

# Unity High School Course Description Booklet 2017-2018

Revised December 2016

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# AGRICULTURE

(Classes with an "\*" indicate advanced standing at WITC campuses)

## **ANIMAL SCIENCE \*(WITC #31091348)**

Course # 1135

Transcripted Credits through WITC—2 credits

Elective 9—12 / 1st or 2nd Semester / .5 credit

This semester course will provide hands on activities and applied science concepts as they relate to Animal Science.

Topics to be discussed will include animal agriculture as a science, the large animal industry, poultry, dairy, alternative animal production. General information on animal behavior, genetics, feeding, selection, reproduction, and health will be presented. Research papers will be required. Participation in FFA contests and individual award programs in the areas of Animal Science will be encouraged.

## **CAREER READINESS AND SERVICE LEARNING**

Course #1197

Elective 11—12 / 1<sup>st</sup> or 2nd Semester / .5 credit

Career Readiness is a program where students will attain employability skills in a chosen occupational field by combining classroom instruction with learning opportunities through a job shadowing experience. This will include the development of a Career Portfolio to include resume, job applications, letters of reference, college applications, thank you notes, interview information, and a job checklist for the job shadowing experience. The Service Learning component of the class will allow students the opportunity to be a part of community identified issues and solutions by developing the students sense of citizenship and their role within society. It will support youth leadership and develop awareness of the non-profit sector of our community. Youth Apprenticeship students are encouraged to take this class to meet the needs of your employability skills checklist.

## **CONSERVATION**

Course #1136

Elective 9—12 / 1st Semester / .5 credit

This semester class will use hands-on applied science concepts in a variety of natural resource related topics. These topics will include: a historical perspective to natural resources, soil and land resources, water management, forest resources, fish and wildlife management, outdoor recreation resources, energy, mineral and metal resources and advanced concepts in natural resources. Utilization of the school forest and trail will be used in addition to area resources. Research projects will be required. Participation in FFA contests and individual awards will be encouraged in the areas of natural resources.

## **FOOD PROCESSING**

Course #1137

Elective 9—12 / 1st Semester / .5 credit

This semester course will discuss food production and processing techniques utilizing hands-on activities and applied science concepts. Topics will include production and processing of cereals and grains, dairy products, meat and egg processing and grading, fruit and vegetables. A variety of processing methods will be used from dehydration, preservation and butchering techniques. Research projects will be completed. Participation in FFA contest and individual awards will be encourage in areas of food processing, biotechnology, and meat evaluation.

## **FORESTRY**

Course #1140

Elective 9—12 / 2nd Semester / .5 credit

This semester course will use hands-on activities and applied science concepts in the discussion of forest management. Utilization of the school forest trail will be used in maintaining and upgrading the current facility. Topics to be included in the Forestry class are forestry basics and scope, forest ecology, tree study, land and forest product measurements, the forest and its environment, civil culture practices, artificial reforestation, economics of resource management, wood characteristics identification and uses, harvesting and manufacturing forest products, wood preservation, fire in the forest, insects and diseases and wood as an energy source. Research papers will be required. Participation in FFA activities and individual awards will be encouraged in the areas of forestry, fiber crop production and other natural resources.

### **GREENHOUSE MANAGEMENT & LANDSCAPING**

Course #1139

Elective 9—12 / 2nd Semester / .5 credit

Pre-requisite: Horticulture

This semester course will provide hands on opportunities and applied science concepts dealing with ornamental plants. The school greenhouse and school grounds will be utilized as well as area resources. Topics and activities will include areas of the greenhouse industry and career opportunities, plant growth requirements in the greenhouse, plant propagation techniques, production of selected greenhouse crops, container grown crops, small fruit gardens, pesticides, plants in the landscape, vegetable production. Hydroponics will also be discussed. Participation in FFA contest and individual awards will be encouraged in the areas of plant science and landscaping.

### **HORTICULTURE**

Course #1141

Elective 9—12 / 1st Semester / .5 credit

This semester course will discuss areas of plant science and crop production using hands-on activities and applied science concepts. Use of the school greenhouse, school grounds and other area resources will be utilized. Topics to be covered include the horticulture industry and career opportunities, how plants grow, plant taxonomy, plant propagation, pesticides, greenhouse crops, holiday and flower arrangements, plant improvement and hydroponics. Research projects will be completed. Participation in FFA contest and individual awards will be encouraged in areas of horticulture and plant sciences.

### **INTRODUCTION TO AGRISCIENCE**

Course #1134

Elective 9—12 / 1st or 2nd Semester / .5 credit

This introductory course will cover a broad array of agriculture related topics to give an overview of the agriculture industry. Areas of study will include agriculture as a science, careers in agriculture, leadership, natural resource management, plant science, animal science and agribusiness/entrepreneurship planning. Participation in FFA related activities will be encouraged and explored.

### **SMALL ANIMAL & HORSE CARE**

Course #1143

Elective 9—12 / 1st Semester / .5 credit

This semester course will use hands-on activities and applied science concepts to learn about horses and a variety of small animals such as dogs, cats, rabbits, cage animals, birds and fish. Animal welfare/rights, feeding, breeding, general health will be discussed. Research reports will be required. Participation in FFA contest and individual awards will be encouraged in areas of horse, small animal care, and biotechnology.

### **WILDLIFE MANAGEMENT**

Course #1144

Elective 9—12 / 1st Semester / .5 credit

This semester course will provide hands-on opportunities and applied science concepts in the areas of wildlife management and aquaculture. Topics to be included are ecology basics, ecology of mammals, birds, fish, reptiles and amphibians, wildlife and fisheries managements concepts will be discussed. Taxidermy and the use of the school forest trail will be utilized, including research papers. Participation in FFA contest and individual awards will be encouraged in the areas of wildlife management and natural resources.

### **YOUTH APPRENTICESHIP**

Course #1199

Elective 11—12 / 1<sup>st</sup> or 2<sup>nd</sup> Semester / .5 credit

Youth Apprenticeship integrates school-based and work-based learning to instruct students in employability and occupational skills defined by Wisconsin industries. Local programs provide training based on statewide youth apprenticeship curriculum guidelines, endorsed by business and industry. Students are instructed by qualified teachers and skilled worksite mentors. Students are simultaneously enrolled in academic classes to meet high school graduation requirements, in a youth apprenticeship related instruction class, and are employed by a participating employer under the supervision of a skilled mentor.

### **(IS) AGRICULTURE**

Course #1145

Elective 12 / 1st or 2nd Semester / .5 credit

The following areas may be studied: natural resources, leadership, plant science, and animal science. Only seniors who have INSTRUCTOR PERMISSION will be allowed in this class. Prior enrollment in an agriculture class is needed.

# ART

## **CERAMICS & SCULPTURE I**

Course #1296

Elective 9—12 / 1st or 2nd Semester / .5 credit

This course are designed for students who have an interest in working with clay and other sculptural materials, and gives students experiences in making functional as well as sculptural pieces, using a variety of techniques. Well though out forms, designs and functional uses along with good craftsmanship are emphasized.

## **CERAMICS & SCULPTURE II**

Course #1297

Elective 10—12 / 1st or 2nd Semester / .5 credit

Pre-requisite: Ceramics & Sculpture I

Ceramics & Sculpture II is a continuation of the level one course, with increased emphasis on developing a personal direction and focus in sculpture and/or ceramics.

## **COMBINED VISUAL ARTS**

Course #1289

Elective 9—12 / 1st or 2nd Semester / .5 credit

Combined Visual Arts introduces students to a wide range of art areas and techniques and hopefully will encourage them to take specific courses in the future. This course is designed for the student that wants a taste of the arts without being too specific on subject matter or medium. Drawing, printmaking, painting, pottery, Photoshop, commercial art, and photography will be explored.

## **DESIGN**

Course #1293

Elective 9—12 / 1st or 2nd Semester / .5 credit

Learn design principles as they relate to communication arts through selective areas. The areas of emphasis include graphic design, package design, architectural design, fashion design, and automotive design.

