

# Crestwood High School Curriculum Guide



2018 – 2019

# Forward

*This guide has been set up to ensure that all students attending the secondary school acquire proper pre-requisition and required courses for graduation. This booklet will explain the required courses, elective and pre-requisites needed.*

*Please note that all requirements must be met by all students, and the pre-requisites must be completed by all students. All electives are open to all students who have met grade level and pre-requisite requirements.*

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**The Howard-Winneshiek Community School District provides equal opportunity to adults and students regardless of age, color, creed, national origin, race, religion, marital status, gender, sexual orientation, gender identity, physical attributes, physical or mental ability, ancestry, political party preference, political belief, socioeconomic status, or familial status in its educational programs, employment, activities, or disciplinary procedures.**

## Graduation Requirements

4 years of Physical Education_____	4.0 Credits
4 years of English_____	8.0 Credits
3 years of Science_____	6.0 Credits
3 years of Social Studies_____	6.0 Credits
3 years of Math_____	6.0 Credits
1 Semester of Strategies for Academic Success_____	1.0 Credit
Electives_____	17.0 Credits
Total Credits Required_____	48.0 Credits

**English – 8 semesters.** A student will need 8 English credits for graduation. English 9 will fulfill two credits, English 10 will fulfill 2 credits, and Speech will fulfill one credit. Of the remaining three credits, one must be a literature-based course and one must be a writing-based course.

**Physical Education – 8 semesters.** Required by the State of Iowa.

**Science – 6 semesters.** General Science is required in grade 9, Biology in grade 10, and elective in grade 11 or 12.

**Social Studies – 6 semesters.** 20<sup>th</sup> Century/American History is required in grade 9. World History is required in grade 10. American Government in grade 11 and Consumer Economics in grade 12.

**Mathematics – 6 semesters.** It is suggested that four of these semesters be in grades 9 and 10.

**Strategies for Academic Success – 1 semester.** Freshman online course required for graduation.

### Schedule Changes

Freshman, sophomores, juniors, and seniors may drop courses during the first five days of a new semester. After the midterm, a student dropping a course will result in an “F” for that course.

A yearlong course may not be dropped at the end of the first semester unless the student has the approval of the teacher, principal and the guidance counselor. Students dropping a course must replace it with another, if necessary, to maintain the six and a half course minimum.

### Student Led Conferences

Students are required to complete a Student Led Conference (SLC) twice a year. The SLC will be held during Parent/Teacher Conferences. Early graduates will only complete the Fall SLC.

## **AG EDUCATION DEPARTMENT**

**NOTE: CONCURRENT AGRICULTURE CLASSES HOWARD-WINNESHIEK COMMUNITY SCHOOLS AND NORTHEAST IOWA COMMUNITY COLLEGE FOR COMPETENCIES AND COURSES IN AGRISCIENCE DEPARTMENT.** This is an opportunity for high school students to earn college credit at NICC by enrolling in the classes offered in the Agri-science department at Crestwood High School. The Agriculture classes offered are concurrent classes, which allows them to be the exact class that is offered at NICC. Therefore, the classes also transfer to colleges such as Iowa State University. The concurrent classes offered are: Farm Business Management, Survey of Animal Industry, Working with Animals, Intro to Marketing, and Principles of Agronomy.

### **FUNDAMENTALS OF AGRISCIENCE**

Prerequisite: None

Length of Course: Year

Grades: 9-10

2 Credits (Could count as science credits with teacher permission)

Fundamentals of Agri-science integrates basic biological and technological concepts with principles of production agriculture. You will be taken on a journey through agricultural areas including plant sciences and animal sciences. Topic areas include: Digestive Systems, Reproductive Systems, Meats, Breeding Systems, Biotechnology, Plant Growth, Nutrients, Weed and Insect Identification, and explore a variety of career options. Students will also be introduced to FFA and record keeping. This class is strongly recommended for the NICC class Survey of the Animal Industry and Working with Animals.

### **AGRICULTURAL PRODUCTION**

Prerequisite: None

Length of Course: Semester

Grades: 10-11-12

1 Credit

This course is designed for students who want to further their learning in animal and plant production management skills. It will cover areas of livestock management and plant management ensuring optimum success. This course will also cover agricultural carpentry. Students will be expected to construct a wooden project. This class is also a recommended for the NICC class principles of Animal Productions.

### **PLANT SCIENCE I**

Prerequisite: Recommended to take Plant Science I and Plant Science II during the same year

Length of Course: Semester

Grades: 10-11-12

1 Credit (Could count as science credit)

The Principles of Agricultural Science – Plant I (ASP) course will include landscaping and poinsettia production. This course will expose students to the world of agriculture, plant science, and career options. Students will have experiences in various plant science concepts through exciting “hands-on” activities, projects, and problems. Student experiences will include the study of plant anatomy and physiology, classification, and the fundamentals of production and harvesting. Students will learn how to apply scientific knowledge and skills to use plants effectively for agricultural and horticultural production. Students will discover the value of plant production and its impact on the individual, the local, and the global economy. Lessons throughout the course will provide an overview of the field of agricultural science with a foundation in plant science. These lessons include working in teams and exploring hands-on projects. Students will work on major projects and problems similar to those that plant science specialists, such as horticulturalists, agronomists, greenhouse and nursery managers, and plant research specialists, face in their respective careers.

### **PLANT SCIENCE II**

Prerequisite: Plant Science I is highly recommended to be taken in Semester 1 before taking Plant Science II  
Length of Course: Semester  
Grades: 10-11-12  
1 Credit (Could count as science credit)

The Principles of Agricultural Science – Plant II (ASP) course will include greenhouse flower and vegetable production to expose students to the world of agriculture, plant science, and career options. Students will have experiences in various plant science concepts through exciting “hands-on” activities, projects, and problems. Student experiences will include the study of plant anatomy and physiology, classification, and the fundamentals of production and harvesting. Students will learn how to apply scientific knowledge and skills to use plants effectively for agricultural and horticultural production. Students will discover the value of plant production and its impact on the individual, the local, and the global economy. Lessons throughout the course will provide an overview of the field of agricultural science with a foundation in plant science. These lessons include working in teams and exploring hands-on projects. Students will work on major projects and problems similar to those that plant science specialists, such as horticulturalists, agronomists, greenhouse and nursery managers, and plant research specialists, face in their respective careers.

### **ADVANCED HORTICULTURE**

Prerequisite: Plant Science II & Teacher approval  
Length of Course: Semester  
Grades: 10-11-12  
1 Credit

Students will assume the role of a greenhouse manager. Students will plant vegetable seeds, transplant plugs and plants, complete techniques to encourage plant growth and determine water needs. Students will also learn marketing techniques and help with plant sales.

### **AGRICULTURE RELATED SUBJECTS**

Prerequisite: None  
Length of Course: Semester  
Grades: 10-11-12  
1 Credit

The course will cover topics that are important both in agricultural jobs as well as every day fix-up or improvement projects. This will give students hands-on learning experiences in the following areas: Construction, Plumbing, Welding, Electricity, Small Engines Repair, and Agriculture Marketing.

### **LEADERSHIP DEVELOPMENT**

Prerequisite: Fundamentals of Ag Science and/or instructor approval  
Length of course: Semester  
Grades: 9-10-11-12  
1 Credit

This course is geared towards students wanting to take on leadership roles. Topics covered would include: Leading teams and groups, improving leadership in the school, Communication Skills, Group Dynamics, Team Building, Conducting Successful Meetings, Public Relations, Problem Solving and Decision Making, Goal Setting, Job Getting and Job Keeping Skills. It is a requirement for holding a major FFA officer position.

### **ADVANCED LEADERSHIP DEVELOPMENT**

Prerequisite: Instructor approval  
Length of Course: Year  
(Opposite of PE or Study Hall)  
Grades: 11-12  
1 Credit

This course will expand on topics covered on Leadership Development to further advance the students' leadership ability.

### **AGRICULTURAL MANAGEMENT**

*This course is offered as a prerequisite for Farm Business Management-AGB330. Therefore, the course will only be offered when the NICC course of Farm Business Management is offered.*

Prerequisite: None  
Length of Course: Semester  
Grade: 11-12  
1 Credit

Students will learn how to manage a farm or business. Topics covered will be Decision-Making, Depreciation, Managing Risks, Investment Analysis, Use of Credit, Land Use, and Humane Resource Management. This course must be taken the semester prior to taking the NICC Farm Management.

### **INTRODUCTION TO AGRICULTURE, FOOD AND NATURAL RESOURCES**

Prerequisite: None  
Length of Course: Year  
Grades: 9-10  
2 Credits

Introduction to Agriculture, Food and Natural Resources (AFNR) is the introductory course in the CASE sequence of courses. It is designed to introduce students to the four pathways that will be offered through CASE. In addition to a brief overview of animal science, plant science, natural resources, and agricultural technology and systems, students will explore FFA, leadership and science in agriculture.

## **ART DEPARTMENT**

**GUIDELINE FOR ART CLASSES: SIGN UP FOR NO MORE THAN TWO ART CLASSES PER SEMESTER UNLESS INSTRUCTOR APPROVED.**

### **DRAWING & DESIGN**

Prerequisite: None  
Length of Course: Semester  
Grades: 9-10-11-12  
1 Credit

This course serves as an effective introduction to the advanced courses offered at Crestwood. The elements and principles of design are introduced and/or reviewed through class projects. In class assignments are reinforced and explored more fully through outside sketchbook assignments. This class explores the PROCESSES of art while creating quality PRODUCTS. A variety of materials and techniques are utilized in an exploration of traditional and contemporary subject matter. A daily sketchbook is required and will be utilized for class notes and outside assignments.

### **DRAWING I**

Prerequisite: Drawing & Design  
Length of Course: Semester  
Grades: 9-10-11-12  
1 Credit

Media and techniques are explored through drawing a wide variety of subject matter. Personal styles will tend to emerge regardless of media or subject pursued. The elements of design and the principles of design will be taught through individual and group discussions of drawings. Sketchbook assignments will be assigned to practice using materials and techniques used.

### **DRAWING II**

Prerequisite: Grade of B or above in Drawing I

Length of Course Semester  
Grades; 10-11-12  
1 Credit

Drawing II class students complete the projects along with the beginning students. The familiar processes encourage advanced subjects as the students go beyond the assignments.

### **PAINTING I**

Prerequisite: Drawing & Design  
Length of Course: Semester  
Grades: 9-10-11-12  
1 Credit

Students will become familiar with the exploration of various styles and techniques of painting. Color will be studied and numerous color relationships will be examined and used throughout the course. Preparing a surface to paint on and presentation of finished paintings will be discussed. A sketchbook will be used on a daily basis for class notes, preparatory sketches and artist studies.

### **PHOTOSHOP I**

Prerequisite: Drawing and Design  
Length of Course: Semester  
Grades: 9-10-11-12  
1 Credit

This course will explore the Photoshop program. The first part of the class will be used to learn how to use the program and explore its possibilities. The second half will explore the Photoshop artistically. We will learn many techniques in turning ordinary photos into pieces of original artwork.

