WCHS COURSE INFORMATION (Descriptions of Elective Courses)

REVISED: DEC. 2015

English 8 credits required for graduation / English 9, 10, 11, 12 required (Adv. Eng. Courses can substitute for English 11 & 12)

•Speech (11-12) *(One Sem.)*
If you don't want to get up in front of your classmates, this is not the class for you! We give 5-6 prepared speeches and quite a few impromptu speeches. Be prepared to think on your feet. In between speeches, we learn proper speaking techniques, ways to deal with stage fright, and proper formatting for various types of speeches. To cap off the class, you'll be involved in an academic debate as a final.

•English 111 CC (11-12) *(Year Long)*
This is a dual credit course through Ivy Tech College. Students who take this course will be prepared to write college level research papers. They will also learn a great deal about the essay form. Students will write the following essays over the course of the year: summary/response, rhetorical analysis, annotated bibliography, synthesis essay, argumentation essay, and will compose several expository pieces as well. This course will also help prepare interested students for the AP Language and Composition Exam. Students who receive a passing grade on the AP Exam have the opportunity to earn an additional 3 credit hours.

•English 112 CC (12) *(Year Long)*
This is a dual credit course through Ivy Tech College. Students who take this course will be prepared to write college level literary analysis papers over a variety of topics. Critical study of literature and literary terminology makes up the backbone of this course, as students study the short story, the novella, the novel, drama, and poetry. This course will also help prepare interested students for the AP Literature Exam. Students who receive a passing grade on the AP Exam have the opportunity to earn an additional 3 credit hours.

•Creative Writing (11-12) *(One Sem.)*
Students will learn to compose creative works in a variety of forms: short story, children's books, personal narrative, drama, and poetry. The course is set up in a workshop style to allow for feedback on the creative projects and writing.

•Themes in Literature (11-12) *(One Semester / **credit recovery**)*
Be prepared to constantly read. This class explores the themes of numerous types of literary texts, including novels, poems, films, short stories, and non-fiction. You will write essays and do projects that help you discover and define themes that are prevalent in these texts. Much of the work is done in class, and unwillingness to participate is not tolerated, so be ready to read during class and participate in discussions.

•Composition (11-12) *(One Semester / **credit recovery**)*
You will write almost every day, compiling throughout the semester a portfolio of eight to ten writings from the class. Writing will include a number of different types of academic essays, an autobiography, and a short story (where you get to work on your creative writing skills), among others. We will discuss formatting details required for MLA format, rules and regulations for citations, and everything else you need to write a solid academic essay.

• NEW Technical Business Communication I & II (11-12) *(Sem. or Year Long / for English **credit recovery** OR business credit)*
In this course, students will learn how to effectively communicate in the workplace using oral and written communication. Students will integrate communication in the pursuit of employment by creating documents (formal application letter, resume, and follow- letter), completing application forms, and demonstrating appropriate interviewing techniques. Can count as either an ENGLISH CREDIT or business credit.

Mathematics 6 credits required for graduation / Algebra I, Algebra II, Geometry required

•Advanced Math 125 (11-12) *(Year Long) Pre Rec: Algebra II & Geometry with a **C** ave. or better*
A diverse course including statistics and other topics such as mathematical modeling, problem solving, finance, geometrical concepts, growth patterns, and applications to the physical sciences, social sciences, and economics. This course is appropriately challenging for any student who has completed a formal study of geometry at the secondary level with a grade of C or better and has at least entered his/her junior year of study.

•Advanced Math 136 – College Algebra CC (11-12) *(One Sem.) Pre Rec: Alg. II & Geometry with a **B** or better*
Math 136 is for those students who kept a B average in both algebra 2 and geometry and plan to attend a four year university. We take an in depth look at functions (linear, quadratic, radical and rational), complex numbers, systems of equations, exponential and logarithmic functions. Careers that would require algebra are business, fitness, civil engineering, architecture, medicine, and education.