## **DIGITAL PHOTOGRAPHY**

Course #1295

Elective 9—12 / 1st or 2nd Semester / .5 credit

Join us and explore the world of digital photography! Student emphasis will be placed on the production and analysis of expressive and thoughtful artwork. Students will be introduced to the basic technology necessary for the production of digital photography. Photographic vocabulary such as: composition, "rule of thirds", symmetry, balance, and depth of field will be discussed in detail. The artwork and practice of well-known photographers will be examined. Students must have their own digital camera.

## **DRAWING I**

Course #1040

Elective 9—12 / 1st or 2nd Semester / .5 credit

Drawing I provides an introduction to the art of drawing. The coursework follows a sequence of studies that introduces basic drawing techniques, media, and composition through observation of natural and manufactured forms.

## **DRAWING II**

Course #1292

Elective 10—12 / 1st or 2nd Semester / .5 credit

Prerequisite: Drawing I

Drawing II explores in greater depth the drawing techniques, media, and methods of composition that were introduced in Drawing I, with emphasis on the human form.

## **PAINTING I**

Course #1041

Elective 9—12 / 1st or 2nd Semester / .5 credit

This course is an exploration of painting techniques and concepts designed to expand awareness of painting. Students have the opportunity to work with acrylic paints, water color, and oil pastels. The course concludes with the development of a self-directed painting project.

**PAINTING II**

Course #1294

Elective 10—12 / 1st or 2nd Semester / .5 credit

Prerequisite: Painting I

Painting II is a continuation of Painting I, with increased emphasis on developing a personal direction and focus in painting. Students are expected to declare a set of painting goals at the start of the course, formally and thematically related, to begin the process of creating a body of work for portfolio development.

**(IS) ART**

Course #1044

Elective 10—12 / 1st or 2nd Semester / .5 credit

Pre-requisite: One previous art course with 3.00 GPA

These courses are arranged with the teacher. Teacher's approval is required. The requirements for grading follow the same format as scheduled courses.

# BUSINESS EDUCATION

(Classes with an "\*" indicate advanced standing at WITC campuses)

## **ACCOUNTING I \*(WITC 10101101)**

Course #1086

Advanced Standing Credits through WITC— 4 credits

Elective 9 —12 / 1st or 2nd Semester / .5 credit

Complete accounting cycle, special journals, payroll tax principles, special procedures, and financial statements.

Accounting application through practice set approach. The students will have a clear understanding of the accounting process, the accounting cycle, the accounting equation, and how financial statements report the condition of a business.

## **ACCOUNTING II**

Course #1087

Elective 10—12 /2nd Semester / .5 credit

Pre-requisite: 3.00 GPA in Accounting I

This is an extension of Accounting I involving the foundations of financial accounting. The scope of study focuses on an introduction to accounting systems practice in accounting for merchandising businesses, implementing internal control procedures and accounting for cash, accounting for receivables, and accounting for current liabilities and payroll.

Understanding is based both on theory and application.

## **EMPLOYABILITY SKILLS**

Course #1192

Elective 11—12/ 1st or 2nd Semester / .5 credit

This course is designed to facilitate success affecting the academic, professional, and personal lives of students.

## **EXPLORING COMPUTER SCIENCE**

Course #3243/3244

Elective 11—12/ Year Course / .5 credit per semester

This course consists of six units, approximately six weeks in length each. Assignments and instruction are contextualized to be socially relevant and meaningful for diverse students. Units utilize a variety of tools/platforms, and culminate with final projects around the following topics: Human Computer Interaction (components of a computer including input, output, memory, storage, processing, software, and operating systems), Problem Solving (covers the basic steps in algorithmic problem-solving), Web Design (students prepare to take the role of a developer by expanding their knowledge of programming and webpage design), Programming (students are introduced to some basic issues associated with program design and development), Computing & Data Analysis (students explore how computing has facilitated new methods of managing and interpreting data), and Robotics (students apply previously learned topics to the study of robotics and work in small groups to build and program a robot to perform a required task.

## **INFORMATION PROCESSING**

Course #1080

Advanced Standing Credits through WITC—1 credit

Elective 9—12 / 1st or 2nd Semester/ .5 credit

This hands-on course covers formatting styles of business letters, business and academic reports, memos, tables, and business documents. The course also includes drill work for improving keying speed and accuracy.

## **INTRODUCTION TO BUSINESS\*(WITC 101051000)**

Course #1089

Advanced Standing Credits through WITC—3 credits

Elective 9—12 / 1st or 2nd Semester / .5 credit

This is an introductory course designed to develop an understanding of the activities, functions, and principles of business enterprises. The course helps to gain insight into the responsibilities and challenges of operating a business. Emphasis is on the interaction of the various functions required to operate businesses of all sizes. Specifically, the areas of business trends, ownership models, leadership, human resources, marketing, information management, and finance will be explored.

### **INTRODUCTION TO MARKETING**

Course #1284

Elective 9—12 / 1st or 2nd Semester / .5 credit

This course will provide students with a thorough understanding about the principles of marketing. The course will demonstrate the importance behind marketing one's self in the 21<sup>st</sup> Century and will showcase the value of marketing skills in today's workplace. Students will also learn how to use programs like Photoshop, iMovie, and other media platforms to create a marketing portfolio and build strong 21<sup>st</sup> Century skills.

### **MICROSOFT OFFICE I**

Course #1091

Advanced Standing Credits through WITC—3 credits

Elective 10—12 / 1st or 2nd Semester / .5 credit

Students will create, edit, view and print basic documents using word processing, spreadsheets, database and presentation software. Students will learn word processing using Microsoft Word. Credit A activities will include creating, editing, saving, formatting, printing, and other basic MS Word features. Students will also learn to use MS Excel. Credit A activities will include creating, editing, saving, formatting, printing, performing calculations, and enhancing worksheets through charts.

### **MICROSOFT OFFICE II**

Course #1092

Elective 10—12 / 1st or 2nd Semester / .5 credit

Credit B activities include tables, mail merge, sort, graphics, and special features of MS Word. A complete presentation graphics course that allows you to produce professional-looking presentations. It gives you the flexibility to make informal presentations using overhead transparencies, electronic presentations, or virtual presentations. Additionally, you can create paper printouts, outlines, speaker notes, and audience handouts.

### **PERSONAL FINANCE**

Course #1100/1101

Required 10 / Year Course / .25 credit per semester

Personal Finance is a course that will have students look at many financial aspects of their life. Topics may include financial planning careers, financial records, banking, consumer credit, housing, investing in stocks, bonds and mutual funds, real estate, income taxes, insurance and estate planning.

### **YEARBOOK**

Course #1093 / 3242

Elective 11-12 / Year Course / .5 credit per semester

Pre-requisite: Info Processing

This course will offer students the opportunity to use their computer knowledge, communication skills, team working skills and creativity to create the yearbook. The first semester will consist of learning the program's software and how to use digital cameras. The second semester will focus on completion of the yearbook page.

# FOREIGN LANGUAGE

## **SPANISH I**

Course #1167/2167

Elective 9—12 / Year Course / .5 credit per semester

Spanish I will provide the student with a general introduction to the Spanish language: sound system, pronunciation, functional vocabulary related to everyday life, cultural information and basic grammatical structures in present tense. Emphasis will be on the acquisition of four skills: listening, speaking, reading and writing. There are two main goals for the course. Foremost is to give the students the ability to carry on simple conversations and secondly to provide students with instruction that teaches a basic understanding of Spanish culture, vocabulary, and grammatical concepts.

## **SPANISH II**

Course #1168/2168

Elective 10—12 / Year Course / .5 credit per semester

This course will reinforce the skills learned in Spanish I: listening, speaking, reading, and writing. Emphasis is on perfecting pronunciation, mastery of the basic grammatical structures, and increased communicative proficiency using comprehensible input techniques, which is an optimized immersion experience. Acquisition of functional vocabulary is expected. Students will be exposed to the past tenses, future, conditional, and present progressive. Students will be expected to apply them in their writing and speaking.

\*See Northern Lights Network section for more opportunities!

