the technical trades.

2nd Semester: Students will continue to learn about equipment/facility safety, math and measuring, design concepts, business enterprise, prototyping and manufacturing. Students will have the opportunity to create a business to design, market and manufacture a product. They will learn work ethic, teamwork, business practices and manufacturing skills while operating the programs Northwoods Manufacturing.

Students will be studying the following during each semester:

1st Semester

- Safety
- Understanding Wood as a Material
- Math/Measuring
- Tools/Equip
- Wood ID
- Processing Wood
- Project Planning
- Individual Wood Project

2nd Semester

- Developing Plans of Procedure & Cut Lists
- Manufacturing Processes & Mass Production
- Individual Projects

Students will be able to (based on state standards):

- Identify a variety of wood species and wood defects.
- Perform mathematical tasks such as: adding, subtracting, multiplying and dividing fractions; calculate board feet; and basic project estimating.
- Understand the importance of basic wood joints.
- Safely operate and maintain tools and equipment.
- Recognize potential employment in the wood industry.
- Work cooperatively to achieve success in operating a small business.

Course Title: WOODS II (#2813)

Grade Level: 10-12

Course Credit: 1 Credit

Prerequisite: Woods I

Course Description:

1st Semester: Students will have the opportunity to expand their basic knowledge of wood as a material, basic wood-working processes and wood-working skills to an intermediate level of difficulty and quality. Projects include coffee and end tables, bookcases and other small furniture products. Gaining an understanding of furniture styles will allow students to

incorporate a variety of design influences on their individual furniture project designs. CNC technology will be explored with the opportunity to utilize our Shopbot CNC router to further improve projects.

2nd Semester: Students will explore case construction (face frame, frameless cabinets) allowing them to design and build larger scale cabinets such as kitchen cabinets, entertainment centers, gun cabinets, etc. Intermediate skills will include laminating, bending wood, hardware components and case construction. The addition of advanced competencies for students will provide the opportunity to continue building on their portfolios.

Students will be studying the following during each semester:

1st Semester

- Shop safety
- Sketching/Plan of procedure
- Cabinet styles and design
- Math/Measuring/Conversions
- Hardware/Mechanical Fasteners
- Material layout-sheet goods and solid wood
- Joinery/Doors/Drawers

2nd Semester

- Cabinet Construction
- Industrial Production Cabinetmaking

Students will be able to (based on state standards):

- Demonstrate safe and efficient use and maintenance of hand and machine tools.
- Explain the importance incorporating ergonomics into cabinet/furniture design.
- Develop and follow a plan of procedure.
- Develop an estimate and procure the materials necessary to build a cabinet or piece of furniture.
- Design and build a complete cabinet or piece of furniture.

Course Title: **ADVANCED WOODS (#2814)**
Grade Level: 11-12
Course Credit: 1 Credit
Prerequisite: Woods I & II and Instructor Approval (Instructor approval will be based on final grade of B or better in previous course, work ethic, self-motivation, prior overall performance.)

Course Description: Advanced Woods is a course designed to allow students to explore a variety of technologies within the wood industry, from understanding basic principles of technologies to demonstrating the use of technologies. Areas of technology that students will explore include but are not limited to the following: Wood Technology, Construction, Manufacturing, Design and Engineering. Students will be required to maintain a portfolio during the class to monitor progress made during the course of the year. In this portfolio, students will log time spent on various tasks such as research, listening to lecture and demonstrations, lab application and presentations. The portfolio will be beneficial to the student, so they may present to employers and higher education institutions the skills and knowledge they possess. The goal of this type of program is to encourage students to engage in practical study in areas of interest to them. This offering promotes self-discipline, self-awareness, and self-motivation as they pursue **student** driven learning activities to enhance their portfolios.

Course Title: NORTHWOODS MANUFACTURING – WOODS (2815)
Grade Level: 10-12
Course Credit: 1 Credit
Prerequisite: Woods I & II and Instructor Approval (Instructor approval will be based on interview and complete portfolio.)