•Advanced Math 137 – Trigonometry CC (11-12) *(One Sem.) Pre Rec: Math 136*
Math 137 is for those students who kept a B average in both algebra 2 and geometry and plan to attend a four year university. We take an in depth look at right triangle trigonometry, graphs of trigonometric functions, oblique triangles, and trigonometric identities. We, also, look at complex numbers in both the rectangular and polar forms and study conics. Careers that require trigonometry are computer and information systems, industrial production, medical and health services, real estate, actuaries, software engineers, statisticians, surveyors, and engineers.

NOTE: For 2016-2017 ONLY, there will be a special section of Math 137 (Trig.) YEAR LONG for those students who took Math 136 year long in 2015-16.

•Advanced Math 215 – Calculus (12) *(Year Long)* **CC THIS COURSE IS NOT BEING OFFERED IN 2016-17**
M215 is for those students who kept a B+ average in M136 and M137. Calculus is the study of mathematically defined change and accumulation. We will find the slope of a curve and the area between two curves. Velocity and acceleration are two real world examples of calculus in our world. Careers that require calculus are astronautical engineers, pharm-aceutical scientists, safety engineers, statisticians, civil engineers, economists, computer animation, game development.

Science 6 credits required for graduation / Biology I required

•Biology I *(REQUIRED COURSE 9th or 10th grade year / Year Long)*
Biology I is a basic introduction into 5 major concepts of Life Science, from cells to evolution. Basic middle school concepts should be well understood before taking Biology I. Topics will be reinforced with laboratory experience.

•Earth and Space Science (9 -11) *(Year Long) (not open to students with credit in Chem. I)*
In this beginning science class, you will cover the vastness of space, the origins of the universe and then focus more narrowly on Earth and its processes. Middle school concepts will be reinforced and built on.

•Chemistry I (10-12) *(Year Long) Pre Rec: Biology I & Algebra I with **C** average or higher*
In this laboratory-based course, students learn the basic building blocks of matter and how they bond. Students will perform laboratories that strengthen the concepts talked about in class. This class requires a strong knowledge of Algebra. (Pre: Biology I and Algebra I with 75% or higher)

•ICP (Integrated Chemistry-Physics) (10-12) *(Year Long) Pre Rec: Biology I & Algebra I*
This class is a combination of Chemistry and Physics. Students will learn topics from the basic building blocks of matter to the forces of the universe. This is a laboratory-based class that involves plenty of hands-on activities. Minimal math knowledge is required for this class. ICP IS NOT OPEN TO STUDENTS WITH CREDIT IN CHEM. I or PHYSICS.

•NEW Anatomy & Physiology (11-12) *(Year Long) Pre Rec: Bio I & Chem. I with a **B-** average or higher in both*
This class will focus on the organ systems in the human body and prepare the student for health and medical sciences in college. It will review and build on the concepts learned in Biology and Chemistry. This is not a dual credit or AP class, but is still very challenging and intended for students with a strong desire to learn.

•Chemistry II / 101 CC (11-12) *(Year Long) Pre Rec: Chem. I and Algebra II with a **B-** average or higher in both*
Chemistry II will quickly review and elaborate on concepts learned in Chemistry 1. Parts of the course are self-paced and require self discipline. A lot of time is spent performing and analyzing lab work. New concepts such as organic chemistry and equilibrium are introduced. This course requires an Ivy Tech final exam for college credit. (Pre: Chem I and Algebra II with 80% or higher)

•Biology II / 101 CC (11-12) *(Year Long) Pre Rec: Biology I and Chem. I with a **B-** average or higher in both*
Biology II briefly reviews the concepts covered in Biology 1 but goes into deeper detail of these basic concepts. More lab work is performed and analyzed than in Biology 1. Depending on the pace allowed by the students, some anatomy including dissections will be done. This course requires an Ivy Tech final exam for college credit.