### **PHOTOSHOP II**

Prerequisite: A in Photoshop I & Instructor Approval  
Length of Course: Semester  
Grades: 10-11-12  
1 Credit

For those students who excelled in Photoshop I and want to continue learning and improving their Photoshop skills. This class will be independently taken during Photoshop I and focus on the skills you as a student want to enhance and learn. You will go above and beyond the basics learned in Photoshop I.

### **CLAY I**

Prerequisite: Drawing & Design with a B or higher grade  
Length of Course: Semester  
Grades: 9-10-11-12  
1 Credit

Each student pieces will be graded before firing. Each student will be allowed to fire and take home four (4) pieces free of charge, all other pieces will be recycled. If a student wishes to have more work fired, they will be charged \$0.15 per pound of clay used to create the piece. Students will become familiar with the necessary terminology involved in a clay workshop situation. Hand building methods will be demonstrated and practiced. Assignments are given in terms of number of pots due and the method of building to be employed. Students are encouraged to explore a personal approach to problem solving. Glazing and other surface treatments are demonstrated and discussed. Additive sculpture, subtractive sculpture, clay construction, combining hand-building methods, mask making and figure sculpture will be done. A critique after each assignment is used to teach students to evaluate pots and clay objects in terms of quality design and execution.

### **CLAY II**

Prerequisite: A grade of B or above in Clay I

Length of course: Semester  
Grades: 10 -11-12  
1 Credit

Each student pieces will be graded before firing. Each student will be allowed to fire and take home four (4) pieces free of charge, all other pieces will be recycled. If a student wishes to have more work fired, they will be charged \$0.15 per pound of clay to create the piece. Students will use their clay experience gained in Clay I to become skilled in using the potter's wheel. The cylinder must be mastered before moving on to bowls, platters, bottles, pitchers, teapots, mugs and then to combination pots. Each assignment begins with demonstrations and is structured with specific deadlines. Students will practice various decoration techniques that relate to wheel-thrown pottery. Glazing and glaze formulation will be practiced. Students will learn to evaluate wheel thrown pottery. Mastering the wheel takes time, effort and energy.

### **ADVANCED CLAY**

Prerequisite: A grade of "A" or "B" in Clay II and Teacher Approval  
Length of Course: Semester  
Grades: 11-12  
1 Credit

Students will practice and advance their skills in wheel throwing and hand building with clay in a semi-independent situation. Advanced Clay students will explore glaze mixing and will load and fire much of the clay work done in the class. Stress will be put on a systematic, personal, clay exploration by means of sketchbooks and making series of related projects.

### **PRINTMAKING I**

Prerequisite: Drawing & Design  
Length of Course: Semester  
Grades: 9-10-11-12  
1 Credit

The traditional and modern methods used by these artists are examined and discussed. Students work in a wide range of printing processes: rubbings, stencils, mono-prints, linoleum cuts, wood cuts, dry point etchings, silk screens, textile silk screens, collagraphs and lithographs. Editions of prints are made in most printing projects. The presentation of prints through quality matting is stressed upon concluding each process. Drawing is essential to the planning of good prints. A sketchbook is necessary in designing the finished prints through preliminary drawings.

### **PRINTMAKING II**

Prerequisite: Grade of B or above in Printmaking  
Length of Course Semester  
Grades; 10-11-12  
1 Credit

Printmaking class, Advanced Printmaking students complete the projects along with the beginning students. The familiar processes encourage advanced subjects as the students go beyond the assignments.

### **PAINTING II**

Prerequisite: A grade of B or above in Painting  
Length of Course: Semester  
Grades: 11-12  
1 Credit

Students will continue with the progress attained in Painting class in the areas of paint application, brushwork, color mixing, preparatory drawing, and work towards the development of personal style. Advanced Painting students will pursue their development semi-independently within the regular Painting class. Painting II students will be encouraged to paint on a variety of surfaces. Each student will prepare a body of work for presentation.

### **DIGITAL CAMERA I**

Prerequisite: Drawing and Design



Length of Course: Semester  
Grades: 9-10-11-12  
1 Credit

This course will explore digital photography. The class will use your digital camera to take a variety of pictures using the different settings & functions that your camera has to offer. The class will focus on composition in both color and black and white photography. Photoshop will be used as an aid to enhancing and altering photos.

### **DIGITAL CAMERA II**

Prerequisite: A grade in Digital Camera I of B & Instructor Approval  
Length of Course: Semester  
Grades: 10-11-12  
1 Credit

For those students who excelled in Digital Camera I and want to continue learning and improving their photography skills. This class will be independently taken during Digital Camera I and focus on the skills you as a student want to enhance and learn. A photo per day will be taken and handed in weekly – as well as a blog/website developed to showcase your photography.

### **SENIOR ADVANCE ART**

Prerequisite: Have taken at least one Advanced Art course (either Painting II, Drawing II, Printmaking II, Clay II, Digital Camera II) AND Instructor Approval (an application)  
Length of Course: Semester  
Grades: 12  
1 Credit

This course is designed for students who need/want to take another art class, but cannot take another course because they have taken the advanced class for the area of interest. Students will take control of their own learning by helping design a course that will be in the area of their interest. For example, a student who has advanced skills in drawing can continue to develop and advance their individual skills. Each student will develop their own goals and outcomes for the class.

### **SENIOR ADVANCE ART II**

Prerequisite: Senior Advanced Art I  
Length of Course: Semester  
Grades: 12  
1 Credit

This course is designed for students who need/want to take another art class, but cannot take another course because they have taken the advanced class for the area of interest or the advanced class cannot fit into his/her schedule. This is a continuation of Senior Advanced Art II.

## **BUSINESS EDUCATION DEPARTMENT**

**NOTE: ARTICULATION AGREEMENT BETWEEN HOWARD-WINNESHEIK SCHOOLS AND NORTHEAST IOWA COMMUNITY COLLEGE FOR HIGH SCHOOL ACCOUNTING.** This is an opportunity for high school students to earn college credit. Accounting class will transfer as Accounting Fundamentals or Office Accounting. To receive articulated credit, one must enroll in a community college within one year of graduation. A minimum grade of a C is required with no pass-fail option. **See instructor for competencies and courses that can be articulated.**

### **GENERAL BUSINESS**

Prerequisite: None  
Length of Course: Semester  
Grades: 9-10-11-12  
1 Credit

General Business is important to all students in that it provides an introduction to business. The course content includes information on types and structures of business, management, production, marketing, entrepreneurship, investment and the stock market. Each unit utilizes many projects to enhance learning. It serves as an introductory course for students planning to take other business courses. This course is offered in an on-line format with an instructor from New Hampton.

### **ACCOUNTING**

Prerequisite: None  
Length of Course: Year  
Grades: 11-12  
2 Credits

Accounting is the language of business. Studying accounting will prepare students for a variety of office and business occupations. This course is an introduction to basic financial accounting concepts and procedures for a sole proprietorship service business and a merchandising retail business. It will give students a basic understanding of the process of collecting, analyzing and using financial information in a business. Topics included are the accounting cycle, accounts receivables and payables, journalizing in a general journal and special journals, financial statements, payroll accounting, inventories and plant assets.

### **CONSUMER ECONOMICS**

Prerequisite: None  
Length of Course: Semester  
Grades: 12  
1 Credit

This is a one-semester course that is taken during the senior year to help students understand their rights and responsibilities as consumers. The most important thing for a consumer to know is how to make rational buying decisions. The world and global economy hold endless possibilities for financial success and financial pitfalls. Good financial decisions now, such as staying out of credit card debt or investing, can give a good start into adult life. Bad financial decisions made when young, such as credit card debt and no retirement savings can take time and money to straighten out. Some of the information will be helpful immediately while some will be more beneficial in the future. All of it will introduce the student to the impact that being a consumer will have on your life, and what an impact being a consumer can have in your local, state, and national economy.

## **FAMILY AND CONSUMER SCIENCE DEPARTMENT**

## **FOODS I**

Prerequisite: None  
Length of Course: Semester  
Grades: 9-10-11-12  
1 Credit

This course is an introduction to the basic principles of nutrition, wellness, and food preparation. The focus of instruction is centered on healthy food and lifestyle choices. The general goal is to enhance student awareness in regards to personal food choices and physical activity. The overall goal is for students to gain a variety of food preparation techniques for proteins, grains, dairy products, vegetables, and fruits. Students will be expected to plan and prepare healthy meals. Grocery shopping with a budget will also be discussed. The most important goal is to have fun in the kitchen!

## **FOODS II**

Prerequisite: Foods 1  
Length of Course: Semester  
Grades: 9-10-11-12  
1 Credit

This is an extension of the basic cooking skills learned in Foods 1. Students will prepare a wide variety of foods. Other topics to be discussed include cooking for a crowd and party planning. International foods will also be discussed. Food presentation and etiquette will be a part of the class. We will use various small kitchen appliances as a part of our lessons.

## **ENGLISH DEPARTMENT**

### **ENGLISH 9**

Prerequisite: None  
Length of Course: Year  
Grade: 9  
2 Credits

Reading and writing are the foundations for most of the classes you will take while in high school. English 9 will provide you with many opportunities to improve your skills in both areas. We'll be reading and writing about young adult novels, and heading back to Shakespeare's era while we read "Romeo and Juliet", along with many other reading and writing experience.

### **ENGLISH 10**

Prerequisite: English 9  
Length of Course: Year  
Grade: 10  
2 Credits

English 10 builds on many of the skills used in English 9. You will have many opportunities to read a variety of fiction and nonfiction, as well as several plays. We will also work with vocabulary and do various activities that will help improve your communication skills.

### **WORKPLACE COMMUNICATION**

Prerequisite: None

Length of Course: Semester  
Grades: 11-12  
1 Credit

Through instruction in this course the student will:

1) realize the importance of developing effective workplace communication skills, 2) develop individual communication skills applicable to the workplace, 3) identify and implement effective use of the basic modes of communication (listening, speaking, writing, reading) applicable to society and the world of work, 4) identify sources of information within the workplace and practice the skills in acquiring that information, 5) explore and implement effective methods of self-management, 6) identify and practice methods of negotiation and problem-solving, 7) identify and practice methods of communicating with co-workers, customers, and teams. Students will be expected to demonstrate what they have learned through a variety of interactive experiences and assessments. Each lesson will involve group work as well as individual written analysis.

### **CREATIVE WRITING I**

Length of Course: Semester  
Grades: 11-12  
1 Credit

Always jotting down bits of poetry? Do you have an idea for a short story or the Great American Novel? Maybe you just want to keep your writing skills fresh before heading off to college? Whatever the reason, try Creative Writing. In class, we will experiment with different types of original pieces in the daily writing that is done. Eight original pieces in a variety of genres will be written throughout the semester.