Course Description: In Northwoods Manufacturing students will use all skills learned in previous classes to build/create real world manufactured wood products. Students are responsible for quoting jobs, ordering materials, manufacturing parts, quality control, shipping, receiving materials, inventory, invoicing, customer service, accounting, marketing, maintaining work hours and other responsibilities associated with the operation of a manufacturing business.

INDUSTRIAL EDUCATION – METALS

Course Title: METALS I (#2818)
Grade Level: 9-12
Course Credit: 1 Credit

Course Description: A beginner level class giving the students experience in basic machining. Lathe and milling machine operations will be studied throughout the class, projects include can crushers, bearing bunches and other small machining projects. Some computer machine tool basics will also be covered during parts of the class. In this class students will be required to start a portfolio keeping track of their progress in all technology education classes. Inside the binder the students will track competencies they have accomplished in preparation for Metals II and Northwoods Manufacturing.

Course Title: WELDING I (#3589)
Grade Level: 9-12
Course Credit: 1 Credit

Course Description: During this course an introduction of SMAW and GMAW will be covered as well as plasma cutting. Students will be required to complete a series of labs for each welding process. Also covered is basic welding nomenclature and different welding positions. Each student will be required to start a portfolio to track their progress and growth as well as complete a competency checklist.

Course Title: METALS II (#2819)
Grade Level: 10-12
Course Credit: 1 Credit

Course Description: A continuation of Metals I, Metals II gives the student more experience in machining and metrology. Lathe and milling machine operations will be studied throughout the class. Basic CNC machining and the use of Mastercam software will be covered as well. Portfolios are required for this class, with most level 1 machining competencies completed.

Course Title: WELDING II (#3598)
Grade Level: 10-12
Course Credit: 1 Credit

Course Description: During this course a continuation of SMAW and GMAW labs will be covered as well as CNC plasma cutting. Oxyacetylene welding, flux core welding, and GTAW will also be introduced and practiced. Just like in Welding I labs will be introduced and completed by the students on a weekly basis for each welding process being covered. Students will continue to use their portfolio and competency checklist to track their progress through the class.

Course Title: POWER MECHANICS (#2703)
Grade Level: 10-12
Course Credit: 1 Credit
Prerequisite: Metals I

Course Description: This course includes small engine repair on such portable power equipment as lawn and garden machinery, chain saws, outboard and inboard engines, and motorcycles. A brief introduction to oxy-acetylene cutting and mig welding is covered. Further emphasis is placed on automotive repairs and modification. Projects may include automotive repair and modification, snowmobile repair and modification, custom buggy design and build, other small engine repair and modification, etc.

Course Title: NORTHWOODS MANUFACTURING – METALS (2821)
Grade Level: 11-12
Course Credit: 1 Credit

Course Description: In Northwoods Manufacturing students will use all skills learned in previous classes to build/create real world machined/welded parts or products and sell them for profit. This class is as close to a real business as possible. Students are responsible for quoting jobs ordering materials, manufacturing parts, quality control, shipping and receiving materials, inventory, invoicing, customer service, accounting, marketing, maintaining work hours and many other responsibilities.

MATHEMATICS

Course Title: ALGEBRA 1A (#2741)
Grade Level: 9-12
Course Credit: 1 Credit

Course Description: This course is a thorough, intense study of Algebra 1. Algebra 1A typically covers algebraic expressions, equations and functions, properties of real numbers, solving linear equations, graphing linear equations and their functions, writing linear equations, solving and graphing linear equalities, and ending with systems of linear equations and inequalities. Algebra 1A covers the first half of a typical Algebra 1 course and is a prerequisite for Algebra 1B.