# FRESHMAN SUCCESS & LIFE SKILLS

## **FRESHMAN SUCCESS**

Course #1067/1069

Required 9th grade / Year Course / .25 credit per semester

This course is designed to assist each individual student with developing an individualized long-term plan based on goals related to personal development, career planning, academic achievement and character development. Students will complete formal and informal assessments in order to better understand their own personality type, learning style, academic strengths, weaknesses and aptitudes. Students will use these results to develop a personal profile that will assist them with identifying career clusters best suited to their strengths and interests. Assessment results will also be used to develop an appropriate path through high school that will prepare them for their post-secondary goal.

## **LIFE SKILLS**

Course #1079

Elective 9—12 / 1st or 2nd Semester / .5 credit

The Life Skills curriculum is a value-based approach in helping adolescents make healthy lifestyle decisions, promote positive self-esteem, develop traits found in successful people and explore current issues that adolescents face as they grow to maturity. This course meets the Wisconsin State Health Education requirement.



# **LANGUAGE ARTS**

**(Graduation Requirement – 4 credits)**

## **AP ENGLISH LITERATURE**

Course #1003/1204

Elective 12 / Year Course / .5 credit per semester

This class will prepare the student for the AP English Literature and Composition exam held in the spring. A variety of literature will be read and analyzed in a number of ways. Many essays will be written, critiqued, and evaluated, and discussions will be held on how to improve those essays. Preparing for the exam will include being exposed to test-taking strategies, as well as having the opportunity to take practice exams.

## **COLLEGE PREP ENGLISH**

Course # 1201/1202

Elective 12 / Year Course / .5 credit per semester

This course is designed for students who plan on going to post-secondary schooling. Students will have opportunities to work on college applications and application essays, as well as completing scholarship searches and writing scholarship essays. Students will be reading material that will prepare them for college, and they will write essays in a manner asked for in a college English class.

## **CREATIVE WRITING**

Course #1008

Elective 11—12 / 1st or 2nd Semester / .5 credit

Pre-requisite: English 9 and English 10

This course is designed for students who enjoy writing or want to explore a variety of writing styles and forms. Students will write in a variety of forms: poetry, narratives, short stories, thematic books, and many others. Also, students will learn to edit and critique their work, as well as the work of others. Students will produce a portfolio of their writing by the end of the course.

## **ENGLISH 9**

Course #1004/1009

Required 9th grade / Year Course / .5 credit per semester

English 9 provides a basic introduction to and explanation of various forms of literature including fiction, non-fiction, drama, and poetry. Students will learn how to compose complex and compound sentences, how to write a thesis, and how to organize an extended essay. Writing instruction focuses on preparing students to meet and exceed high school level academic standards. Spelling, grammar, punctuation, mechanics, and vocabulary are regular features of the class.

## **ENGLISH 10**

Course #1005/1010

Required 10th grade / Year Course / .5 per semester

English 10 provides continued development of skills learned in English 9. Students will be exposed to a variety of texts and a variety of writing styles. English 10 is designed around thematic units, allowing students to learn large concepts through a variety of mediums. Additionally, students will be exposed to test taking strategies, vocabulary, and grammar.

## **ENGLISH 11**

Course #1007/1206

Required 11th grade / Year Course / .5 per semester

English 11 is a year-long intensive reading and writing English course for juniors. This is a survey course that covers American Literature from the 15<sup>th</sup> century to the beginning of World War II. Students will be exposed to poetry, plays, short stories, political documents, speeches, songs, novellas, and novels written by American authors. Reading comprehension, written and oral communication skills, and critical thinking skills will continue to be developed as students prepare for college, technical school, internships, and life beyond Unity High School.

### **GRAMMAR AND WRITING**

Course #1002

Elective 10—12 / 1st or 2nd Semester / .5 credit

This challenging course is designed to prepare students for college-level writing or advanced writing. Additional class time is available to cover the English section of the ACT for underclassmen preparing for the exam. The course covers parts of speech, mechanics, usage, and effective writing techniques. Emphasis will be on working toward mastery of grammar and writing conventions. While some of the reading and writing will be creative in nature, much of the content will lean toward professional, academic, and technical literature and writing.

### **LITERATURE THROUGH FILM**

Course #1200

Elective 11-12 / 1st or 2nd Semester / .5 credit

This course will explore, analyze, and critique literature and film. Students will be exposed to a variety of literature and their film adaptations. Students will compare and contrast the portrayal of literary devices in film and literature through class discussion, research, reading, and writing. This course will encourage students to voice and defend their opinions of the media being discussed.

### **PUBLIC SPEAKING**

Course #1021

Elective 11-12 / 1st or 2nd Semester / .5 credit

This course provides the opportunity to significantly improve your public speaking skills by practicing and delivering speeches in a safe environment with personalized feedback. An emphasis will be placed on real world communication skills and speech preparation. In addition, video recording and self-evaluation will help you rapidly strengthen your speaking skills. Strong public speaking skills will serve you well in college and beyond!

### **READING I (FORMERLY KNOWN AS READING 9)**

Course #1001/1205

Elective 9 - 12 / Year Course / .5 credit per semester

Teacher Recommendation based on Standardized Test Scores

This course is a reading supportive class for students, which is structured around Scholastic's READ180: The Next Generation reading curriculum. Small group work, individualized computer work, and silent reading are main components of the course. Reading comprehension, reading foundations, grammar, and writing will be taught throughout the course at the pace that is designed to help support student growth. This course will allow students to develop the reading skills necessary to be successful in high school and beyond.

### **READING II**

Course #1188/1189

Elective 10-12 / Year Course / .5 credit per semester

Teacher Recommendation based on Standardized Test Scores

This course is a reading supportive class for students. Small group work, individualized computer work, and silent reading are main components of the course. Reading comprehension, reading foundations, grammar, and writing will be taught throughout the course at the pace that is designed to help support student growth. This course will allow students to develop the reading skills necessary to be successful in high school and beyond.

### **(IS) LANGUAGE ARTS**

Course #3211

Elective 11—12 / 1st or 2nd Semester / .5 credit

Pre-requisite: Junior/Senior in good standing and Language Arts instructor referral

# MATHEMATICS

(Graduation Requirement – 3 credits)

## **ALGEBRA I**

Course #1051/1281

Required 9th grade or Pre-Algebra/ Year Course / .5 credit per semester

This College Preparatory Mathematics (CPM) course emphasizes the student becoming an active participant in their learning through teams. Topics covered will include: functions, linear relationships, representing expressions, simplifying and solving, systems of equations, sequences, modeling two-variable data, exponential functions, quadratic functions, solving quadratics and inequalities, exponential functions, and functions & data.

## **ALGEBRA II**

Course #1053/1222

Elective 10—12 / Year Course / .5 credit per semester

This course will be using the College Preparatory Mathematics (CPM) curriculum, Core Connections Algebra II. Students will work in groups of four, working collaboratively throughout each chapter. Topics covered include: working with functions, transformations of graphs, equivalent expressions, solving equations, inverse functions, logarithms, trigonometric functions, graphing polynomials, survey design, and series.

## **CALCULUS**

Course #1056/1241

Elective 11—12 / Year Course / .5 credit per semester

Pre-requisite: Algebra I, Algebra II, Geometry & Pre-Calculus with Trigonometry

A course designed for students interested in pursuing a career in science, computer programming, engineering, etc. Provides a thoroughly sound introduction into calculus and prepares for more formal study in calculus. The course covers materials in plane and solid analytic geometry, the differential and integral calculus and some work on differential equations. Top students will be encouraged to take the AP Calculus BC exam.

## **GEOMETRY**

Course #1052/1221

Elective 9—12 / Year Course / .5 credit per semester

Pre-requisite: Algebra I (Students in geometry will be able to use geometric concepts, relationships and procedures to interpret, represent and solve problems).

Geometry and its study of shapes and relationships is an effort to understand the nature and beauty of the world. While the need to understand our environment is still with us, the rapid advance of technology has created the need to understand ideas communicated visually through electronic media. For these reasons, educated people in the 21st Century need a well-developed sense of spatial order to visualize and model real world problem situations.

## **PRE-ALGEBRA**

Course #1050/1219

Required 9th grade (or Algebra I) / Year Course / .5 credit per semester

This course is taught from CPM (Course Preparatory Mathematics) Course 3. Students will work in four-person collaborative groups in a discovery approach. They will use manipulatives and technology to form definite foundations and make connections for dealing with abstract algebra concepts. They will be encouraged to write and speak mathematically as they write and explain their thinking.