### **INDIVIDUALIZED READING**

Length of Course: Semester  
Grades: 11-12  
1 Credit

Do you wish you were a better reader? Do you ever wish you had the time to read the books you want to read? If so, Individualized Reading is the course for you. This one semester elective course allows you to select your own novels to read and gives you the chance to share what you've gained with others. Each week, we will also read short selections to improve reading comprehension and gain more confidence as readers.

### **MODERN LITERATURE**

Prerequisite: None  
Length of Course: Semester  
Grades: 11-12  
1 Credit

Though course content varies slightly from semester to semester, the course always attempts to present the growth of modern literature from about 1900 to the present. The course includes the reading of short stories, novels, plays, and poems. Main subjects covered in the course are the modern man's struggle with faith and purpose, the ways in which modern values change as society changes, the way emotions influence behavior, and the growth and promise of experiments in literary art.

### **AMERICAN LITERATURE**

Prerequisite: C or higher in English 10  
Length of Course: Semester

Grades: 11-12  
1 Credit

This course covers three centuries of American literature (1607-1900). The course interprets how events of American history influences American Literature and how American Literature impacted American history. Types of selections include tales, short stories, biography, articles, essays, and one novel, in depth.

### **BRITISH LITERATURE**

Prerequisite: C or higher in English 10  
Length of Course: Semester  
Grades: 11-12  
1 Credit

British Literature is designed to equip students with the knowledge and skills to read and comprehend complex texts. The course will focus on the history and genres of literature written by British authors. Students will be expected to engage with the texts through discussion, writing, and projects.

### **MULTICULTURAL LITERATURE**

Length of Course: Semester  
Grades: 11-12  
1 Credit

Multicultural Literature is designed to equip students with the knowledge and skills to read and comprehend complex texts. The course will focus on the literature written by international authors and diverse authors. Students will be expected to engage with the texts through discussion, writing, and projects.

### **YOUNG ADULT LITERATURE**

Length of Course: Semester  
Grades: 11-12  
1 Credit

Young Adult Literature will read and familiarize themselves with the growing body of books written for adolescents. We will read and discuss books related to gender, differences, sexual and cultural identity, cultural diversity, race and class, friendship, and coming of age.

### **SPEECH**

Prerequisite: None  
Length of Course: Semester  
Grades: 9-10-11-12  
1 Credit

Do you get sick to your stomach at the thought of speaking to a group of people? Presentations in class have you running to the nurse's office? Speech is a one-semester class designed to help you be more prepared for informal and formal speaking situations. You will be actively involved in lots of common public speaking situations as you learn the basics of giving a speech.

### **WRITING FOR LIFE**

Length of Course: Semester  
Grades: 11-12

1 Credit

Writing for Life will prepare students for the practical writing situations and styles that occur in everyday life. Students will respond in writing to the world around them in a variety of formats.

### **FOUNDATIONS OF WRITING**

Prerequisite: Must have earned a 4 or 5 on the Writeplacer exam. This course is the prerequisite for College Comp I.

Length of Course: Semester

Grades: 11-12

1 Credit

A writing course that develops students' fluency and confidence, it asks for clarity in thinking through writer's notebooks, expository writing, analytical reading, and listening. Students use structured assignments to explore the writing process, exercising higher order thinking skills needed to develop advanced critical thinking, reading and writing across the curriculum.

### **COLLEGE PREP WRITING**

Prerequisite: Must have received a "C" or higher in Foundations of Writing.

Length of Course: Semester

Grades: 11-12

1 Credit

Have you heard horror stories about the papers you will write in college? Does the idea of writing a paper that is more than 2 or 3 pages stress you out? Take College Prep Writing to prepare yourself for the challenging writing tasks you will encounter in college. CPW will be directed at students intending to go to a college, focusing on some of the styles of writing you will likely experience at that level. Students who take this class must be dedicated, highly motivated and committed to improving their own skills. High standards will be in place.

### **SCHOOL MAGAZINE**

Prerequisite: Prior approval by the instructor to be enrolled

Length of course: Year

Grades: 10-11-12

2 credits

The magazine course is designed to give students a basic understanding of journalism and magazine writing techniques. Students will write, edit, and layout monthly issues of the schools' digital magazine. Students in this course do all the work for publication of each issue of the magazine. Students will develop their writing abilities and editing skills by creating several articles for the school magazine. Students will also develop skills in photography. The course will also require some after school deadlines as well as some out-of-school time for news coverage.

### **READING**

Prerequisite: Teacher/team recommendation

Length of Course: Year

Grades: 9-10-11-12

2 Credits

This course focuses on reading fluency, comprehension skills and vocabulary development. Students read independently in self-selected books and read/listen to fiction and nonfiction texts including high-interest novels. Students will use discussion, writing and other strategies to improve reading ability. Teacher/team recommendation is required for placement in the course. Students who do not meet 41\* percentile proficiency on the Iowa Assessment reading comprehension may be required to take this course. This course could fulfill one semester of English credit. This course may be dropped at semester time if the student obtains a B- or above in this course and has tested proficient on the MAPS test (34%).

### **YEARBOOK**

Prerequisite: Prior approval by the instructor to be enrolled

Length of course: Year plus (2) days at the end of the school year

Grades: 10-11-12  
2 credits

Students will gain skills in page design, advanced publishing techniques, copy writing, editing, and photography while producing a creative, innovative yearbook which records school memories and events. Participants gain useful, real world skills in time management, advertising skills, marketing, teamwork, and design principles.

## **FOREIGN LANGUAGE DEPARTMENT**

### **SPANISH I**

Prerequisite: Strong foundation in English  
Length of Course: Year  
Grades: 9-10-11-12  
2 credits

Spanish I is an introductory course designed to help each student attain a general knowledge of the four basic skills of reading, writing, listening, and speaking while learning basic vocabulary and grammatical concepts. Additionally, students receive an introduction to the various cultures of the Spanish-speaking world.

### **SPANISH II**

Prerequisite: C- or better in Spanish I  
Length of Course: Year  
Grades: 10-11-12  
2 credits

Spanish II continues to develop practical vocabulary such as food, clothing, body parts, animals, and daily routines. New concepts in grammar include irregular present-tense verbs, reflexive verbs, and regular past tense verbs. Students continue developing their speaking, listening, writing, and reading skills.

### **SPANISH III**

Prerequisite: Have earned a C- or better in both semesters in Spanish II  
Length of Course: Year  
Grades: 11-12  
2 credits

Spanish III continues to develop vocabulary and grammatical concepts at an intermediate level. Speaking in Spanish is integrated within the course. Students continue to study the cultures of Spanish-speaking countries by examining specific cultural traditions. The impact of Spanish within the community and globally is also studied. Abstract grammar concepts without English equivalents are introduced.

### **SPANISH IV**

Prerequisite: Have earned a C- or better in both semesters of Spanish III  
Length of course: Year  
Grades: 12  
2 credits

Spanish IV continues to develop vocabulary and grammatical concepts at an intermediate to advanced level. Speaking in Spanish is integrated within the course. Students continue to study the cultures of Spanish-speaking countries by examining specific cultural traditions. The impact of Spanish within the community and globally is also studied.

## **GIFTED AND TALENTED DEPARTMENT**

### **GIFTED AND TALENTED PROGRAM (GAT)**

Prerequisite: See Guidance Office for qualifications

Length of course: Semester

Grades: 9-10-11-12

½ Credit

Students who meet the qualifications have the opportunity to work on projects of personal interest that often are not possible in the regular classroom, with the instructor as a mentor. The projects may be individual or small group in nature.

### **ADVANCED PLACEMENT ONLINE COURSES**

Prerequisite: Gifted and Talented Program, students must be highly motivated and possess the capability to work independently.

Department approval needed.

Length of Course: Year

Grades: 11-12

2 Credits

Interested students have online access to AP Chemistry, AP Physics B, AP Statistics, AP US History, AP Biology, AP Spanish, AP Computer Science A, AP Macroeconomics and AP Microeconomics. In May students can choose to take the related AP final exam. Scores on the exam, if high enough, may result in receiving college credit for the course in addition to the high school credit. APEX learning provides the online teachers who assign and grade the course work. Final course grades are given by the APEX instructor and will be placed on the student's transcript. AP grades will not be added to the student GPA. Tuition is paid for by IOAPA (Iowa Online Advanced Placement Academy) if grant money is available.

## **TECHNOLOGY DEPARTMENT**

### **GAME:IT**

Prerequisite: None

Length of course: Semester

Grades: 9-10-11-12

1 Credit

The computer gaming course is set into four major parts – Part 1: Learning about what makes a good game – the design, colors, challenge, etc. and critiquing already created games; Part 2 – The physics and math involved in game creation as well as different jobs available in the game creation field; Part 3 – Create games using the Construct 2 program; Part 4 – Create an original game of your own and learning about marketing options.

### **GAME:IT ADVANCED**

Prerequisite: None

Length of course: Semester

Grades: 9-10-11-12

1 Credit

Throughout this course, the instructions for completing each step is found on videos on the students' assigned online account through Stem Fuse. The course combines three main computer programs to create the game: Unity, Blender and Gimp. The student does not need prior programming experience to complete this course. Students begin by learning C# programming language using Unity. Then they use Blender to 3-D model their game "pieces" which they will import into Unity upon completion. Then the student will add the gamification element to their design.

### **VREP (Virtual Reality Education Pathways)**

Prerequisite: Inclusion determined through application and interview process

Length of Course: Semester



Grades: 9-10-11-12

1 Credit

Are you interested in creating 3-D animation and virtual worlds? Do you like to create computer code? Well then, this class may be for you. This independent study course, conducted with instructors as mentors, offers students interested in 3-D animation and virtual reality an opportunity to expand their knowledge by creating projects of personal and/or educational value.

### **S.W.A.T. (Students Will Assist Technology) Team**

Prerequisite: Have recommendations from staff as to their self-motivation and receive permission to enroll

Length of course: Semester

Grades: 7-8-9-10-11-12

1 Credit per Semester

The S.W.A.T. (Students will assist with Technology) Team course is a hands-on study of technology integration needs within the Howard-Winneshiek CSD. Students will be required to assess problem sets throughout the day and define the best approach to solving the problem. In addition to solving problems for their classmates and teachers, students will learn new technologies (hardware and software) and be prepared to assist faculty, staff and students to make use of the technology as well as preparing written and video tutorials of the technology that will be curated for future use. Although students may choose to be on the S.W.A.T. team for one semester only, this class may be taken for credit for multiple semesters and school years.

## **HEALTH AND PHYSICAL EDUCATION DEPARTMENT**

### **9th – 10th PHYSICAL EDUCATION**

Length of Course: Year

Grades: 9-10

1 credit

Physical Education is required each semester, each year for all grades nine through twelve. One credit is awarded for each year's successful completion of the course. A total of four (4) credits are required for graduation. Only under specific, extenuating circumstances is this overlooked. The following individual and team activities will be offered: Physical Fitness testing – Frisbee golf – Horse shoes – High Intensity games - Archery - Bowling - Pickell Ball - Badminton - Volleyball - Softball, Physical Fitness Circuit.