Course Title: ALGEBRA 1B (2774)
Grade Level: 10-12
Course Credit: 1 Credit
Prerequisite: Algebra 1A

Course Description: This is the second of two courses which covers the same material as Algebra I, but at a much slower pace. Algebra IB will focus on Systems of Equations and Inequalities, Exponential Functions, Quadratic Functions, Polynomials, Radical Functions, Rational Functions, and Data Analysis.

Course Title: ALGEBRA 1 (#2067)

Grade Level: 9-12

Course Credit: 1 Credit

Course Description: A study of mathematical concepts relating to the structure of the real numbers. The emphasis is on problem solving skills. This course is designed for a student wishing to develop a mathematical background.

Course Title: GEOMETRY (#2069)

Grade Level: 9-12

Course Credit: 1 Credit

Prerequisite: Algebra 8, Algebra 1, or Algebra 1A & Algebra 1B

Course Description: Geometry is also a college preparatory course. It stresses both basic structure of geometry and proficiency in developing formal proofs. Algebra skills are also reviewed as they are applied to solving problems in geometry. In addition to the basic development of geometry, the course includes trigonometry, area and volume, construct, coordinate geometry and transformations and statistics.

Course Title: MATH CONCEPTS (#2066)

Grade Level: 10-12

Course Credit: 1 Credit

Prerequisite: General Math or Algebra 1

Course Description: This course furthers the basic concepts of arithmetic, algebra, statistics and geometry and how they apply to math for consumers and to math in the workplace.

Course Title: ALGEBRA 2 (#2068)

Grade Level: 10-12

Course Credit: 1 Credit

Prerequisite: Grade of C or higher in Algebra 1 or Algebra 1B; Geometry is recommended

Course Description: This course is advised for students preparing for college or going into math-related fields. Algebra II is a continuation of Algebra I and deals with mathematics used as a base for engineering and advanced mathematics.

Course Title: ADVANCED MATH (#2070)

Grade Level: 11-12

Course Credit: 1 Credit

Prerequisite: Geometry, Algebra 2

Course Description: This course is designed to provide a sound basis for calculus through the study of polynomial exponential, logarithmic, and trigonometric functions, matrices, and analytical geometry. Technological explorations are incorporated into each subject.

Course Title: ADVANCED PLACEMENT CALCULUS (#2298)

Grade Level: 12

Course Credit: 1 Credit

Prerequisite: Advanced Math

Course Description: Calculus defines and applies the derivative and integral functions. Derivatives are used to find rates of change, and integrals are used to find the net accumulation of change. Both of these functions are based on the concept of a limit, which is also defined in this course. Technology is incorporated daily into this class, and a graphing calculator is required. A strong background in Algebra and Geometry is recommended. Due to the cross-curricular content, it is helpful to take Physics at the same time. The curriculum follows the curriculum outlined by the College Board, and any student may take the AP test for Calculus AP upon course completion.

MUSIC EDUCATION

Course Title: SENIOR HIGH BAND (#2085)

Grade Level: 9-12

Course Credit: 1 Credit

Course Description: Senior High Band is designed to increase music skills learned in Elementary and Junior High Bands and to prepare you for performing at the college level, if you so choose. Though participation in the feeder bands is not mandatory, an efficient working knowledge of your instrument is required. The Senior High Band performs at many activities throughout the year, such as: concerts, the District Music Festival, athletic games, pep sessions, and parades. Students are required to participate in all performances throughout the year. Music studied and performed varies from traditional to contemporary band literature. All members have the opportunity to participate in the W.S.M.A. Solo Ensemble Festival.

Course Title: HIGH SCHOOL CHORUS (#2086)

Grade Level: 9-12

Course Credit: 1 Credit

Course Description: No audition is needed for this class. A variety of music will be sung from the different genres, including standard choral music, spirituals, folk and pop. Concerts include: The Winter concert in December, Large group festival in February/March, Spring concert in May and Graduation on the Saturday of Memorial Day weekend. Attendance/participation at concerts and graduation counts as part of your grade in this performance class. Solo and Ensemble competition is in March and is optional yet encouraged. This class meets five days a week. Private lessons are available weekly.