## **PRE-CALCULUS WITH TRIGONOMETRY**

Course #1054/1223

Elective 11—12 / Year Course / .5 credit per semester

Pre-requisite: Algebra I & II and Geometry

This course will be using the College Preparatory Math (CPM) Pre-Calculus curriculum. Students will work in groups of four, working collaboratively throughout each chapter. This course is highly recommended for students who are pursuing post-secondary education. Topics covered include: transformations of functions, piecewise functions, area under curves, exponentials and logarithms, trig identities, intro to limits, trig equations, rates of change, and vectors.

**STATISTICS**

Course #1059

Elective 11—12 / 1st or 2nd Semester / .5 credit

Pre-requisite: Algebra II

This course is designed as an intro to statistics course for juniors/seniors interested in extending their mathematics knowledge. Statistics is a branch of mathematics dealing with the collection, analysis, interpretation and presentations of numerical data. Topics include: probability distributions, confidence intervals, and hypothesis testing.

**TECHNICAL MATHEMATICS**

Course #1220/1229

Elective 12 / Year Course / .5 credit per semester

This course will provide the student with hundreds of relevant mathematical real-world examples and applications.

Topics covered include: graphing, personal finance, measurement, statistics, and logic.

**TRANSITION MATH (FORMERLY KNOWN AS RTI MATH)**

Course #6004/6005

Elective 10-12 / Year Course / .5 credit per semester

Teacher Recommendation based on Standardized Test Scores

This course is a mathematics supportive class for students. Individually computer work in addition, subtraction, multiplication, division, fractions, and more are main components of the course. This course will allow students to develop the mathematical skills necessary to be successful in high school and beyond.

**(IS) MATH**

Course #3022

Elective 12 / 1st or 2nd Semester / .5 credit

Independent Study Math is available to students who have completed the advanced math tract through Calculus. The (IS) is then to be arranged through the University System with the student making contact with assistance from the guidance office.

\*See Northern Lights Network section for more opportunities!

# MUSIC

## **ADVANCED PLACEMENT (AP) MUSIC THEORY**

Course #3210/3212

Elective 11—12 / Year Course / .5 credit per semester

Not offered for 2015-2016, next offered for 2016-2017

Pre-requisite: Some formal music training (i.e. Band, Choir, Piano Lessons, etc.) or consent of instructor

Students will learn advanced techniques of music theory including written and aural theory. The class will work out of the standard AP book, learning the basic building blocks of music. Music notation and terminology will be a fundamental aspect of this course. The course will cover composition, ear training, counterpoint, improvisation, and form and structure. There will be instruction given on score analysis, sight-singing, and harmonic and melodic dictation. Students enrolling in this course should be working on their performance skills in a music class outside of music theory. This course is a great choice if a student has an aspiration of majoring or minoring in music in college, or if a student would like to understand music in a deeper sense than just performance.

## **BAND (SYMPHONIC)**

Course #3215/3216

Elective 9—12 / Year Course / .5 credit per semester

Pre-requisite: Band in succession from MS/HS or special permission from instructor.

Symphonic Band is for students who are wishing to continue their musical experience from middle school all the way to Senior level. The band plays a good variety of musical styles and progresses in difficulty based on the level of the musicians.

## **REQUIREMENTS OF THE SYMPHONIC BAND CLASS**

Band students are expected to display the highest qualities of citizenship and responsibility. Private and group lessons with the band instructor are required and are scheduled during the school day. Number of lessons to be completed is at the discretion of the band instructor and may vary from quarter to quarter. Practice outside of class is necessary to succeed in Symphonic Band. Various assessments will be completed ranging from group to individual formats as well as performance and written formats. These will include assessments of advanced musical interpretation and techniques on the student's instrument, major and minor scales, musical terminology, basic music theory, basic transcribing, and basic musical composition.

Symphonic Band performances include, but are not limited to: three (3) concerts, Marching Band field shows and performances, Pep Band, Senior Graduation, and Memorial Day services. Attendance by all band members is mandatory and is considered a normal part of the course. The director prior to the event must approve any deviation from these events, and alternate work to earn credit for the event must be completed by the assigned date. Optional performances include WSMA Solo & Ensemble and any chamber ensembles that students wish to form. In order to participate in Solo & Ensemble, a student must be enrolled in one (1) of the bands.

## **CONCERT CHOIR**

Course #1029/1280

Elective 9—12 / Year Course / .5 credit per semester

in this choir obligate themselves to be present for all performances. There will be at least four concerts per year, plus a number of clinics and other opportunities to perform in the community. Music learned in this class ranges from a number of genres, languages, and cultures. Some class time is devoted to learning and/or reinforcing the basic fundamentals of music, which are necessary for becoming intelligent and literate musicians. To participate in Solo & Ensemble students must be enrolled in Concert Choir-or Vocal Jazz.

## **DRUMMING FOR NON-DRUMMERS**

Course #3280

Elective 9—12 / 1st or 2nd Semester / .5 credit

This course is for students who want to be a part of an ensemble, but have little or no music training. The class starts with basic rhythm and deciphering music notation and culminates with a performance of a percussion ensemble. Topics will include techniques on counting, stick control, equipment maintenance, snare drum rudiments, drum-set techniques, beginning mallet work, and percussion ensembles. Students will be required to perform in at least one concert. Student will be required to purchase drumsticks.

### **INSTRUMENTAL TECHNIQUES**

Course #3209

Elective 9—12 / 1<sup>st</sup> or 2<sup>nd</sup> Semester / .5 credit

No previous musical training required. Students will explore all wind band, percussion, and other instruments throughout the course of study. Emphasis will be put on learning how to play these new instruments and offer an opportunity for students to help teach their primary instrument to their peers. This is a great opportunity for music students to diversify their music education. Students will learn the trumpet, French horn, trombone, tuba/euphonium, flute, clarinet, saxophone, and double-reed instruments, piano, guitar, bass guitar, and drums among others.

### **JAZZ COMBO**

Course #3225/3226

Elective 9—12 / Year Course / .5 credit per semester

Pre-requisite: Concurrent participation in Symphonic Band or special permission from instructor.

Students in Jazz Combo will learn how to play in a jazz rhythm section. The Jazz Combo will include a bass player, drummer, piano player, guitarist, and wind instrument player(s) (trumpet, trombone, saxophone, flute, clarinet, etc). Students in Jazz Combo are highly encouraged to transition into full size Jazz Ensemble in future semesters. We will play a variety of music including jazz, rock, funk, ballad, Latin, and others. This ensemble will perform at concerts and festivals along with the Jazz Band. This course is great for underclassmen (especially drummers, bass players, piano players, and guitar players) to get great experience playing jazz!

### **JAZZ ENSEMBLE**

Course #1025/1277

Elective 9—12 / Year Course / .5 credit per semester

Pre-requisite: Concurrent participation in Symphonic Band or special permission from instructor.

The jazz ensemble works on advanced musical interpretation of jazz music, as well as advanced techniques of improvisation and transcription. We play a variety of music from rock and funk to Latin and swing. We perform at all three normal concert band concerts. These are a required part of the class.

### **VOCAL JAZZ**

Course #1027/1279

Elective 10—12 / Year Course / .5 credit per semester

Pre-requisite: Concurrent participation in Concert Choir or special permission from instructor.

The Vocal Jazz Ensemble is open to all students by auditions. The music performed is of all types of jazz, and potentially other genres as well. Emphasis is placed on personal vocal development, music reading skills and choral vocal skills. Students accepting membership in the VJE are obligated to be present at all performances. These will be at least four concerts per year, plus a number of clinics and other opportunities to perform in the community. To participate in Solo & Ensemble students must be enrolled in Vocal Jazz or Concert Choir.

# PHYSICAL EDUCATION

(Graduation Requirement – 1.5 credits)

## **FALL LIFETIME SPORTS**

Course #3301

Elective 10—12 / 1st Semester / .5 credit

This course is offered to meet the needs of students who prefer recreation-oriented activities. Activities may include tennis/horseshoes, golf, Frisbee golf, speedball/ultimate Frisbee, rock wall, volleyball, badminton, softball, swimming, pickleball, table tennis, snowshoe/cross country skiing and fitness.