### **11th – 12th PHYSICAL EDUCATION**

Length of Course: Year

Grades: 11-12

1 credit

Physical Education is required each semester, each year for all grades nine through twelve. One credit is awarded for each year's successful completion of the course. A total of four (4) credits are required for graduation. Only under specific, extenuating circumstances is this overlooked. The following advanced units in individual and team activities will be offered: Physical Fitness testing - Frisbee Golf - Horse shoes - High Intensity games - Archery - Bowling - Pickell Ball - Badminton - Volleyball - Softball - Physical Fitness Circuit – CPR.

### **BIGGER or BETTER, FASTER, STRONGER (BFS)**

Length of Course: Year

Grades: 9-10-11-12

2 credits

This class meets every day of the week for a full semester. A letter grade will be given each quarter. BFS counts as your Physical Education requirement. In the class, the students will follow the Bigger, Faster, Stronger program. A Set-Rep logbook journal is required to daily keep track of each student's performance. Three day a week, the students will lift, using the core and auxiliary lifts. Two times a week the students will work on speed, ply metrics, and flexibility. Student needs to maintain a "C" in the class to stay in.

### **SPORTS WAIVER**

Length of Course: Semester

Grades: 11 or 12

.5 Credits

Juniors and seniors are eligible to request and utilize the PE/Sports privilege. Upon approval of this request, juniors and seniors are allowed to waive required PE attendance during the semester in which their sport is held. Students must still follow the 6.5 classes with waiver included per semester rule.

**1. The Sports Waiver request must be made in writing during the Spring registration process for the upcoming school year.**

2. Junior and seniors eligible for the waiver are students who participating in at least one of the following: football, volleyball, basketball, wrestling, golf, track or cheerleading.

3. The Sports Waiver can only be utilized one semester during the junior year and one semester during the senior year.

4. The Sports waiver must be used in the fall semester for a fall sport and during the spring semester for winter or spring sport.

5. Students who are on a Sports Waiver and quit or do not fulfill that sport or have the waiver withdrawn must either enroll in a PE class during that semester or complete double PE classes the next semester. Since PE is required each semester of the high school career, seniors who drop from a spring sport while on a waiver are required to take double PE for the duration of the spring semester in order to graduate.

### **HEALTH I**

Length of course: Semester

Grades: 9-10

1 credit

This course will enable the student to assume individual responsibility for development and maintenance of personal attitudes and behaviors that promote total wellness and safety for themselves and others around them. Through instruction in health, you will acquire a focus on the values and practices that result in a healthy human lifestyle

### **HEALTH II**

Length of course: Semester

Grades: 11-12

1 credit

Health II provides each student with the opportunity to explore the Health and Wellness field in more detail. Emphasis during the semester will be placed on discovering careers and developing a plan of personal well-being. Part of the semester will be working with outside agencies in the health career field.

## **INDUSTRIAL TECHNOLOGY DEPARTMENT**

## **MANUFACTURING**

*(Northeast Iowa Community College Credit available)*

Prerequisite: Passing grades in all core courses

Length of Course: Semester

Grades: 9-10-11-12

1 Credit

Manufacturing will provide the students with an introduction to the manufacturing processes through industrial production experiences to include: drafting, computer design, woodworking as well as various individual projects. Opportunities for mastering basic competencies needed for more advanced course work will be provided.

## **TECHNICAL DRAWING**

*(Northeast Iowa Community College Credit available)*

Prerequisite: 80% Mastery of Manufacturing Competencies or instructor approval

Length of Course: Semester

Grades: 9-10-11-12

1 Credit

Technical Drawing will provide students with interests in engineering, architecture, and manufacturing. This course will cover basic drafting, geometric construction, dimensioning, and multi-view projection. These fundamentals will be learned through utilization of the drafting board and computer. Computer aided drafting programs will enable students to further manipulate their drawings. This course will be articulated with community colleges to provide advanced placement.

## **ARCHITECTURAL DRAFTING**

Prerequisite: 80% Mastery of Computer Assisted Drafting competencies or instructor approval

Length of Course: Semester

Grades: 10-11-12

1 Credit

Architectural drafting will provide students with advanced computer aided drafting skills by designing a house to include: foundation, basement, main floor(s), roof, and heating, ventilation, plumbing, and electrical systems in blue print and 3-D visualization. This course will be articulated with community colleges to provide advanced placement. This course will be offered every other year during even years.

## **ENGINEERING PROBLEM SOLVING**

Prerequisite: 80% master of Manufacturing, Computer Aided Drafting and instructor approval

Length of Course: Year

Grades: 10-11-12

2 Credits

Engineering Problem Solving will enable students to design, make scale models, and construct projects utilizing skills mastered in the Manufacturing, CAD, and Computer Mill and Lathe Design courses. The course will be articulated with community colleges to provide advanced placement.

## **PRINCIPLES OF CONSTRUCTION**

*Northeast Iowa Community College concurrent enrollment course*

Prerequisite: 80% master of Manufacturing competencies or instructor approval

Length of Course: Semester

Grades: 9-10-11-12

1 Credit

Principles of Construction will provide the students the opportunity to explore their interests in residential construction and repair. The course will cover all areas of home construction and maintenance including blue print reading, general construction and the overall upkeep of a home. The course will also cover the many lucrative careers associated with construction.

## **PROJECT LEAD THE WAY (PLTW)**

### **INTRODUCTION TO ENGINEERING DESIGN (IED)**

Prerequisite: Successful completion of Algebra 1 or concurrent enrollment in Algebra 1

*(If semester one grade is below a C- the student will be withdrawn)*

Length of Course: Year

Grades: 9-10 and 11-12 students interested in STEM careers if space allows

2 Credits

Designed as an introductory course to engineering, the major focus of IED is the design process and its application. Through hands-on projects, students apply engineering standards and document their work. Students use industry standard 3D modeling software to help them design solutions to solve proposed problems, document their work using an engineer's notebook, and communicate solutions to peers and members of the professional community.

### **ENGINEERING DESIGN AND DEVELOPMENT (EDD)**

Prerequisite: CIM n

Length of Course: Year

Grade: 12

2 Credits

This capstone course is an open-ended engineering research course in which students work in teams to design and develop an original solution to a well-defined and justified open-ended problem. The knowledge and skills students acquire on the "pathway to engineering" come together in EDD as they identify an issue and then research, design, and test a solution, ultimately presenting their solution to a panel of engineers. Students apply the professional skills they have developed to document a design process to standards completing EDD ready to take on any post-secondary program or career.

### **PRINCIPLES OF ENGINEERING (POE)**

Prerequisite: Algebra I completed successfully

Length of Course: Year

Grade: 10-12

2 Credits

Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.

### **COMPUTER INTEGRATED MANUFACTURING**

Prerequisite: IED and POE

Length of Course: Year

Grade: 11-12

2 Credits

Manufactured items are part of everyday life, yet most students have not been introduced to the high-tech, innovative nature of modern manufacturing. This course illuminates the opportunities related to understanding manufacturing. At the same time, it teaches students about manufacturing processes, product design, robotics and automation. Students can earn a virtual manufacturing badge recognized by the National Manufacturing Badge system.

### **COMPUTER SCIENCE AND SOFTWARE ENGINEERING**

Length of Course: Year

Grade: 9-12

2 Credits

PLTW's CSE course teaches students how to solve problems using computational thinking and skills. CSE introduces students to professional programming languages and platforms and encourages students to use these tools to discover, collaborate, and create. Using Python and other languages, students develop their own app, create dynamic websites, and construct their own graphical user interface

## **MATHEMATICS DEPARTMENT**

- 1.) If a student fails first semester, they may continue with second semester. They do need to re-take the first semester. Advancement to 2nd semester will be a teacher decision on a case by case basis.
- 2.) If a student fails first semester, they may opt to drop the class and repeat the full year next year.
- 3.) If a student fails second semester, they need to repeat the full year. This is necessary because many skills for second semester rely on what students learned first semester and not having that review for first semester will make the second more difficult.

### **PRACTICAL ALGEBRA**

Prerequisite: Completion of 8<sup>th</sup> grade math, and department recommendation

Length of Course: Year

Grades: 9-10

2 Credits

This course is designed to provide a foundation in the fundamentals of Algebra and abundant practice for students to be successful. Topics include basics of algebra, properties of real numbers, solving equations, graphing functions, solving inequalities, exponential functions, and rational expressions.

### **ALGEBRA I**

Prerequisite: Qualifying score on Algebra Aptitude Test

Length of Course: Year

Grades: 9-10-11-12

2 Credits

Algebra I is essential for a college prep student. It is study of the properties, operations, and relations of numbers and of symbols representing numbers. Algebra makes greater use of symbols to represent numbers and ideas than any previous math course. The purpose of Algebra is to enable a person to solve problems that would be difficult or impossible without its methods. The major topics studied are algebraic expressions, solving equations, properties of real numbers, operations with real numbers, solving inequalities and graphing on a number line, solving story problems, simplifying polynomials, factoring, operations with fractional expressions, functions, graphing on a coordinate plane, determining slope and equations of lines, solving systems of equations and inequalities, and working with rational and irrational numbers. It is hoped the logical reasoning processes will develop and transfer to other areas in decision-making and problem solving.

### **ALGEBRA II**

Prerequisite: Geometry ("C" average or above); or successful completion of Applied Business Math

Length of Course: Year

Grades: 10-11-12

2 Credits

Algebra II is an elective college prep course. In it are mathematical ideas that educated people around the world use in their jobs and at their work places. The properties of numbers, graphs, expressions, equations, inequalities, and functions are ideas that run throughout the course. A variety of topics are found, such as, the study of lines, logarithms, quadratic equations, systems of equations, matrices, and trigonometry. Applications are found with each major topic that the student covers. Algebra II should stimulate and increase the student's thinking-reasoning skills which will transfer to other areas when analyzing problem situations and making rational and intelligent decisions. The department recommends taking geometry before registering for Algebra II.

### **GEOMETRY**

Prerequisite: Algebra I ("C" average or above) or Practical Algebra, Practical Geometry with Department approval

Length of Course: Year

Grades: 9-10-11-12

2 Credits

Topics studied in Geometry include: points and lines, defined and undefined terms, postulates and theorems, angles and measurement, conditional logic, oral and written arguments, construction drawings, symmetry, polygons and their properties, transformations, triangle congruence, surface area, volume, similarity, ratio and proportion and circles.

### **PRACTICAL GEOMETRY**

Prerequisite: Successful completion of Algebra I or Practical Algebra with department approval.

Length of Course: Year

Grades: 10-11-12

2 Credits

Topics studied include: points, lines, planes, angles, and measurement, conditional logic, postulates and theorems, symmetry and transformations, polygons and their properties, triangle congruence, area, volume, similarity, ratio and proportion, and circles.

### **APPLIED BUSINESS MATH**

Prerequisite: Geometry or Practical Geometry

Length of Course: Year

Grades: 11-12

2 Credits

Applied Business Math is offered to students who have completed an algebra and geometry sequence. Topics covered are everyday financial situations, related algebra connections, and real-world data that are relevant to business and math concepts. This course includes activities designed to motivate career awareness and financial applications. The content of this course is designed to prepare students for vocational or technical education. This class would complete the third-year math requirement.