•**Physics** (11-12) *(Year Long) Pre Rec: Chem. 1 and Geometry with a B- average or higher in both*
In this laboratory-based course, students learn the basic motions of the universe and the equations that describe them. This is a highly math-based class. Strong math skills are a must. Students will perform experiments and interpret the results of observations.

•**APES (Advanced Placement Environmental Science)** *(Year Long)*(11-12) *Pre Rec: Chem I with a **B-** ave. or higher*
Advanced Placement Environmental Science studies the science behind environmental issues including land use, water pollution, energy consumption, and air pollution. Environmental Science incorporates all of the other sciences including sociology and mathematics. This course is organized by the College Board and requires a relatively quick pace. College credit is based on performance on a College Board exam in May.

Social Studies 6 credits required for graduation / US History required junior year / US Government & Economics required senior year

•**Geography & History of the World I & II** (9-12) *(Year Long)*
Geography and History of the World is designed to enable students to use geographical tools, skills and historical concepts to deepen their understanding of major global themes including the origin and spread of world religions; exploration; conquest, and imperialism; urbanization; and innovations and revolutions.

•**World History & Civilization I & II** (9-12) *(Sem. or Year Long)*
World History and Civilization will focus on events that start with the earliest human beginnings and continue through the great civilizations of the past to modern times. Some of the topics covered in this course will include the history of the Greeks and Romans as well as the ancient civilizations of Asia and Africa. The course will also look at the Middle Ages in Europe and world exploration. Political, social, cultural and economic events will also be looked at for all topics discussed.

•**Sociology** (11-12) *(One Sem.)*
Sociology is the study of human social relationships and institutions. Sociology's subject matter is diverse, ranging from crime to religion, from the family to the state, from the divisions of race and social class to the shared beliefs of a common culture, and from social stability to radical change in whole societies. Highlights include going to court, Sheriff's department and guest speakers. Sociology is a one semester course.

•**NEW Topics in History – 1945+** (10-12) *(One Sem.)*
History is happening all around us! In Topics in History, you will examine historical events from the year 1945 to the present; exploring the uneasy peace that came to the world after WWII, the Cold War, the rise and fall of the Soviet Union, and events in United States History. Come and discover how things that happened in the not so distant past affect your lives every single day! Topics in History is a one semester course.

•**Political Science 101 (US Government CC)** (12) *(One sem.)*
This course is dual credit and offered through IvyTech of Muncie. It fulfills the US Government credit requirement and also lets the student earn credit at IvyTech at the same time. The class is similar to the standard High School Government class offered at WCHS but differs in that there is a 4 to 7 page term paper requirement that is 25% of the final grade, and a final exam, which is long and rigorous, comprises another 25% of the final grade for the class. This class is not for the student seeking an easy "A".

Wellness 2 credits in Phys. Ed. & 1 credit in Health required

•**Elective P.E. – Weight Lifting / Conditioning** (10-12) *(Sem. OR Year Long) Pre Rec: P.E. I&II with a B ave. or higher OR permission of the instructor.*
Elective Physical Education is for those students who have a personal interest in physical fitness. The class has a heavy concentration in weight lifting and conditioning. Students may take as a sem. only or for a full year and can repeat the course more than one year.

• **NEW Elective P.E. – Lifetime Fitness / Recreational Games** (10-12) *(Sem. OR Year Long) Pre Rec: P.E. I&II with a B ave. or higher OR permission of the instructor.*
Lifetime Fitness and Recreational Games is for those students who wish to stay involved in daily physical activity beyond the freshman year. The emphasis is placed on lifetime leisure activities (ex: badminton, ping pong, volleyball, basketball, tennis, etc.) with an opportunity to improve overall fitness using stationary weights. Students may take as a sem. only or for a full year and can repeat the course more than one year.

•Advanced Health (10-12) *(One Sem.) Pre Rec: Health*
Advanced health covers topics of safety & first aid, mental & emotional health, physical activity & fitness, and safe & healthy relationships. For some of the units students are responsible for conducting research and then developing projects or presentations from their collected information.