## **FALL TEAM SPORTS**

Course #3302

Elective 10—12 / 1st Semester / .5 credit

This course is offered to meet the needs of students who prefer team activities. Activities may include soccer, speedball, flag football, volleyball, basketball, organized games, and fitness.

## **LIFEGUARD CERTIFICATION**

Course #3303

Elective 10—12 / 2nd Semester / .5 credit

Pre-requisite: Successfully completed 9th grade community water safety

Lifeguarding is more than saving lives. Through classroom learning and hands-on practice, you will learn: surveillance skills to help you recognize and prevent injuries, first aid training and CPR certification, rescue skills in the water and on land, professional lifeguard responsibilities, and water and land fitness.

## **PHYSICAL EDUCATION 9**

Course #3304/3305

Required 9th grade / Year Course / .25 credit per semester

Freshman Physical Education will emphasize fundamentals, rules, basic strategy, teamwork, and sportsmanship in team and individual/dual sports, fitness, basic water rescue and CPR. This class meets 3 days a week. PE 9 is required for graduation.

## **PHYSICAL EDUCATION 10**

Course #3306/3307

Required 10th grade / Year Course / .25 credit per semester

Sophomore Physical Education will emphasize fundamentals, rules, basic strategy, teamwork, and sportsmanship in team and individual/dual sports, fitness, basic water rescue and CPR. This class meets 3 days a week. PE10 is required for graduation.

## **PHYSICAL FITNESS**

Course #3308

Elective 10—12 / 1st or 2nd Semester / .5 credit

This course is designed for students who are interested in achieving and maintaining a higher level of physical fitness.

This class is designed to teach students how to set, achieve, and maintain individual fitness goals. Programs used are "Insanity", "10-Minute Trainer", "Tae Bo", along with others. This class will cover physical fitness three (3) days a week and cover weightlifting the other two.

## **SPRING LIFETIME SPORTS**

Course #3309

Elective 10—12 / 2nd Semester / .5 credit

This course is offered to meet the needs of students who prefer recreation-oriented activities. Activities may include tennis/horseshoes, golf, Frisbee golf, speedball/ultimate Frisbee, rock wall, volleyball, softball, badminton, pickleball, swimming, table tennis, snowshoe/cross country skiing and fitness.

## **SPRING TEAM SPORTS**

Course #3310

Elective 10—12 / 2nd Semester / .5 credit

This course is offered to meet the needs of students who prefer team-oriented activities. Activities include basketball, archery, organized games, fitness, soccer, softball, speedball, and ultimate football/Frisbee.

### **ATHLETIC TRAINING (FORMERLY STRENGTH & CONDITIONING FOR ATHLETES)**

Course #3298/3299

Elective 9—12 / 1st or 2nd Semester / .5 credit

This course is designed for students who are self-motivated, are involved in interscholastic athletics and want to excel. While targeting students who are in athletics, Athletic Training is designed to develop strength, speed, flexibility, agility, muscle memory, spatial awareness, biomechanics, cardiovascular fitness, and reaction. Extensive and intense work will be designed to increase performance and prevent injuries with weight training three (3) days a week, as well as two (2) days of cardio conditioning. Additionally, healthy lifestyle choices will be emphasized including wellness and conditioning. Athletes who participate in extracurricular sports are highly encouraged to take this course both semesters.

### **TEACHERS ASSISTANT IN PHYSICAL EDUCATION**

Course #3283

Elective 12th grade / 1st or 2nd Semester / .5 credit

Pre-requisite: The student must have completed 1.5 credits, passed all PE classes with a 3.00 GPA or better,

This course is designed for students who are interested in assisting the instructor with a variety of tasks that are essential for student learning, but not limited to mentoring, teaching, demonstrating, officiating, promoting safety, and helping with equipment. The student will be held to different expectations and requirements than students enrolled in the class. This class is associated with PE9 with no more than two (2) assistants per class. The PE staff will make the final decision for admission.

## **SAFETY EDUCATION**

### **DRIVER EDUCATION**

Course #1068

Elective 10th grade / 1st Semester / .2 credit

Driver Education classroom is offered to all students born on or before October 1, 2002: 1) summer school is offered on a limited enrollment (24 oldest students) for those students in "good academic standing and 2) fall semester is the first 11 weeks of the upcoming school year. A minimum of 30 clock hours of classroom instruction and 60% or better grade allows student to try for learners permit and participate in behind-the-wheel instruction. Semester credit is earned. Behind-the-wheel instruction is offered during the school year. Students will be sent for permit/BTW instruction according to chronological age order.



# SCIENCE

(Graduation Requirement – 3 credits)

## **ADVANCED PLACEMENT (AP) BIOLOGY**

Course #1072/1272

Elective 11—12 / Year Course / .5 credit per semester

Pre-requisite: 3.00 GPA in Algebra I & Biology

AP Biology follows the College Board Standards for Advanced Placement and is intended to give students the opportunity to earn credits of college biology by passing the AP Biology Exam at the end of the course. This course will offer all twelve (12) AP Biology Labs, a rigorous and detailed coverage of general biology concepts, and will also allow for opportunities to expand on topics as time permits. This class is a high-speed course and is only intended for college-bound students. Students will be expected to complete statistical analyses as part of the course.

## **ADVANCED PLACEMENT (AP) CHEMISTRY**

Course #1268/1269

Elective 12 / Year Course / .5 credit per semester

Pre-requisite: 2.00 GPA in Chemistry

AP Chemistry is equivalent to a college level general chemistry course that provides rigorous study in four major areas: structure of matter, states of matter, reactions, and descriptive chemistry. This lab-rich course is designed to prepare students for the AP Chemistry exam and for their first year of college chemistry. AP Chemistry is open to all students who have completed a year of chemistry who wish to take part in a rigorous and academically challenging course. A special emphasis will be placed on the seven science practices, which capture important aspects of the work that scientists engage in, with learning objectives that combine content with inquiry and reasoning skills. The student will demonstrate a basic understanding of, and the ability to apply, mathematical solutions to problems involving atomic theory and structures, chemical bonding, nuclear chemistry, kinetic theory, solutions, reaction types, stoichiometry, equilibrium, kinetics, thermodynamics, and descriptive chemistry. Evaluation is based on homework, lab reports, and tests.

## **ADVANCED PLACEMENT (AP) PHYSICS COURSE I**

Course #1083/1225

Elective 11-12 / Year Course / .5 credit per semester

Pre-requisite: Algebra II or instructor permission (Introductory Physics is not a prerequisite)

AP Physics Course I is an algebra-based, conceptual physics course with a focus on: kinematics, Newton's laws of motion; torque; rotational motion and angular momentum; gravitational and circular motion; work, energy and power; linear momentum; oscillations, mechanical waves and sound; and introduction to electric circuits. Students will be preparing to take the AP Physics Course I exam in May with the potential to earn college credit.

## **ADVANCED PLACEMENT (AP) PHYSICS COURSE II**

Course #1270/1271

Elective 12 / Year Course / .5 credit per semester

Pre-requisite: AP Physics Course I

AP Physics Course II is an algebra-based, conceptual physics course with a focus on: fluid states and dynamics, thermodynamics with kinetic theory, PV diagrams and probability, electrostatics, electric circuits with capacitors, magnetic fields, electromagnetism, physical and geometric optics, and topics in modern physics. Students will be preparing to take the AP Physics Course II exam in May with potential to earn college credit.

## **ANATOMY & PHYSIOLOGY**

Course #1075

Elective 12 / 1st or 2nd Semester / .5 credit

Anatomy is the study of the locations and placements of the major organs and systems of the body. Physiology is the study of how the body works, including studies of cellular secretions, tissue functions, and energetic processes of the body. This college-prep course is an accelerated study of comparative anatomy and physiology, and students will learn about the major tissues, organs and systems of the human body, assisted by dissections. The course is recommended for students interested in careers in human health and veterinary science. Areas of study include cellular activities, tissue functions, organ systems and functions, and interactions between systems. Side studies include human health topics and the nature of disease.