### **PRE-CALCULUS**

Prerequisite: Algebra II (at least "C" average)

Required if you plan to take AP Calculus

Length of Course: Year

Grades: 11-12

2 Credits

Throughout the course, finding a mathematical model will be the theme. Models will involve linear, quadratic, exponential, logarithmic, and periodic relationships. Topics studied will include: functions, graphing techniques, sequences, series, probability, data analysis, and trigonometry.

### **AP CALCULUS AB**

Prerequisite: Pre-Calculus

Length of course: Year

Grades: 12

2 Credits

This class is highly recommended for students who plan to major in mathematics, science/physics, engineering, or architecture. Students will have the option to complete the AP Calculus exam in the spring in order to receive college credit. AP Calculus is structured around three big ideas: limits, derivatives, integrals, and the Fundamental Theorem of Calculus. Students will learn how to use mathematical lines of reasoning and use them to apply mathematical concepts and tools to solve problems.

## MISCELLANEOUS COURSES

### **MINDSET DEVELOPMENT I**

Length of Course: Semester

Grades: 10-11-12

1 Credit

The course Mindset Development will enhance student's ability to develop a successful mindset, impacting all aspects of their life. Students will explore and develop self-awareness, self-leadership and qualities of successful people.

### **MINDSET DEVELOPMENT II**

Prerequisite: Mindset Development I

Length of Course: Semester

Grades: 10-11-12

1 Credit

The course Mindset Development II is an extension of Mindset Development I and will continue to enhance student's ability to develop a successful mindset, impacting all aspects of their life. Students will explore and develop self-awareness, self-leadership and qualities of successful people.

### **EARLY GRADUATION**

Prerequisite: Parental Approval

Length of Program: Semester

Grade: 12

It is the schools' belief that in most cases students profit by staying in school a full eight semesters (Grades 9, 10, 11, and 12) and by taking all the courses available to them regardless of the total number of credits they accumulate. However, for the student who has made a decision concerning post high school education and has an opportunity to put this choice into action earlier than the regular graduation date, it is possible to request early graduation and complete his/her high school experience in seven semesters. A student who has made this decision should register for Early Graduation in the spring of his/her junior year and complete the Early Graduation application.

### **HW STRATEGIES FOR ACADEMIC SUCCESS**

Prerequisite: None

Length of Course: Semester

Grades: 9 (required)

1 Credit

This course is offered online with teacher support and guidance through a program called Edmentum. (Plato) The course covers important study skills such as taking high-quality notes, memorization techniques, test-taking strategies, benefits of visual aids, reading techniques, time management skills and assessing emotional well-being. The course is self-paced and self-directed. This course is a pass-fail course and does not affect a student's GPA.

### **DRIVER EDUCATION**

*Provided by NICC. Courses occur as needed but at least one fall, one spring and one summer session will be held.*

Driver Education provides a step-by-step program to develop in the young driver a sense of personal and social responsibility for the community welfare, as it is affected by the operation of motor vehicles. The organizational pattern of the driver education course consists of approximately 34 hours of classroom instruction and 6 hours of behind the wheel driving, using as its basic reference books DRIVE RIGHT, RESPONSIBLE DRIVING and the IOWA DRIVERS GUIDE. The efficiency of living in the total traffic environment - social, physical, psychological, moral and legal aspects is developed in the classroom phase. Throughout the program of driver education, the total traffic safety concept is developed as it related to an ever-increasing traffic oriented society. To register – call the NICC Cresco Center at 563-547-3355.

### **CREDIT RECOVERY COURSES**

Available through referral only. The criteria are based on student need. Online course work is available for Credit Recovery, Special Situations, Dropout Prevention, and Advanced Studies.

## **MUSIC DEPARTMENT**

### **SYMPHONIC AND MARCHING BAND**

Prerequisite: 9<sup>th</sup> grade students: Successful completion of junior high band with recommendation from Director. 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup> grade students: satisfactory participation in previous year's course (content and expectations). Transfer students: Director approval.

Length of Course: Year

Grades: 9-10-11-12

1 Credit per semester

The Crestwood High School Band is a music performance group for students who play woodwind, brass or percussion instruments. The band has a proud history of Superior performances and has traveled widely across the U.S., Canada and even to Europe. Band is a full year course and is recommended for those students who have participated in band previously and have knowledge of an instrument. However, in some cases, exceptions can be made.

In Band, students will learn about music, techniques to play their instrument and will perform a wide mixture of musical styles. Many exciting performance opportunities are available for High School Band Members, including: Large Group Concert Band Contest, Marching Performances/Contests, Solo and Ensemble Festival, Pep Band and Concerts. Members may also audition for Jazz Band or participate in Jazz Combo. Honor Bands are also an outlet for upper level band students, based on their musical experience/aptitude. All band members will participate in the Crestwood Marching Band during the school season.

### **COLOR GUARD**

Prerequisite: Audition

Length of Course: First 9 weeks in the fall semester

Grades: 9-10-11-12

No Academic Credit

Color guard is a performance group within the Crestwood High School Marching Band, offered through audition, to any CHS student for the first quarter of the fall semester. The Color Guard utilizes flags, rifles, costuming, dance, role-playing and other props to creatively enhance performance themes. Students need not play an instrument to be in guard, but must register for the fall class of "Color Guard", participate in scheduled camps and rehearsals and purchase the necessary accessories.

Color Guard members will also have the opportunity to travel on U.S. Band tours when the band is traveling for marching band performances or when a specific Color Guard educational clinic is included in the tour curriculum. Tour participation is also contingent on group fundraising participation.

### **CONCERT CHORALE**

Prerequisite: Concert Choir plus audition and/or instructor approved. Transfers must audition with instructor and have participated in choir two consecutive semesters prior to transfer. "B" average in choir in previous 2 semesters.

Length of Course: Year



Grades: 10-11-12

2 Credits

Concert Chorale is a vocal performance choir consisting of auditioned students. This choir has a history of superior performances. Concert Chorale provides the serious vocal student with many performance opportunities at school and in the community. Students learn and perform many styles of vocal music. The Concert Chorale is responsible for the performances of the Madrigal Dinners, winter and spring concerts, Large Group Contest and graduation.

Concert Chorale participation includes the student meeting every day for scheduled class rehearsals, a vocal lesson once each week and scheduled sectional rehearsals that are held before school. Lessons include rhythms, sight singing, class music and solos. Students earn a combined grade of classroom work, sectional attendance, concert performances, and lesson attendance.

Optional events: All-State auditions, solo/ensemble, musical, singing National Anthem at sports events.

Course Requirements:

1. Meet in daily classroom rehearsals
2. Attend lessons per quarter
3. Attend sectional rehearsals
4. Perform in all scheduled, required events

### **TREBLE CHOIR**

Prerequisite: Concert Choir plus audition and/or instructor approval. Transfers must have completed two consecutive semesters of choir prior to transfer. "B" average in choir in previous 2 semesters.

Length of Course: Year

Grades: 10-11-12

2 Credits

Treble choir is a vocal performance choir consisting of auditioned treble voices. Students learn many styles of music and perform many styles while learning to sing three and four-part treble music. Performance opportunities that are required are the Madrigal dinners, winter and spring concerts, and Large Group Contest.

Treble Choir participation includes the student meeting daily for scheduled class rehearsals, a vocal lesson once each week, and scheduled sectional rehearsals that are held before school. Lessons include rhythms, sight singing, class music and solos.

Students earn a combined grade of classroom work, sectional attendance, concert performances and lesson attendance. Optional events: All State auditions, solo/ensemble, musical, singing National Anthem at sports events.

### **ANCIENT MUSICAL INSTRUMENTS**

Prerequisite: permission of the instructor, must be currently enrolled in the choir program

Length of Course: semester (first semester only)

Limited number: Class limited to 2-3 students

Grades: 10-11-12

1 Credit

Students learn to play, through this independent study, a variety of ancient instruments that are not in common use in our modern society. The available instruments include: Irish lap harp, recorder, bowed psaltery, hammered dulcimer and the Bodhran. The students must become proficient enough on each instrument to perform a piece for the instructor. The student will then choose an instrument to play during the Madrigal dinners. Optional events: Final concert, final paper tracing history and background of specialized instrument

### **CONCERT CHOIR**

Prerequisite: None

Length of Course: Year

Grades: 9-10-11-12

2 credits

The Concert Choir is designed to provide training in sound vocal techniques, sight singing, rhythmic training, and reading basic notation, as well as providing a limited performance outlet. In addition to providing a general body of musical knowledge that will be applicable throughout adult life, the Concert Choir also provides an opportunity for young vocalists to work on literature that is age and ability appropriate. Concert Choir members participate in all scheduled concerts and Large Group Contest.

Optional events: Solo/Ensemble, Musical, All-State auditions, Madrigal

Student participation includes the student meeting every day for scheduled class rehearsals and a vocal lesson once each week. Lessons include rhythms, sight singing, class music and solos. Students earn a combined grade of classroom work and lesson attendance that reflects performance goals and effort.

## **SCIENCE DEPARTMENT**

### **PHYSICAL SCIENCE**

#### **Required**

Prerequisite: None

Length of Course: Year

Grades: 9

2 Credits

A study of basic concepts of chemical interactions, force and motion and electronics. The course includes the topics of Newton's Laws force, work, speed, acceleration, heat, electricity, measurement, physical properties, chemical properties, chemical equations, and the periodic table. Time will be spent doing experiments that relate these concepts to the everyday world around us. Students are given the opportunity to develop logical thinking, to make scientific calculations, to work effectively with others in the laboratory and in the classroom. All 9th graders must register for and pass this course in order to meet graduation requirements.

### **BIOLOGY**

#### **Required**

Prerequisite: None

Length of Course: Year

Grades: 10

2 Credits

Biology is a general course required of all 10th graders. It is the study of all living organisms. The course includes the study of various cells and cell structures, genetic material (DNA and RNA), inheritance of traits, evolution of organisms, microorganisms, invertebrates, vertebrates, and plants. The students will incorporate the scientific method to solve various questions. Other experiences will include group discussion, cooperative group projects, lab activities, dissection of preserved specimens, and the observation of living specimens.

### **CHEMISTRY**

#### **Elective**

Prerequisite: Algebra I, Geometry, and Biology (with a grade of C or higher in all courses)

Length of Course: Year

Grades: 11-12

2 Credits

Chemistry involves the study of basic chemical concepts such as elements, compound, mixtures, chemical bonding, chemical reactions, quantitative analysis of reactions, acids, bases and solutions. Students will apply the scientific method to develop their thinking and mathematical skills in classroom, laboratory and real-world experiences.