SCIENCE

Course Title: PHYSICAL SCIENCE (#2090)

Grade Level: 9

Course Credit: 1 Credit

Course Description: Physical Science is a survey course in which we study the applications of physical laws and chemical processes to matter and energy. Fundamental scientific principles

are introduced through readings, discussions, lectures, and laboratory work. The metric system is studied until it can be used effectively by the student. Units covered include: force and work, laws of motion, atoms and compounds, solids, liquids and gases, chemical elements and solutions and finally, nuclear energy. Physical Science is a prerequisite for all science classes.

Course Title: BIOLOGY I (#2091)

Grade Level: 9-12

Course Credit: 1 Credit

Prerequisite: A limited number of freshmen with B+ average in Science 8 or written recommendation of 8th grade science teacher will be accepted.

Course Description: This course introduces the principles and concepts of biology. Emphasis is on the laws of thermodynamics which are an important unifying principle of biology. The First Law of Thermodynamics, also known as the law of conservation of energy, states that energy can neither be created nor destroyed. It may change from one form to another, but the energy in a closed system remains constant. The Second Law of Thermodynamics states that when energy is transferred, there will be less energy available at the end of the transfer process than at the beginning. In addition to the laws of thermodynamics, basic biological chemistry, cell structure and function, homeostasis, metabolism, genetics, evolution, classification and ecological concepts will be covered during the study of biology. Laboratory exercises reinforce lecture topics and include microscope techniques.

Course Title: BIOLOGY II (#2092)

Grade Level: 10-12

Course Credit: 1 Credit

Prerequisite: Biology I

Course Description: **Human Anatomy and Physiology (Biology II)** is an advanced science course. Students taking this course should be progressing towards a degree in the health sciences, biological sciences, or a nursing field. The course is a strenuous survey of human anatomy that parallels anatomical characteristics of other animals. The course focuses on anatomical terminology, anatomical identification, and physiological processes of human body systems. Topics include body organization; homeostasis; cytology; histology; and the integumentary, skeletal, muscular, digestive, nervous systems, and other body systems during the dissection of a fetal pig. Upon completion, students should be able to demonstrate an in-depth understanding of principles of anatomy and physiology and their interrelationships. Laboratory work includes dissection of preserved specimens, microscopic study, physiologic experiments, computer simulations, and multimedia presentations.

Students enrolled in this course should realize that this course requires an extensive amount of time, effort, reading, and memorization. Successful completion of this class requires dedication, and commitment from the student. Students will be required to participate in a dissection of a fetal pig and learning experiences that could include view live operations on animals or humans.

LEARNING OUTCOMES

Upon completion of this course, the student will demonstrate basic knowledge in the following:

1. Explain the concept of homeostasis, how it interrelates basic human body functions and life processes and demonstrate a knowledge of the organization of the human body.

2. Describe the major anatomical components of each human body system studied, describe briefly their anatomical locations and general structures, and explain their physiological functions at both the organ and cellular levels.
3. Apply the concepts learned in the lecture to understand and analyze laboratory activities and observations.

Course Title: CHEMISTRY I (#2095)

Grade Level: 10-12

Course Credit: 1 Credit

Course Description: Chemistry is the science of matter, primarily its chemical reactions, but also, its composition, structure, and properties. It is often called “the central science” because it connects physics with other natural sciences such as geology and biology. Chemistry I will focus on atoms, the “building blocks of matter” and their interactions with other atoms in chemical bonds. This class is part of the college preparatory curriculum and class time will be an ever changing and evolving mix of lecture, hands-on labs/activities, group discussions, reading/writing assignments, research activities, computer simulations, as well as student directed learning.