### **BIOLOGY (GENERAL)**

Course #1070/1217

Required 9<sup>th</sup> grade/ Year Course / .5 credit per semester

Biology is the study of living organisms. This course includes the study of the scientific method and experimental design, an overview of ecosystems, biomes and conservation biology, classification of organisms, an overview of the kingdoms of living things, and other classical biology topics. The course also covers biological chemistry, the role of DNA in heredity and protein synthesis, an overview of genetics, and other topics of interest in biotechnology. A laboratory component of the course is required, and students are required to keep a Biology notebook. Some emphasis is placed on graphing, interpretation of graphs, data analysis and other practical interpretations and applications of science.

### **CHEMISTRY**

Course #1073/1218

Elective 11—12 / Year Course / .5 credit per semester

Pre-requisite: Physical Science

Matter and energy are involved in everything we use and do. Students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include characteristics of matter, use of the Periodic Table, development of atomic theory and chemical bonding, chemical stoichiometry, gas laws, solution chemistry, and thermochemistry. Students will investigate how chemistry is an integral part of our daily lives.

### **ECOLOGY**

Course #1071

Elective 11—12 / 1st Semester / .5 credit

Pre-requisite: 2.00 GPA in Algebra I & Biology

Ecology is the study of interactions between living things and the living and nonliving components of an environment. Of interest in ecology is the use of mathematics in population estimation, population modeling, and statistical analysis. This college-prep course is an introduction to field ecology and incorporates a five-week field study that includes a formal scientific report. Students will learn how scientists understand community associations and ecological interactions and will achieve mastery level learning of many ecological relationships. Students will learn to use rigorous mathematics in describing those relationships and will learn how to write technical, scientific reports. Students interested in taking this course should be highly motivated.

### **ENVIRONMENTAL SCIENCE**

Course #1276

Elective 11-12 / 1st or 2nd Semester / .5 credit

Environmental Science is the study of human impacts on the natural world. This course is a very basic introduction to the study of ecology and does not include mathematical models. This course explores how human interactions change the nature of ecosystems and how solutions to environmental problems are reached. Students will learn about theories associated with global climate change, impacts of daily living on the environment and how environmentally friendly solutions can be economically beneficial. Topics are based as much on current events as they are on basic environmental topics and may occupy a broad range from natural gas piping on public lands to moose declines in the Great Lakes states.

### **INTRODUCTORY PHYSICS**

Course #1077/1224

Elective 10—12 / Year Course / .5 credit per semester

Pre-requisite: Algebra I

A general, introductory course into conceptual physics. Topics covered will include: kinematics and Newton's laws of motion; work, energy, and power; and linear momentum.

### **PHYSICAL SCIENCE**

Course #3264/3265

Required 10th grade / Year Course / .5 credit per semester

Physical science is a combination of two branches of science – Chemistry and Physics. Chemistry is the study of the properties, composition, structure, and interactions of matter. Physics is the study of the relationship between matter and energy. Overall, this laboratory-based science class will allow students to explore the principals of chemistry and physics, such as matter, energy, structure of atoms, chemical reactions, forces and motion. The ultimate goal of the course is to produce scientifically literate citizens capable of using their knowledge of physical science to solve real-world problems and make personal, social, and ethical decisions that have consequences beyond the classroom walls.

**ZOOLOGY**

Course #1066

Elective 10—12 / 1<sup>ST</sup> or 2<sup>nd</sup> Semester / .5 credit

Zoology is the study of animals. This course will have a very large component of vertebrate zoology, the study of vertebrate (back-boned) animals including the study of the birds, mammals, reptiles, amphibians, and fish of Wisconsin. This zoology course will focus on animal adaptations, animal comparative anatomy, animal classification and identification, and will also have some components of animal behavior. This course offers a number of differentiated lessons that will appeal to science students of all abilities including some scientific illustration, some analysis of animal sounds, some compare-and-contrast analysis, and some emphasis on future conservation priorities for wild animals.

**(IS) SCIENCE PROJECT**

Course #1078

Elective 12 / 1st or 2nd Semester / .5 credit per semester

Pre-requisite: 3 credits in science and permission of instructor

Designed for students who wish to do independent work in an area of their choice. A project will be required. The course is set up as full year to give time for gathering information, supplies and conducting experiments.

# **SOCIAL STUDIES**

**(Graduation Requirement – 3.5 credits)**

## **ADVANCED PLACEMENT (AP) EUROPEAN HISTORY**

Course # 1035/1211

Elective 11-12 / Year Course / .5 credit per semester

Not offered for 2017-2018, next offered for 2018-2019

The content and procedures of this course are equivalent to a college-level introductory course. Students will acquire knowledge of the basic events and movements that occurred in Europe during the time period from approximately 1450 to the present. Events during this time period will be examined through three major historical themes: Intellectual and Cultural, Political and Diplomatic, and Social and Economic.

## **ADVANCED PLACEMENT (AP) GOVERNMENT & POLITICS**

Course #1207/1208

Elective 11-12 / Year Course / .5 credit per semester

Offered every other year

This course introduces students to fundamental concepts used by political scientists to study the processes and outcomes of politics in a variety of country settings. The course aims to illustrate the rich diversity of political life, to show available institutional alternatives, to explain differences in processes and policy outcomes, and to communicate to students the importance of global political and economic changes. Comparison assists both in identifying problems and in analyzing policymaking.

## **ECONOMICS & AMERICAN GOVERNMENT**

Course #1033/3213

Required 10th grade / Year Course / .5 credit per semester

This semester course will introduce the basic concepts of economic theory. Emphasis will be placed on economic fundamentals, Microeconomics, Macroeconomics and international economic concepts. The first half of the course is designed to focus in detail on the local, county and state levels of government in Wisconsin. The second half of the course focuses on the national level of government in the United States. The executive, legislative and judicial branches of government are analyzed with special emphasis on the President, Congress, and the Supreme Court.

## **GEOGRAPHY (PHYSICAL)**

Course #1036

Elective 9—12 / 1st or 2nd Semester / .5 credit

The objective for this course is for students to understand the connection between one's physical environment and the culture that resides in that environment. We will cover such topics as landforms, climate, vegetation, map skills, government, history, and way of life of different countries of the world. The studies will include North America, Latin America, Europe, Far East, Africa, and Oceania as time permits. The course is designed to give the student a working geographical background.

## **HISTORY THROUGH FILM**

Course #1213

Elective 9—12 / 1st or 2nd Semester / .5 credit

This class will explore and analyze history through film. Students will compare and contrast cinematographic portrayal of history with actual historical occurrences through class discussion, research, reading, and writing.

## **MODERN U.S. HISTORY**

Course #1782

Elective 10-12 / 1st or 2nd Semester / .5 credit

Modern U.S. History will provide an in-depth study of American history since World War II. Topics we will explore include the Korean War, Civil Rights, Assassination of JFK, Vietnam War, Nixon and Watergate, Oil Crisis, Iranian Hostage Crisis, Conservative Movement, Persian Gulf War, 9/11 attacks, and domestic and foreign issues confronting America today.

### **U.S. HISTORY**

Course #1209/1210

Required 11th grade / Year Course / .5 credit per semester

This course is to create student awareness in our country's past with an eye to the future. They cover the founding of America and our European influence, the birth of the United States and its rise of prominence in the world community. All the contributions, both internal and external, which have given the U.S. a position of world leadership, are included. The intent is to make the student more aware of his/her obligations, privileges and heritage as a citizen.

### **WESTERN CIVILIZATIONS**

Course #1781

Elective 10—12 / 1st or 2nd Semester / .5 credit

This course begins at pre-civilization and continues to the four river valley civilizations. The course begins with discussion of the progression of civilization and the key criteria of civilizations followed by tracing the developments of governments, religion, and economics. Themes that are highlighted are art & literature, conflict, diffusion, morality & character, technology, and environmental influences. Individual and group research projects will be encouraged to let students explore the world of the ancient.