### **ADVANCED CHEMISTRY**

#### **Elective**

Prerequisite: Chemistry, Geometry, Algebra I, and Algebra 2 (with a grade of C or higher in all courses)

Length of Course: Year

Grade: 12

2 Credits

Advanced Chemistry is a reinforcement and continuation of Chemistry. The first quarter of Advanced Chemistry will be devoted to a review and reinforcement of "basic" concepts and calculation types introduced in Chemistry. The second quarter will include qualitative analysis, organic chemistry and biochemistry. The third and fourth quarters will be a continuation of organic chemistry, biochemistry and introduction to instrumental analysis. Original projects/research may be included throughout Advanced Chemistry.

### **HUMAN ANATOMY AND PHYSIOLOGY**

#### **Elective**

Prerequisite: Satisfactory completion of Biology

Length of Course: Year

Grades: 11-12

2 Credits

Human Anatomy and Physiology is a course designed to cover, in detail, each of the eleven body systems. This includes the cellular structure, genetic information, structure and functions of organs, diseases and current research of the body. The dissection of various organs and a fetal pig is part of the curriculum to cover the material. Students must assume an active role in his/her own learning by participating in large group discussions, guided practice, cooperative projects, small group activities and laboratory activities.

### **PHYSICS**

#### **Elective**

Prerequisite: Algebra I, Geometry, and Algebra II (can be concurrently with a grade of C or higher in all of these courses)

Length of Course: Year

Grades: 11-12

2 Credits

This course will include analysis and application of the following topics: motion, work, energy, power, heat, light, sound, electricity and magnetism.

### **PRINCIPLES OF THE EARTH**

#### **Elective**

Prerequisite: Successful completion of Biology and Physical Science courses

Length of Course: Year

Grades: 11-12

2 Credits

The purpose of this class is to understand the components of our surroundings, both living and nonliving, and the interactions of these components. The students will address the history and foundations of environmental science, the Earth and its resources and changes it is undergoing, ecological interactions, biomes, habitat destruction, and sustaining a future and protecting the environment.

## **SOCIAL STUDIES DEPARTMENT**

### **20TH CENTURY AMERICAN HISTORY**

Prerequisite: None  
Length of Course: Year  
Grades: 9  
2 Credits

Twentieth Century American History is required of all students. It covers the period from approximately the year 1900 to 2000. Students will learn the story of how the United States grew politically, economically, militarily, and socially to become a major power in the world. Time is also devoted to discussing and analyzing daily events; emphasis is placed on how these events are the result of past historical happenings. Note taking will be emphasized throughout this course. It is also intended that students be able to compare and contrast the events of the past with those of the present.

### **WORLD HISTORY**

Prerequisite: 20<sup>th</sup> Century American History  
Length of Course: Year  
Grades: 10  
2 Credits

World History is a two-semester required course for all 10<sup>th</sup> graders. The first semester will be ancient history and world religions. The second semester will cover the Renaissance through modern history ending around 1850. Sophomores cannot register for World Civilization at the college during their sophomore year.

### **AMERICAN GOVERNMENT**

Prerequisite: None  
Length of Course: Semester  
Grade: 11-12  
1 Credit

All juniors are required to register and pass American Government. This course is based on the assumption that it is important for Americans to know and understand the nature of our American political system. The federal structure is analyzed including the legislative, executive, and judicial branches of our system. An attempt to learn and understand the complex, and sometimes contradictory, forces that influence political actions and the behavior of our official political specialists and unofficial political specialists who make decisions for us.

### **AP GOVERNMENT**

Prerequisite: Students must meet requirements for senior year plus  
Length of Course: Year  
Grade: 11-12  
2 Credits

The AP Government & Politics: United States course provides an analytical perspective on government and politics in the United States. This course involves both the study of general concepts used to interpret U.S. politics and the analysis of specific case studies. It also requires familiarity with the various institutions, groups, beliefs, and the ideas that constitute U.S. political reality. 1<sup>st</sup> semester of AP Government fulfills the requirement of American Government for graduation. Students have the option to test in May. You will need teacher permissions to sign up.

### **WARS IN AMERICAN HISTORY**

Prerequisite: None  
Length of Course: Semester  
Grade: 10-11-12  
1 Credit

This course will investigate the major wars in which the United States has been involved since the nation was founded. These wars include the American Revolutionary War, the Mexican-American War, the Civil War, the Spanish-American War, World War I, and World War 2. The students will study the problems and issues that led to each war, the nation or nations that we opposed, the major battles of each war, the important military and political figures during that time, the cost of the war in terms of casualties, money and resources, and the outcome of each war and how the wars influenced later U.S. and world history.

### **RECENT AMERICAN HISTORY**

Prerequisite: None  
Length of Course: Semester  
Grade: 10-11-12  
1 Credit

The course will study the events of the United States since the end of World War 2. These events would include: the Korean War, the Red Scare, the Civil Rights Movement, the turbulence of the 1960's, the Vietnam War, Presidential elections, the Gulf War, the Iraq-Afghanistan War, terrorism, and the United States in the twenty-first century.

## **SPECIAL EDUCATION DEPARTMENT**

### **TRANSITIONS**

Prerequisite: None  
Length of Course: Year  
Grade: 9-10-11-12  
2 Credits

A course recommended by any IEP team for students with an IEP to meet with a special education teacher to enhance goal areas and meet specially designed instruction guidelines as defined by IDEA. Post-secondary skills for living. Learning and working may also be addressed during this time. Organizational and behavioral needs will be addressed. Progress monitoring will also be completed during this time.

### **WORK STUDY: EJT**

Prerequisite: Vocational Skills  
Length of Course: 2<sup>nd</sup> Semester  
Grade: 11  
Credit: 1 credit per hour per semester

Exploratory Job Training (EJT): These are non-paid job placements. This experience gives students the opportunity to explore a number of diverse occupations. Local business and industry act as an extension of the classroom in following specific goals and objectives designed for each individual student. The training plan is developed by work experience coordinators and the classroom instructors. The students receive exploratory experiences at a number of job sites during the school year, with related instruction in the classroom.

On-the-Job Training Placements (OJT): Depending upon the status of the economy, these may or may not be paid job placements. After a student has successfully completed his/her exploratory experiences, he/she is then eligible for on-the-job training. The goal in this phase is to assist the student in developing skills to become competitively employable. This phase is generally incorporated during the senior year in high school. The student may be paid for this training experience by the employer or by other funding sources.

What students are expected to do:

1. Attend job site regularly
2. Call both school and job site if absent
3. Display positive attitude
4. Perform job skills/tasks to ability level

**BASIC MATH 9**

Prerequisite: Teacher recommendation

Length of Class: Year

Grades: 9

2 credits

Topics include: whole numbers, number theory, fractions, decimals, ratio and proportion, percent, metric measurement, customary measurement, graphs, scale drawing, and pre-algebra.

**BASIC MATH 10**

Prerequisite: IEP recommendation

Length of Class: Year

Grades: 10

2 credits

Topics include: pre-algebra, applying math skills to daily living and problem solving.

**CONSUMER MATH**

Prerequisite: Teacher recommendation or permission from instructor.

Length of Class: Year

Grades: 11-12

2 credits

This class is designed as a third-year math course for specific students. Topics of discussion include managing credit cards, balancing a checking account, preparing a budget, purchasing homes, vehicles, and many other topics students will need to be familiar with after high school. The class is a balance of traditional math assignments, projects, discussion, research, and listening to guest speakers. This is meant to prepare students to be wise consumers and manage money effectively.

**BASIC ENGLISH 9**

Prerequisite: Teacher recommendation

Length of Class: Year

Grades: 9

2 credits

The course includes exercises in literary analysis. The areas to be analyzed include: character, setting, conflict, narration, themes, use of language, historical fiction and fantasy. Analysis will be done while reading short stories, nonfiction and fiction novels and best chapters.

The composition component of this course includes assignments in the writing process, writing techniques, grammar skills (usage, sentence structure, punctuation and mechanics) and vocabulary enrichment.

**BASIC ENGLISH 10**

Prerequisite: English 9

Length of Class; Year

Grade; 10

2 Credits

Students will be given several writing assignments such as writing directions and other prompts where two or more paragraphs will be required. Students are also required to give oral presentations.

In addition, a portion of the class will focus on reading literature and developing an expanded vocabulary.

Objectives: Write two to three paragraphs on a given topic, Read and discuss literature. Expand usable vocabulary.

**BASIC READING**

Prerequisite: Team recommendation

Length of Course: Year

Grades: 9-10-11-12

2 Credits

Basic Reading is a course that is taught in a small group setting. It includes the study of short stories, nonfiction and fiction works, and various literary forms to establish purposes for reading. Students will engage in opportunities to read texts both silently and aloud to develop pace and fluency as readers. Comprehension strategies, vocabulary development, and individual reading goals are the focus of this course. Teacher and team recommendation is required for placement in this class.

### **LIFESKILLS I**

Prerequisite: Team and teacher approval

Length of class: Year

Grades: 11

2 Credits

This course comprises a complete academic program in teaching students the importance of math competence in money management, banking, career choices, consumerism, business and everyday living.

### **LIFESKILLS II**

Prerequisite: Team and teacher approval

Length of class: Year

Grades: 12

2 Credits

This course includes advanced work in the following areas: understanding the practical aspects of job hunting, computing wages & earnings, investigating want ads, understanding insurance, using credit cards, taking out a loan, automobile expenses, taxes, housing, investments, and personal finance in everyday living.

What Students are expected to do:

1. Attend class and be prepared on a daily basis.
2. Behave

### **VOCATIONAL SKILLS**

Prerequisite: None

Length of Course: Semester

Grades: 11-12

1 Credit

This course will emphasize workforce preparation for students with the purpose of providing students with first-hand experience in job opportunities. This course will help students become better prepared to make the transition from school to work. This course covers such topics as preparing for work, career planning, skills needed in the workplace, money management, and independent living. Students enrolled in the class will also be expected to have a job-site experience. They will spend a minimum of 15 hours per week at the job site. Students will receive high school credit for hours worked.

## **Crestwood High School Alternative Education Program**

Students are only eligible to participate in the alternative program by referral. A student, parent, teacher or administrator can make this referral. A team is assembled to review a student's needs before acceptance to the program is granted. Courses in the alternative program are aligned to the equivalent course within the regular high school setting; the courses are offered through textbooks, online curriculum, and/or a hybrid setting in and out of the school building. NICC courses are available if the student meets the Senior Year Plus Guidelines and has completed core courses through the sophomore year.

## **SENIOR YEAR PLUS REQUIREMENTS**

The intent of the Senior Year Plus statute is to ensure all students in Iowa have increased access to courses that have the potential to generate college credit while in high school. Students in concurrent enrollment as well as PICC courses must be juniors or

seniors or TAG freshman and sophomores or enrolled in the construction career or PLTW pathway. The statute requires all students enrolling in college credit courses be proficient in reading, math, and science. Career and Technical Coursework for Dual Credit is exempt from meeting the Reading, Math, and Science Proficiency requirements in Senior Year Plus guidelines. At Crestwood High School, concurrent enrollment courses include:

- Advanced Placement courses (AP)
- Contracted courses and PICC (Placement in College Credit) at Northeast Iowa Community College
- Iowa Communication Network Courses (ICN)
- Iowa Learning Online courses (ILO)

Crestwood uses the following assessments to determine proficiency: Iowa Assessments, MAPS testing, Accuplacer, ALEKS testing and ACT testing.