Course Title: CHEMISTRY II (#2096)

Grade Level: 11-12

Course Credit: 1 Credit

Prerequisite: Chemistry I with a minimum grade of B- or instructor approval

Course Description: The Chemistry II curriculum is a continuation of the Chemistry I course and is organized to further develop a student’s understanding of both matter and energy. Students will explore both concrete and abstract concepts. Topics will include a more detailed approach to the physical states of matter equilibrium, as well as an introduction to organic chemistry. The combination of both Chemistry I and Chemistry II courses closely mirrors the course description of a typical General/Inorganic Chemistry course found at the college/university level. This class is part of the college preparatory curriculum and is considered an upper-level course. Class time will be an evolving mix of lecture, undergraduate-level laboratory activities, group discussions, and computer simulations with an emphasis on student-directed learning.

Course Title: FIELD BIOLOGY (#2777)

Grade Level: 11-12

Course Credit: 1 Credit

Prerequisite: Physical Science & Biology I

Course Description: This course focuses on the biological concepts of aquatic ecology, forestry, soils/land use, and wildlife. This class will include hands on field researching of American martens, loons, invasive species, and more. Many other activities, labs, and research projects will be included throughout the year.

The class will cover the key points of the Canon Envirothon Curriculum Guidelines. The five highest achieving students will compete as a team in the Wisconsin Envirothon Competition held in April.

The Semester 1 Exam will require students to participate in the Land and Water Conservation Department’s Conservation Speech Contest. Students’ speeches must promote the

conservation of natural resources and the protection or enhancement of environmental quality. Topics should address soil and water conservation issues. Emphasis should be placed on the subject as it relates to your locality or to the state of Wisconsin.

***Students taking this class are required to attend Woods and Waters research outings once a month. Some months there may be additional outings that could include but, not limited to: trail building, visiting natural resource study locations, conferences, and/or sites of interest. Students unwilling to participate in field work activities or class outings will only qualify for a grade of C or less (EVEN IF ALL OTHER CLASSWORK IS TURNED IN OF 'A' QUALITY).**

Course Title: PHYSICS (#2097)
Grade Level: 12
Course Credit: 1
Prerequisite: Algebra 2

Course Description: Physics (Greek *physis*: “nature”) is the natural science that involves the study of matter and its motion through space and time. Concepts of energy and forces are studied in great detail. In general terms, physics is the study of nature and how the universe behaves. This full-year course is designed to introduce the principles of physics and provide appropriate laboratory experiences to supplement these principals. This class is part of the college preparatory curriculum and is considered an upper-level course. Students will also encounter elements of algebra, geometry, and trigonometry. Class time will be an ever-changing and evolving mix of lecture, hands-on labs/activities, group discussions, reading/writing assignments, research activities, computer simulations as well as student-directed/independent learning.

Course Title: ADVANCED S.T.E.M. (#3612)
Grade Level: 11-12
Course Credit: 1 Credit
Prerequisite: This class is available to only Juniors & Seniors who have successfully completed Chemistry 1 and are currently enrolled in either Chemistry 2 and/or Physics.

Course Description: Physical Science (Greek: *physis* “nature”) is the systematic study of the sciences concerned inanimate natural objects, including physics, chemistry, astronomy, and related subjects. This classroom/laboratory learning opportunity will allow highly-motivated students to supplement their current science classes (Chemistry, Physics, Biology) with added exploration of topics that include Inorganic/Organic Chemistry, Electricity, Solar Energy, and many others. Students will encounter the many elements of Science, Technology, Engineering, and Mathematics (S.T.E.M.) primarily through self-guided inquiry.

SOCIAL STUDIES

Course Title: CONTEMPORARY WORLD HISTORY (#2100)
Grade Level: 9-12
Course Credit: 1 Credit

Course Description: The purpose of the course is to provide students with a new viewpoint of the world in which we live. This course focuses on the growth of Western civilization and the

developing concepts that shaped the world dating to the Renaissance, Reformation, Scientific Revolution and the Enlightenment. From understanding those concepts an appreciation is developed to explore what is happening in our world today. It is these moments of time that are so vital to the foundation of Western Civilization. As our current events are dominated by events around the globe it is important to see where the foundation of these events occurs. Ours is a small and shrinking world.