### **WORLD HISTORY**

Course #1031/1215

Required 9th grade / Year Course / .5 credit per semester

This course will be a survey of world events that will draw upon the prior knowledge of the students to help them make connections with the modern era. Students will start with the Age of Imperialism to see how the modern world was shaped. We will study countries on each continent up to World War I, and then will study global events up through today. Particular focuses will be in Africa, India, China, The Middle East, Canada, and South America; all while looking at the European impact and American impact around the world.

### **WORLD WAR II**

Course #1212

Elective 9—12 / 1st or 2nd Semester / .5 credit

Students will delve deep into studying the causes, the course and the implications of World War II—the greatest of 20th century conflicts. The course will cover the geographic areas involved, the major diplomatic, political and military events, and some of the keys figures of the war. It covers the time period of 1918 to present, with an emphasis on the years 1939-1945.

### **(IS) SOCIAL STUDIES**

Course #1038

Elective 11—12 / 1st or 2nd Semester / .5 credit

Pre-requisite: Minimum of B average in all social studies courses

Intensive study and research on selected subfields of Social Studies. Submission of formal research papers on developments and execution of the project will be required. Instructor permission required.

\*See Northern Lights Network section for more opportunities!

# TECHNOLOGY EDUCATION

(Classes with an “\*” indicate advanced standing at WITC campuses)

## **BEGINNERS HOME AND AUTOMOTIVE MAINTENANCE**

Course #1175

Elective 9—12 / 1st or 2<sup>nd</sup> Semester / .5 credit

During this one-semester course students will learn how to perform basic maintenance on houses/apartments along with an understanding of basic automotive maintenance and repair. The skills learned in this class will help students diagnose and repair basic household and automotive problems that will occur in their lifetime. The home portion will cover basic framing and gypsum wallboard installation and mudding, basic plumbing, basic electrical, and steps to make your home more energy efficient. In the automotive portion, students will learn how to properly change a tire, how to add and change oil and coolant in a vehicle, along with other basic vehicle maintenance. During these lessons, students will learn the names and proper use of basic tools to do these common repairs and maintenance.

## **CAD-CAM\***

Course #1118

Elective 10—12 / 2nd Semester / .5 credit

One semester course covering introducing the aspects of designing with Solid Modeling and Parametric Modeling. We will begin constructing basic solid models and work towards building intelligent mechanical design, creating multi-view drawings and assembly models. This course takes a hand-on, exercise-intensive approach to all the important Parametric Modeling techniques and concepts.

## **CAD-CAM II**

Course #1114

Elective 10—12 / 2nd Semester / .5 credit

Pre-requisite: CAD-CAM

One semester class course building off the CAD-CAM course. Solidworks will again be used to introduce students to Basic Motion Studies and Design Analysis with SimulationXpress to prepare students for the Certified SolidWorks Associate Exam (CSWA). Solidworks will also be used to create parts with the 3D printer.

## **METALWORKING I\***

Course #1127

Elective 9—12 / 2nd Semester / .5 credit

The Metalworking I course introduces students to the qualities and applications of various metals and the tools used to manipulate and form metal into products. Through one or more projects involving metals, students develop planning, layout, and measurement skills; gain experience in cutting, bending, forging, casting, and/or welding metal; complete projects according to blueprints or other specifications; and may also learn to polish and finish metals. Correct use of metalworking tools and equipment is stressed.

## **METALWORKING II**

Course #1116

Elective 10—12 / 2nd Semester / .5 credit

The Metalworking II course enables students to create metal parts using various machine tools and equipment. Course content may include interpreting specifications for machines using blueprints, sketches, or descriptions of parts; preparing and using lathes, milling machines, shapers, and grinders with skill, safety, and precision; developing part specifications; and selecting appropriate materials.

## **RESIDENTIAL CONSTRUCTION**

Course #1176

Elective 9—12 / 1st or 2<sup>nd</sup> Semester / .5 credit

This course is designed to give students some insight and practical experiences in the residential construction field. The course will approach construction from several different viewpoints including: homeowner, carpenter, designer, architect, and others. The class will start learning about foundations and work their way up to roof systems. During the second half of the semester students will be tasked with a variety of projects ranging from structural framing to installation of windows and doors to installing variations of roofing and siding. Students will work cooperatively in small groups to build storage sheds and other structures.

### **SMALL ENGINES**

Course #1142

Elective 10—12 / 1st Semester / .5 credit

A one-semester course designed to introduce students to the operation, maintenance and repair of small gas engines. Students will gain practical experience in the repair of small gas engines by diagnosing problems, disassembling, repairing and reassembling shop engines. Upon completion of the shop engines students will have an opportunity to work on engines of their own with approval of the instructor.

### **SOARING EAGLE CUSTOM FABRICATION**

Course #1177/1178

Elective 11—12 / Year Course / .5 credit per semester

Pre-requisites: Woods I, Metalworking I, and Personal Finance

Students enrolled in the Soaring Eagle Custom Fabrication course will operate their own student-run business right out of the high school Tech Ed department. Students will use previously learned skills from Woods and Metalworking. Students will be responsible for quoting jobs, ordering materials, manufacturing parts, quality control, shipping, receiving, invoicing, customer service, accounting, payroll hours, and equipment maintenance. The class will also be generating funds to help further our Tech Ed program and pay a percentage of profits back to students for working hard and smart.

### **VIDEO GAME DEVELOPMENT I**

Course #1174

Elective 9—12 / 1st or 2<sup>nd</sup> Semester / .5 credit

Video Game Development provides students with a complete understanding of the process used to create, design, build and market a video game. The curriculum will give step-by-step instructions to help students through each step of the development process. Design teams will be used to help students learn team building, business ethics, and to help teach the technological components necessary to launch a new video game. This process will provide an invaluable lesson in team building that can be applied to any other aspect of the technology and engineering industries in real life future careers.

### **VIDEO GAME DEVELOPMENT II**

Course #1180

Elective 10—12 / 1st or 2<sup>nd</sup> Semester / .5 credit

Pre-requisite: Video Game Development

This course is designed to build on the concepts learned in Video Game Development I. During the semester, students will work in groups or “teams” to develop and produce video games of different styles and genres. Each student will be assigned jobs that will change periodically through the class so each student experiences all the areas of game development. Students will use the same software as Video Game Development I.

### **WOODS I**

Course #1129

Elective 9—12 / 1st Semester / .5 credit

The Woods I course includes studying the properties of woods and composites made from woods and using these materials to construct usable products. This course enables students to experience the process of translating an idea into a finished product, with instruction in planning, designing, selecting materials, and using tools and machines.

### **WOODS II**

Course #1117

Elective 10—12 / 1st Semester / .5 credit

The Woods II course enables students to experience the process of translating an idea into a finished product, with instruction in planning, designing, selecting materials, and using more advanced tools and machine techniques.

### **(IS) TECHNOLOGY & ENGINEERING**

Course #1132

Elective 12 / 1st or 2<sup>nd</sup> Semester / .5 credit

One semester course allowing students to pursue any area of Industrial Arts in depth. Students must present a detailed plan of their anticipated activities for this class to the instructor. ONLY SENIORS who have Instructor’s permission will be allowed to enroll in this class.

# **NORTHERN LIGHTS NETWORK**

**(FINAL ITV OFFERINGS ARE NOT CONFIRMED UNTIL THE SPRING)**

## **ADVANCED PLACEMENT (AP) STATISTICS**

Course #1240/1242

Elective 11—12 / Year Course / .5 credit per semester

Pre-requisite: Algebra II and consent of a math instructor

This course is an intensive study of probability and statistics. This course will be an asset to students entering business, marketing, mathematics and both the hard and soft science. Students will be exposed to the content needed for the College Board's AP exam in statistics given in the spring of the year. Successful completion of the exam (a score of three (3) or more) can qualify the student for college credits. The students are encouraged to review the College Board's website for more detailed information about the AP Exams and to carefully review the AP Exam policies of the colleges of interest. Topics covered will include all areas covered in the exam. This course will utilize a variety of group and individual application projects in addition to the more customary discussion/practice format. Quizzes will be given at the end of each week or at appropriate times as indicated on the syllabus. The primary mode of instruction will be a lecture/discussion format. Regular assignments will be recommended and occasionally required for credit. In order to be successful in this course, regular attendance and participation is very important.