Business (1 credit in Personal Finance required)

•Preparing for College and Careers (9-10) *(One Sem.) RECOMMENDED for all Freshman*
Students will learn about their personal strengths, the roles they play, why we work, career clusters, entrepreneurship, skills for success, academic planning, career planning, and managing their job search while participating in this class. This class would be beneficial to all students since it prepares them for success in college, career, and life.

• NEW Digital Applications & Responsibility (9-12) *(One Sem.) RECOMMENDED for all Freshman*
Technology is always changing, and its use continues to grow in everyday life at home, work, and school. Having all the latest and greatest technology, however, is useless if you do not know how to use it. Digital Apps and Responsibility helps you develop a strong foundation by starting with important basics such as how to use Microsoft Office products or how to create a strong, professional, and safe social media presence.

•Accounting I (10-12) *(Year Long)*
During the first semester of Accounting I, students study about a service business organized as a proprietorship. The second semester focuses on accounting for a merchandising business organized as a corporation. Students who plan to start their own business or go into the fields of accounting, business, finance, or management would benefit from taking this course.

•Business Math (11-12) *(Year Long / can be taken 1st sem. only)*
Topics covered in this class include: Gross Pay, Net Pay, Banking, Credit Cards, Loans, Owning a Home or a Car, Insurance and Investments, Budgets, Business Costs, Sales and Marketing, Managing People and Inventory, Business Profit and Loss, and International Business. Since business math covers math used in the "real world" it would benefit all students, but especially those desiring to become entrepreneurs, producers, and business leaders. Counts as a MATH CREDIT TOWARDS GRADUATION

• NEW Technical Business Communication I & II (11-12) *(Sem. or Year Long / for business credit OR English **credit recovery**)*
In this course, students will learn how to effectively communicate in the workplace using oral and written communication. Students will integrate communication in the pursuit of employment by creating documents (formal application letter, resume, and follow- letter), completing application forms, and demonstrating appropriate interviewing techniques. Can count as either an ENGLISH CREDIT or business credit.

• NEW Introduction to Entrepreneurship (10-12) *(Year Long)*
This course will provide an overview of what it means to be an entrepreneur. Students will learn the basic concepts of operating and financing a small business. They will explore legal issues faced by entrepreneurs and strategies used to market products and services.

•ICE Related/ICE COOP (12) *(Year Long)*
Topics discussed in the ICE Related class are: Self-Assessment, Exploring Careers, Finding a Job, Joining the Workforce, Professional Development, Life Skills, and Lifelong Learning. This program offers the opportunity for students to attend classes for four periods a day and then participate in paid employment for three periods a day in the field of their choice. They receive a total of three credits for this experience. Application through the guidance office required.

Agriculture

•Introduction to Agriculture (9-12) *(Year Long)*
This class is an introductory course that covers many different areas of Agriculture. There are many hands on activities that deal with real life experience. This is a good class to find out what your interest you including Animals, FFA, Soil, Landscaping, Agribusiness, Sales, Leadership, row crops, Career Development Events, and many more.

•Agribusiness Management CC (10-12) *(Year Long) Pre Rec: Intro to Agriculture*
This class is the next Level of Agribusiness skills that were learned in the Intro to Ag class. Agribusiness covers more specified topics in business including Marketing, Sales, Commodities, Supply and Demand, and many more. This course includes a lot of hands on experience where we will be doing many real life experiences in the Agribusiness Industry.

•Animal Science CC (10-12) *(Year Long) Pre Rec: Intro to Agriculture*
This class is the next Level of Animal Science skills that were learned in the Intro to Ag class. Animal Science covers more specified topics dealing with animals including Animal Behavior, Nutrition, Reproduction, Animal Systems, and many more. This course includes hands on experience where we will be doing real life experiences in the Animal Industry.