Course Title: ANCIENT WORLD HISTORY (#2101)

Grade Level: 9-12

Course Credit: 1 Credit

Course Description: Ancient World History is a study of mankind from prehistoric times to the middle ages. It is the story of how civilizations developed, and nations became linked into a global community. You will study the diversity, complexity, and unifying themes of the human experience. History teaches us to understand people whose experiences are different from our own. It gives us a greater appreciation for the cultural diversity of the world's people and contributes to our understanding of the causes and effects of events in our own world.

Course Title: UNITED STATES HISTORY (#2102)

Grade Level: 9-12

Course Credit: 1 Credit

Course Description: This course is a general survey of the history of our country featuring the discovery, exploration, conquest and settlement of the new nation. Special emphasis is placed on the ideals upon which the country was founded. Great events will be used in conjunction with this course to aid the students in relating the experience of the past to the events of the present. This course is designed for all students as a means of indoctrinating them into the American way of life with the hope they will better appreciate and understand how to be better citizens in their country.

Course Title: AMERICAN SOCIETY (#2308)

Grade Level: 9-12

Course Credit: 1 Credit

Course Description: This course studies what it means to be part of our American Society. We will deal with full range common issues of the day and what they may mean to your future. We look at the past to understand the present. We study many features of the United States including: education trends, history, legal systems, global economy and foreign relations.

Course Title: ADVANCED PLACEMENT UNITED STATES HISTORY (#2229)

Grade Level: 11-12

Course Credit: 1 Credit

Course Description: Advanced Placement United States History is a year class that fulfills the U.S. History requirement. It is geared for the serious student who intends to pursue post-secondary education and who wants to prepare fully for the college experience while still in high school. The class is open to juniors and seniors and an opportunity will be given and expected for students to participate in the College Board Advanced Placement United States History exam in early May. Depending upon how well the student scores on this exam they may be able to earn up to five credits of college credit.

Course Title: PSYCHOLOGY (#3045)

Grade Level: 9-12

Course Credit: 1 Credit

Course Description: This course is designed to lead to an understanding of human behavior. This course covers such topics as the history of psychology, brain psychology, human development, special topics will be covered using case studies and other articles. This course requires participation in discussions and almost daily reading assignments.

Course Title: PERSONAL FINANCE (#2604)

Grade Level: 9-12

Course Credit: ½ Credit (Semester Course)

Course Description: In this introductory finance course, students learn basic principles of economics and best practices of managing their own finances. Students learn core skills including budgets, developing long-term financial plans to meet their goals, and making responsible choices about income and expenses. They gain a deeper understanding of capitalism and other systems, so they can better understand their role in the economy of society. Students are inspired by experiences of finance professionals and stories of everyday people and the choices they make to manage their money.

PHYSICAL EDUCATION

Course Title: PHYSICAL EDUCATION 9 (#2111)

Grade Level: 9

Course Credit: ½ Credit

Course Description: This course teaches the basic skills needed to play a variety of team and individual sports along with a program of physical conditioning throughout the year. In each grade level, more skill is developed along with learning the fundamentals of officiating.

Course Title: PHYSICAL EDUCATION 10 (#2115)

Grade Level: 10

Course Credit: ½ Credit

Course Description: This course teaches the basic skills needed to play a variety of team and individual sports along with a program of physical conditioning throughout the year. In each grade level, more skill is developed along with learning the fundamentals of officiating.

Course Title: HEALTH (#2113)

Grade Level: 9

Course Credit: ½ Credit

Course Description: This course is part of the physical education course for freshmen. There are units of study on mental health, personal hygiene, drugs, alcohol and tobacco abuse, anatomy, human growth and development, fitness, consumer health, first aid and environmental health.