Credits earned from a community college or a university is subject to a 3 to 1 ratio. For example, 3 community college credits equal 1 Crestwood credit. Students are allowed to take only 23 ½ college credits per academic year.

The ALEKS math test is given to students by NICC in order to qualify for courses that have math proficiency level needed for enrollment. The ALEKS test is taken to qualify for Dosage Calculation and other math courses offered by NICC. Crestwood High School will pay for one (1) student account. If a student exhausts their login retest attempts, loses their account login info or creates a second account on their own, the student or family will be responsible for the additional charges.

## **NICC CLASSES**

### **PRINCIPLES OF AGRONOMY – *AGA:114***

Prerequisite: Fundamentals of Agriscience and Horticulture or Agriculture Production (Or instructor approval)

Length of Course: Semester

Grades: 11-12

1 Credit

Introductory principles plant-soil-climate relationships in crop production.

This course provides students the basic concepts in crop growth and physiology. Units of instruction include crop plant anatomy, crop plant classification and identification, crop physiology, climate, soils, soil water, tillage and seeding, plant breeding, seed and grain quality, weeds, insects, crop diseases, and crop harvesting and storage.

The course is designed after a similar course at Iowa State University and uses many of the same materials.

### **INTRODUCTION TO AGRICULTURAL MARKETING – *AGB:235***

Prerequisite: None

Length of Course: Semester

Grades: 11-12

1 Credit

An overview to the agriculture markets and marketing systems and how these are evolving in a rapidly changing global market. Students learn how to analyze markets and pricing alternatives and how to use the futures markets to lock-in or improve profits. Includes the study of farm-

level price behavior, pricing systems and marketing management, technical analysis, and use of other market information.

### **FARM BUSINESS MANAGEMENT – *AGB:330***

Prerequisites: Agriculture Management the previous semester and instructor's approval

Length of Course: Spring Semester

Grades: 11-12

1 Credit



This course will cover all aspects of farm management, including record keeping, budgeting, year-end analysis, enterprise analysis, and tax management. The course goals are to understand the economic principles relevant to making farm business decisions, how to evaluate the performance of the farm business, and the budgeting process. Additionally, the student will understand the resources required in farming.

#### **WORKING WITH ANIMALS - AGS:101**

Prerequisite: None

Length of Course: Fall Semester

Grades: 11-12

0.667 Credits

This course is taught in conjunction with Survey of the Animal Industry. The intent is to give students practical experience working with animals.

Time would be spent out of regular class time with various competitions and contests. Example: FFA competitions.

#### **SURVEY OF THE ANIMAL INDUSTRY - AGS:114**

Prerequisite: None

Length of Course: Fall Semester

Grades: 11-12

0.667 Credits

This course will explore breeds, basic management, and marketing of farm animals. Includes topics on beef and dairy cattle, companion animals, horses, poultry, sheep, and swine. This course is taught in conjunction with Working with Animals - 443.

#### **ANIMAL SCIENCE – AGS-118**

Prerequisite: None

Length of Course: Semester

Grades: 12

3 Credits

Designed for high school seniors and college freshmen as an overview of the animal science industry. Explores breeds, basic management and farm animal marketing. Topics include beef and dairy cattle, companion animals, horses, poultry, sheep and swine.

#### **VETERINARY MEDICAL TERMINOLOGY – AGV:121**

Prerequisite: None

Length of Course: Semester

Grades: 11-12

2 Credits

Discussion of prefixes, suffixes and roots (mostly Greek and Latin) that comprise medical terms.

#### **MANUFACTURING PRINT READING MODULE II – MFG:127**

Length of Course: Semester

Grade: 11-12

1 Credit

Builds on skills developed MFG:126: Dealing with orthographic projection of inclined planes, foreshortened views, angular dimensions, slots and grooves, reference dimensions, blind holes, chamfers, keyways and keyseats, counterbores and countersinks, angular hole locations, castings, finish symbols, finish allowance, fillets and rounds, clearance holes, half-views, starting dimensions, surface roughness, bosses and pads, slotted holes, tapers, limits, partial enlarged views, heat treat notes, sectional views, annular grooves, wall thickness calculations, spot facing, revolved sections, broken out sections, removed sections and offset sections. This course begins to build basic blueprint drafting skills. **Prerequisite: MFG:126**

### **HUMAN ANATOMY AND PHYSIOLOGY I WITH LAB - *BIO:168***

Length of Course: Semester

Grade: 11-12

1 Credit

This course introduces the structure and function of the human body, beginning with a study of the molecular, cellular and tissue levels, and continuing with emphasis on selected organ systems.

A study of basic principles of human anatomy and physiology based on laboratory experimentation in microscopy and dissection, with emphasis on the atomic, cellular, tissue and organ system levels of organization.

### **HUMAN ANATOMY AND PHYSIOLOGY II WITH LAB - *BIO:173***

Length of Course: Semester

Grade: 11-12

1 Credit

This course continues the study of structure and function of the human body as introduced by Human Anatomy and Physiology I, with review of the molecular, cellular, and tissue levels of organization and emphasis on selected organ systems.

A continued study of basic principles of human anatomy and physiology based on laboratory experimentation in microscopy and dissection, with emphasis on the organ system levels of organization.

### **INTRODUCTION TO NUTRITION – *PNN:270***

Length of Course: Semester

Grade: 11-12

1 Credit

Emphasizes a practical knowledge of good nutrition and some knowledge of diet therapy. Includes a background of adequate and accurate information on basic nutritional needs of the body.

### **COMPOSITION I - *ENG:105***

Length of Course: Semester

Grade: 11-12

1 Credit

Preparation for the types of communication and thought essential to academic and working world success. The course focuses on writing as a process and is intended to help students identify and refine their own personal writing. **Prerequisite: Qualifying placement scores or ENG-021 with a minimum grade of C-**

### **COMPOSTION II - *ENG:106***

Length of Course: Semester

Grade: 11-12

1 Credit

A writing course that focuses on writing as a process with emphasis on persuasion, evaluation, analysis, investigation and research and documentation of sources. **Prerequisite: A minimum grade of C- in ENG:105 or an equivalent college level course in composition.**

### **ENVIRONMENTAL SCIENCE - ENV:115**

Length of Course: Semester

Grade: 11-12

1 Credit

A study of the biological basis of environmental science and human influence on biosphere dynamics. Emphasis on scientific principles, inter-relationships among resources, pollution and environmental degradation, soil and water conservation, and the impact that politics, economics, ethics and the world view have on the future direction for the life on the planet.

### **ENVIRONMENTAL SCIENCE LAB - ENV:116**

Length of Course: Semester

Grade: 11-12

0.334 Credits

To be taken in conjunction with Environmental Science.

A laboratory experience that supports and applies basic concepts of resource management, soil and water conservation, general ecological dynamics, and scientific principles to the inter-relationships among resources, the environment and human interactions.

### **NATURAL RESOURCE CONSERVATION - ENV:140**

Length of Course: Semester

Grade: 11-12

1.334 Credits

A study of the general principles of natural resource conservation with an emphasis on local conservation organizations, indigenous resources and typical management activities. Special consideration given to environmental preservation, recreational function, conflicting utilization policies and employment opportunities in natural resource conservation and management.

### **WORLD CIVILIZATION I - HIS:131**

Length of Course: Semester

Grade: 11-12

1 Credit

A survey course in World Civilization from pre-history to 1500. The class examines four major civilizations. Middle East, Indian, Chinese and European. The civilization components of religion, philosophy, art and architecture are integrated with the political history of the Middle East, India, China, Africa and Europe.

### **WORLD CIVILIZATION II - HIS:132**

Length of Course: Second Semester

Grade: 11-12

1 Credit

A survey in World Civilization from 1500 to modern times. The class examines four major civilizations. Middle East, Indian, Chinese and European. The course is designed to focus on the emergence of modern civilization including the Age of Discovery. The Protestant Reformation, Age of Enlightenment and the rise of modern cultures in Asia, Europe, Africa and the Americas. The course focuses on the rise of nationalism, industrialization, colonialism, liberalism, democracy, socialism and the great changes brought about by the World Wars, the Great Depression, fascism, communism, the end of colonialism and the Cold War's end.

**INTRODUCTION TO LITERATURE - LIT:101**

Length of Course: Semester

Grade: 11-12

1 Credit

Focuses on the craft of narrative literature with an emphasis on analysis and response. Included the study of established as well as recent literary texts. **Prerequisite is College Comp I with a minimum grade of C-**

**INTRODUCTION TO PSYCHOLOGY - PSY:111**

Length of Course: Semester

Grade: 11-12

1 Credit

A survey of psychology including theoretical and experimental findings and applications from areas such as physiological learning, memory, personality, social, abnormal, and therapy.

**PSYCHOLOGY OF HUMAN RELATIONS - PSY:112**

Length of Course: Semester

Grade: 11-12

1 Credit

Covers all types of interactions among people – their conflicts, cooperative efforts, and group relationships. It is the study of those beliefs, attitudes, and behaviors that cause interpersonal conflict in our personal lives and in work-related situations.

**DEVELOPMENTAL PSYCHOLOGY - PSY:121**

Length of Course: Semester

Grade: 11-12

1 Credit

An introductory course in human growth and development throughout the life span, including genetic, health, family, social networks, and other determinants of development. Includes related theories and theorists.

**INTRODUCTION TO SOCIOLOGY - SOC:110**

Length of Course: Semester

Grade: 11-12

1 Credit

A study of basic sociological principles and basic processes of group behavior includes the study of social interaction, family and group life, social institutions, status and role, culture, population, structure and change, and community structures (both urban and rural).

**PUBLIC SPEAKING - SPC:112**

Length of Course: Semester

Grade: 11-12

1 Credit

An introductory course which emphasizes actual speaking experiences with practice choosing subjects, analyzing audiences and preparing and delivering a variety of extemporaneous speeches. Opportunity will be given to develop skills in listening and group discussion techniques.

#### **GAS TUNGSTEN ARC WELDING - *WEL:192***

Length of Course: Semester

Grade: 11-12

2 Credits

Gas tungsten arc welding (TIG) and other related processes. Studies topics such as process variation, welding in various positions, principle of operation, shielding gases and filler rods. Stresses safety and practical application of these welding processes. **Pre-corequisites: WEL:110, WEL:228**

#### **INTRODUCTION TO WELDING, SAFETY AND HEALTH OF WELDERS: SENSE 1 – *WEL:228***

Length of Course: Semester

Grade: 11-12

2 Credits

Orientation to the welding profession covering basics of safety and health in the welding profession. This course aligns to SENSE Level 1, Module 1 and Module 2; Key Indicators 1-6.