## **ADVANCED PLACEMENT (AP) US HISTORY**

Course #1163/1263

Elective 11—12 / Year Course / .5 per semester

Prerequisite: 3.5 GPA in Social Studies or consent of instructor

This is a general survey course of American History from colonial times through the Vietnam War. The emphasis will be on historical concepts and what effect they had on the development of American History. Knowledge of concepts and the ability to reinforce them with factual material will be an essential element of this course. Independent reading of outside source material and the ability to write logically and precisely will be expected. This course will be presented and taught at the college level. Successful completion of this course will give the student the option for testing for possible university credit.

## **ADVANCED PLACEMENT (AP) WORLD HISTORY**

Course #1164/1264

Elective 11—12 / Year Course / .5 credit per semester

Prerequisite: 3.5 GPA in Social Studies or consent of instructor

This course is a rigorous yearlong course with an emphasis on thematic non-Western History, culminating with the College Board AP World History Exam in May. Students will explore world history from 8000 B.C. to the present to understand the evolution of global processes and contacts across a diverse array of human societies. Students will be required to participate in class discussions, and group/individual projects. A special emphasis will be given to historical writing through essays and document-based questions (DBQs) in addition to other assignments that will develop historical thinking, critical reading, analytical writing, the thoughtful evaluation of artifacts and art forms, the appropriate use of primary and secondary sources, and the discussion of similarities and differences across time and cultures. Proven performance in social studies courses and solid reading and writing skills are a necessity for AP World History. To be a part of this hybrid class, students need access to computers during class time, access to e-mail at school, and the ability to participate in the Moodle content management system. Home Internet access is strongly recommended.

## **AMERICAN SIGN LANGUAGE II**

Course #1184/1185

Elective 10—12 / Year Course / .5 credit per semester

Prerequisite: American Sign Language I

Students will improve their expressive and receptive signing skills and be able to communicate effectively in most social situations. The Deaf Culture will be stressed. Students will read a book about a deaf individual and research current deaf personalities. Student materials, resources and homework will require access to the CESA 11 Moodle server.

## **OJIBWEMOWIN I**

Course #1193

Elective 9—12 / 1<sup>st</sup> Semester / 1 credit

This course is an introduction to the Ojibwe language through listening, speaking, reading and writing. In this course, students will learn basic Ojibwe vocabulary and grammar including commands, negation and simple compound sentences. All four verb-types will be examined with an emphasis on VAI verbs. Traditional Ojibwe culture will be integrated throughout the course as a means of gaining greater comprehension of the language. The orthography used in this class is commonly known as double-vowel.



### **OJIBWEMOWIN II**

Course #1194

Elective 9—12 / 2<sup>nd</sup> Semester / 1 credit

Prerequisite: Ojibwemowin I

This course is the second part of the introduction to the Ojibwe language. In this course, students continue the exploration of Ojibwemowin through listening, speaking, reading and writing. Students will build on and expand the basic Ojibwe vocabulary and grammar learned from Ojibwemowin I. All four verb-types (VAI, VII, VTA, VTI) will be examined with a particular emphasis on VII and VAI verbs.

### **OJIBWEMOWIN III**

Course #1195

Elective 10—12 / 1<sup>st</sup> Semester / 1 credit

Prerequisite: Ojibwemowin II

This course is the third semester in the Ojibwe language sequence. In this course, students continue the exploration of Ojibwemowin through listening, speaking, reading and writing. Students will build on and expand the basic Ojibwe vocabulary and grammar learned in previous Ojibwemowin courses.. All four verb-types (VAI, VII, VTA, VTI) will be examined with a special emphasis on VTI verbs.

### **OJIBWEMOWIN IV**

Course #1196

Elective 10—12 / 2<sup>nd</sup> Semester / 1 credit

Prerequisite: Ojibwemowin III

This course is the fourth semester in the Ojibwe language sequence. In this course, students continue the exploration of Ojibwemowin through listening, speaking, reading and writing. Students will build on and expand the basic Ojibwe vocabulary and grammar learned in previous Ojibwemowin courses. All four verb-types (VAI, VII, VTA, VTI) will be examined with a special emphasis on VTA verbs.

### **PRE-ENGINEERING**

Course #1190

Elective 10—12 / 1<sup>st</sup> Semester / .5 credit

This course is great for students who are interested in careers related to engineering, design, manufacturing, or computer-aided-machining. Students will explore science, technology, engineering and math (STEM) while using computer software called SolidWorks. Students will be introduced to solid part modeling to create and modify fully parametric 3D models. Students will learn computer-aided-drafting skills, create sketches, apply various features, place dimensions, add relationships to define sketches, and modify completed models. Students will also create assemblies and animations using parts they have created and much more. This course is articulated so students can earn dual credit through WITC's Mechanical Design Technology or take it a step further and become a CSWA – Certified SolidWorks Associate – by taking the exam.

### **PSYCHOLOGY**

Course #1191

Elective 10—12 / 1<sup>st</sup> Semester / .5 credit

Psychology is the study of human behavior and the workings of the mind. It attempts to answer the question, "Why do we do what we do?" The course covers such topics as motivation and emotion, intellectual personality development, abnormal behavior, and the variety of therapeutic techniques.

# VIRTUAL COURSE LIST

Students in grades 9-12 with a cumulative GPA of at least 3.25 also have the option to enroll in virtual courses at Unity High School. Priority is given to parents and students who request a virtual class in writing prior to March 1<sup>st</sup>. Students must not have previous discipline that limits their access to a school issued iPad, offerings available are limited to the Wisconsin Virtual School options, and the principal may deny the request to enroll in an online, virtual course. A failing grade in an online, virtual course may exclude the student from any future online, virtual courses. Below is the current list of courses offered in this program:

## Semester-Length Courses

- AP Macroeconomics
- AP Microeconomics
- AP US Government & Politics
- Art Appreciation
- Business Communications
- Career Planning
- Civics
- Criminology
- Digital Arts
- Digital Citizenship
- Early Childhood Education
- Family & Consumer Science
- Fashion & Interior Design
- Fundamentals of Web Design
- Gothic Literature
- Health I: Life Management Skills
- Health Careers I
- Health & Personal Wellness
- Health Science I
- Health Science II
- History of the Holocaust
- Hospitality & Tourism
- Introduction to Culinary Arts
- International Business
- Life Skills
- Media & Communications
- Medical Terminology
- Music Appreciation: The Enjoyment of Listening
- Mythology & Folklore: Legendary Tales
- Real-World Parenting
- Sports and Entertainment Marketing
- Veterinary Science
- World Language Survey

## Yearlong Courses

- Advanced Web Design
- AP Art History
- AP Calculus AB
- AP Calculus BC
- AP Computer Science A
- AP English Language
- AP Environmental Science
- AP French Language
- AP Human Geography
- AP Psychology
- AP Spanish Language
- Beginning Programming
- Chinese (Mandarin) I
- Chinese (Mandarin) II
- Computer Fundamentals
- Earth Space Science
- Food & Nutrition through the Lifespan
- Forensic Science
- French I Competency
- French II Competency
- French II Fluency (comparable to French III)
- French III Competency (comparable to French IV)
- German I
- German II
- German III
- German IV
- Intermediate Programming
- Japanese I
- Japanese II
- Latin I
- Latin II
- Marine Science
- Social Problems I and II
- Spanish II Fluency (comparable to Spanish III)
- Spanish III Competency (comparable to Spanish IV)

# SPECIAL EDUCATION

Pre-arranged 9—12 / 1st & 2nd Semester / .5 credit

These classes are designed to supplement, or take the place of, the regular curricular classes by offering tutoring help and/or academic programming for Special Education students. The classes must be arranged by the Special Education Instructor(s), School Counselor and/or Principal.

The following represent areas of current academic course instruction:

1151/2151—Alt. Ed. English  
1153/2153—Alt. Ed. Math  
1152/2152—Guided Study  
1155—Adaptive PhyEd  
1700/2700—Transition Skills  
4151/4152—Social Interactions  
1150/2150—Social Skills  
1500—Alt. Ed. Independent Living Skills  
1165/2165—Work Transition