Course Title: PHYSICAL EDUCATION LIFE SPORTS (#2117)

Grade Level: 11-12

Course Credit: ½ Credit

Course Description: The purpose of this course is to familiarize the students with activities they will be involved with during their lifetime. These activities include units in tennis, bowling (12th grade only), skiing, jogging, golf, archery, aerobics, weights, conditioning, badminton, and volleyball. The student will have a good background in various physical activities to better enjoy more leisure time in today's world. 12th grade physical education will emphasize conditioning activities at least 2 times per week.

Course Title: BFS – WEIGHTLIFTING (#2302)

Grade Level: 11-12

Course Credit: ½ Credit

Course Description: This class is open to juniors and seniors with seniors having top priority if the class becomes full. This is an all year class offered on an every other day basis. The bigger, faster, stronger weightlifting system will be used unless the student has another personal weightlifting plan approved by the instructor.

Course Title: SPORTS MANAGEMENT (#3043)

Grade Level: 9-12

Course Credit: ½ Credit

Course Description: The purpose of this class is to provide an overview of the sport industry that introduces the student to the basic fundamental knowledge and skill sets required of the sport manager to solve sport business problems. Focus will also be placed on understanding career options in the sport industry and preparing for employment. Identifies necessary competencies for sport managers. Topics include: event and facility manager, marketing, media and communications, endorsements, naming rights, licensing, sport media, sports promotion and emerging issues in sports marketing.

STUDY SKILLS

Course Title: STUDY SKILLS

Grade Level: 6-12

Course Credit: 1 Credit

Course Description: This course is designed to assist students learn, understand, and reinforce concepts and/or assignments presented in the general curriculum. Students have the opportunity to develop and strengthen good study habits and learning strategies through various instructional methods and strategies. This course can also assist with social, organizational, and job skills. This course can be added with instructor approval. Credit will be given for this class but no letter grade will be earned (pass or fail only).

TEACHER ASSISTANT

Course Title: TEACHER ASSISTANT

Grade Level: 9-12

Course Credit: 1 Credit

Course Description: Students in grades 11 and 12 can spend one class period working with a staff member on assigned tasks and projects. During this time, students will learn time management, organization, and get a first-hand experience in the classroom or in the cafeteria. Placement will be determined on teacher/student needs.

SCHOOL TO WORK

Course Title: SCHOOL TO WORK (#2053)

Grade Level: 11-12

Course Credit: ½ Credit per semester completed

Course Description: School to work is a supervised work experience program offered to students in grades 11 and 12. School supervised work experience helps you learn about the world of work and develop work skills that are needed for moving into adulthood. During this program you have the opportunity to work at a job either during the school day or after school and earn high school credit provided jobs fall into the Student Career Preparation Plan. To be eligible to participate in a school supervised work experience project the school, employer, parents, and student must enter into an agreement that will specify the rules and learning goals to be achieved. An application and approval are required as a prerequisite to enrollment in this program.

DISTANCE LEARNING OFFERINGS

A list of courses varies from year to year. A list of potential courses will be available in the High School Guidance Office when released by NWECS. Any interested students may pick up this information. These courses are sometimes limited to seating and will only be offered at the times listed. Please meet with Guidance Counselor to arrange for a Distance Learning course.

EARLY COLLEGE CREDIT PROGRAM & START COLLEGE NOW

The Youth Options statute (118.55) was renamed the Early College Credit Program, which allows Wisconsin public and private high school students to take one or more courses at an institution of higher education for high school and/or college credit. Under this section, “institution of higher education” means an institution within the University of Wisconsin System, a tribally controlled college, or a private, nonprofit institution of higher education located in the state. For questions about this information, please contact Mrs. Eder at 715-561-4900 ext. 280.

Start College Now (38.12(14)) allows WI public school pupils that have completed 10th grade to have the option to take courses at technical colleges through a separate statute Start College Now, 38.12(14). For questions about this information, please contact Mrs. Eder at 715-561-4900 ext. 280.