#### **WELDING BLUEPRINT READING - *WEL:110***

Length of Course: Semester

Grade: 11-12

2 Credits

Introduces the concept and practice of blueprint interpretation as needed by welders in an industrial setting. Emphasis is on the basics of interpretation and application in specific situations. **Pre-/corequisite: WEL:228**

#### **BASIC ARC WELDING (SMAW) - *WEL:427***

Length of Course: Semester

Grade: 11-12

2 Credits

The operation of AC transformer and DC motor generation arc welding machines. Studies welding heats, polarities and electrodes for use in joining various metal alloys by the arc welding process. Once capable of running beads, students will create 1G and 1F groove and fillet welds to D1.1 AWS code. Emphasizes safety procedures throughout the course in the use of tools and equipment. **Pre-corequisites: WEL:110, WEL:228**

#### **BASIC GAS METAL ARC WELDING (GMAW) - *WEL:433***

Length of Course: Semester

Grade: 11-12

2 Credits

Introductory study of Short-Circuit Gas Metal Arc Welding (GMAW) and other related processes. Studies topics such as process variation, welding in various positions, principle of operation, shielding gases and wires. Stresses safety and practical application of these welding processes. **Pre-corequisites: WEL:110, WEL:228**

#### **FLAME/PLASMA CUTTING FUNDAMENTALS – *WEL:434***

Length of Course: Semester

Grade: 11-12

2 Credits

The history and principles of material cutting and the nomenclature of the equipment. Practices procedures such as cutting, beveling plates and scarfing plates. **Pre-corequisite: WEL:228**

### **MACHINE OPERATIONS I - MFG:241 (concurrent with MFG:121)**

Length of Course: Semester  
Grade: 11-12  
1 Credit

An introductory machining course presenting basic machining operations. Students will perform basic operations on lathes, horizontal and vertical axis milling machines, drilling machines, saws, various types of grinders, and precision measuring equipment.

### **INTRODUCTION TO BASIC CNC MILL OPERATIONS - MFG:293**

Length of Course: Semester  
Grade: 11-12  
1 Credit

Introduces proper use of 3-axis CNC (computer numerical controlled) mills and machining centers. Students will safely set tool and fixture offsets as well as use verified programs and selected tooling to complete part projects on CNC machining centers.

**Pre-/corequisite: MFG:126**

### **INTRODUCTION TO BASIC CNC LATHE OPERATIONS - MFG:295**

Length of Course: Semester  
Grade: 11-12  
1 Credit

Introduces proper use of 2-axis CNC (computer numerical controlled) lathes and turning centers. Students will safely set tool and fixture offsets as well as use verified programs and selected tooling to complete part projects on CNC turning centers. **Pre-/corequisite: MFG:126**

### **INTRODUCTION TO CNC LATHE PROGRAMMING - MFG:344**

Length of Course: Semester  
Grade: 11-12  
1 Credit

Introduces writing programming code for CNC (computer numerical controlled) lathes and turning centers. Students write and verify EIA and ISO G and M code programs for 2-axis CNC turning centers. **Prerequisite: MFG:126**

### **INTRODUCTION TO CNC MILL PROGRAMMING - MFG:345**

Length of Course: Semester  
Grade: 11-12  
1 Credit

Introduces writing programming code for CNC (computer numerical controlled) mills and machining centers. Students write and verify EIA and ISO G and M code programs for 3-axis CNC machining centers. **Prerequisite: MFG:126**

### **CNC PROGRAMMING LAB - MFG:346**

Length of Course: Semester  
Grade: 11-12  
1 Credit

Builds on program code writing skills and CNC setup and operation skills by allowing students to setup and make projects they wrote programs for in previous courses. **Pre-/corequisites: MFG:344, MFG:345**

### **INTRODUCTION TO PRECISION MEASUREMENT AND INSPECTION FUNDAMENTALS – MFG:161**

Length of Course: Semester 1

Grade: 11-12

1 Credit

Stresses the principles and proper use of precision inspection tooling in a manufacturing environment. Consistent measurement and inspection maintains standardization and ensures that out-of-tolerance parts do not reach customers. Students learn to describe the use and care of common inspection instruments and gauges used in the production environment and effectively use them. Deals with tools such as different types of micrometers, calipers, the Vernier scale, plug and pin gauges, bore and small hole gauges, optical comparators, gauge blocks, height gauges, thread gauges, and other tools used in industry.

### **PLANT SAFETY – MFG:187**

Length of Course: Semester

Grade: 11-12

1 Credit

Discusses safety in a manufacturing workplace. Develops skills to work in the industrial environment. Teaches basic safety for chemical, health hazards, and tool safety.

### **PERSONAL FINANCE - FIN:122**

Length of Course: Semester

Grade: 11-12

1 Credit

An overview of personal and family financial planning emphasizing personal financial record keeping, planning spending, tax planning, consumer credit, making buying decisions, purchasing insurance, selecting investments, and retirement and estate planning.

### **PRINCIPLES OF MANAGEMENT – MGT:102**

Length of Course: Semester

Grade: 11-12

1 Credit

Studies basic factors in the work environment that affect managerial decision making. Emphasizes the four functions of management with discussion of managerial ethics and social responsibility.

### **PRINCIPLES OF MACROECONOMICS – ECN:130**

Length of Course: Semester

Grade: 11-12

1 Credit

Presents material essential to an understanding of microeconomic theory and concepts: constrained maximization, scarcity, opportunity costs, marginal decision-making, indifference curve analysis, budget constraint analysis, production cost analysis, various market structures, roles each sector of our economy plays and diverse economic problems that plague our economy.

### **EARLY CHILDHOOD CURRICULUM I – ECE:158**

Length of Course: Semester

Grade: 11-12

1 Credit

Focuses on the development, implementation, and assessment of appropriate environments and curricula for young children ages three through eight. Students prepare to utilize developmentally appropriate practices in a context of family and culturally sensitive care. Emphasis is on understanding children's developmental stages and developing appropriate learning opportunities, interactions and environments in the areas of dramatic play, art, music, fine and gross motor play.

**CHILD GROWTH AND DEVELOPMENT – ECE:170**

Length of Course: Semester

Grade: 11-12

1 Credit

Reviews typical and atypical development of children from conception to adolescence in all developmental domains. Examines interactions between child, family and society within a variety of community and cultural contexts. Examines theories and evidence-based practices associated with understanding and supporting young children.

**INFANT AND TODDLER CARE AND EDUCATION – ECE:221**

Length of Course: Semester

Grade: 11-12

1 Credit

The growth and development of infants and toddlers and issues critical to their care. Emphasizes development, health and safety, developmentally appropriate practices, curriculum, and environments. Includes theoretical perspectives, trends in American families.

**CHILD HEALTH, SAFETY, AND NUTRITION – ECE:133**

Length of Course: Semester

Grade: 11-12

1 Credit

Addresses the interrelationship of health, safety, and nutrition to the growth and development of young children. Based on the preventive health concept, emphasis given to nutrient composition of foods, the relationship of nutrients to growth, motor, cognitive, and emotional development. Includes conditions affecting children's health, management of acute and chronic illness, and general safety principles in planning the young child's environment.

**THE COLLEGE EXPERIENCE – SDV:179**

Length of Course: Semester

Grade: 11-12

1 Credit

College is a new and different experience for many students. This course conveys expectations of the college culture to first-time college students. It provides an examination of the student's learning styles, familiarization with college resources and support services, review of important study and test taking skills, development of goal setting and decision-making skills, and enhancement of personal relationship skills that relate directly to success in college.

**PRE-EMPLOYMENT STRATEGIES – SDV:153**

Length of Course: Semester

Grade: 11-12

1 Credit



Basic introduction to skills necessary for entry-level employment positions. Networking with local employers will be a key component. A work performance rating and a National Career Readiness Certificate will be awarded based on WorkKeys testing results which will be recognized in interviewing and compensation practices of some local employers. Stresses options for continuing education through NICC programs. Students may choose to enter directly into the workforce upon course completion.

**TIME AND STRESS MANAGEMENT – *SDV:136***

Grade: 11-12  
1 College Credit  
1 High School Credit

This course is designed to provide students with techniques to effectively manage time and to recognize and reduce stress. The course will emphasize skills that can be applied to the workplace.

**JOB SEEKING SKILLS – *SDV:135***

Grade: 11-12  
1 College Credit  
1 High School Credit

Students will learn to assess personal strengths, to develop job leads, to complete applications, to prepare resume and letters, and to use successful employment interviewing techniques.

**INTRODUCTION TO BUSINESS – *BUS:103***

Length of Course: Semester  
Grade: 11-12  
1 Credit

Exposes students to the role of the bookkeeper, manager, and junior accountant in relation to the many facets of the business world, including the economic system, marketing functions such as sales, production, and finance, and types of business organizations.

**MEDICAL TERMINOLOGY – *HIT:140***

*HYBRID*  
Length of Course: Semester  
Grade: 11-12  
4 College Credits  
1.334 High School Credits  
*64 hours*

The study of medical terminology as the language of medicine with emphasis on word analysis, construction of definitions, pronunciation and spelling of medical terms.

**PRINCIPLES OF DISEASES – *HIT:165***

Length of Course: Semester  
Grade: 11-12  
4 College Credits  
1.334 High School Credits  
*Online/64 hours*

A focus of essential concepts of disease processes in relationship to the etiology, pathogenesis, pathology and treatment of human diseases. **Prerequisite: A minimum grade of C- in HIT:140 or HSC:117**

### **INTRODUCTION TO HEALTH OCCUPATIONS – HSC:110**

Length of Course: Semester

Grade: 11-12

3 College Credits

1 High School Credit

*48 hours*

Orientation to the institutions that make up our healthcare system. Explores the health care system and the ethical, legal and safety issues influencing and regulating health practice and maintenance. Explores health career pathways in therapeutic, diagnostic, health informatics and support services.

### **CERTIFIED NURSE AIDE – HSC:172**

Length of Course: 80 hours

Grade: 11-12

3 College Credits

1 High School Credit

The 80-hour course meets the training of The Omnibus Budget Reconciliation Act of 1987 (OBRA) for aides working in nursing facilities (NF) and skilled nursing facilities (SNF). Emphasizes the achieving of a basic level of knowledge and demonstrating skills to provide safe, effective resident/client care. Students must be 16 years of age to attend clinical. (30/15 and 35 clinical hours). **Prerequisite: Accuplacer reading score of 44 or ACT score of 15**

### **DOSAGE CALCULATIONS – PNN:200**

Length of Course: Semester

Grade: 11-12

1 College Credit

.334 High School Credits

*16 hours*

A review of fractions and decimals, conversions of metric, apothecary and household units and computations of drug dosages. **Prerequisite: ALEKS math score of at least 15%.**

### **INTRO TO NUTRITION – PNN270**

Length of Course: Semester

Grade: 11-12

2 College Credits

.667 High School Credits

*WebE/32 hours*

Emphasizes a practical knowledge of good nutrition and some knowledge of diet therapy. Includes a background of adequate and accurate information on basic nutritional needs of the body.