•Plant and Soil Science CC (10-12) *(Year Long) Pre Rec: Intro to Agriculture*
This class is the next Level of Plant and Soil Science skills that were learned in the Intro to Ag class. Plant and Soil Science covers more specified topics dealing with Plants and Soils including Texturing, layers of Soil, Plant growth, and talk about different row crops, farming practices, and many more. This course includes a lot of hands on experience where we will be doing many real life experiences in the Farming Industry.

•Landscape Management CC (10-12) *(Year Long) Pre Rec: Intro to Agriculture*
This class is the next Level of Landscape Management skills that were learned in the Intro to Ag class. Agribusiness covers more specified topics in Different types of Plants., Landscape Symbols, Landscape Pro, Laying out and Estimating for a landscape Job, and many more. This course includes a lot of hands on experience where we will be doing many real life experiences in the Landscaping Industry.

•Agriculture Power, Structure, and Technology CC (10-12) *(Year Long) Pre Rec: Intro to Agriculture*
This class is the next Level of Power systems that were learned in the Intro to Ag class. Agriculture power, Structure, and technology covers more specified topics in Agriculture Mechanics including small engines, welding, Metal Fabrication, Concrete, brick laying, and many more. This course includes a lot of hands on experience where we will be doing many real life experiences in the Agriculture Industry.

•Supervised Agriculture Experience (9-12) **(Summer - SAE)**
This is a summer course that is based on real life work experiences. This class is similar to ICE where a teacher will come and observe you working. You will need to record your hours that you have worked and some of the new experiences and skills that you have experienced in your work place.

Family and Consumer Science

•Interpersonal Relations (9-12) *(One Sem.)*
This semester course explores the need for positive and productive relationships in ones' career, community, acquaintances and family settings. Major topics include: communication skills, conflict resolution, decision-making skills, leadership concepts, self-esteem, values, setting goals and priorities.

•Consumer Economics (9-12) *(One Sem.)*
This semester course is designed to provide basic understanding of consumerism skills. Students will address major topics as: rights and responsibilities of consumers, identity theft, influences of advertising on purchasing, banking, financial needs of consumers, insurance, environmental concerns and consumers, and decision-making skills.
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•Adult Roles and Responsibilities (10-12) *(One Sem.)*
This semester course builds on knowledge and skills that will assist students as they complete high school and prepare for their independent adult life. Topics include but not limited to : dating, marriage, public laws, community resources, family responsibilities, work, children, death, financial management and many other topics pertaining to adult life.

•Housing and Interiors (10-12) *(One Sem.)*
This semester course explores the vase world of the housing needs of humans. Topics covered will include: housing needs, history and styles of housing, basic construction of housing, interior styles, financial concerns of housing, career exploration, floor plans, and interior designing. Students will have opportunity for hands-on housing and interiors projects.
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•Child Development (10-12) *(One Sem.)*
This semester course addresses issues of child development from prenatal development to ages three. Topics include: family dynamics, parenting skills, prenatal concerns and development, community resources, pregnancy, family options, delivery and labor, and infant care.

•Advanced Child Development (10-12) *(One Sem.) Pre Rec: Child Development*
This semester course is a continuation of basic child development concepts from age 4 to age of 8. Continuation in child health and wellness, parenting best practices, special conditions affecting children, career exploration, early childhood education, nutrition and childhood opportunities.
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•Fashion & Textiles (10-12) *(One Sem.)*
This semester course focuses on the world of textiles in the environment. This includes information regarding history of fabrics, textile usage in the home, textile production, basic construction skills with textiles, and sewing machine techniques. This is a project-based course.

•Advanced Fashion & Textiles (10-12) *(One Sem.) Pre Rec: Textiles*
This is a continuation of the Fashion & Textiles course. Topics include: advanced sewing skills, textile research, textile care, careers in textiles, textiles in crafts, and basic fashion design skills. This is a project-based course.
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•Nutrition and Wellness (11-12) *(One Sem.)*
This semester course is an introductory course to the basic concepts of food preparation and nutritional awareness. Major topics include: food safety, basic preparation skills, technology and food production, careers in the food industry, nutritional information, eating patterns and food decision-making.

•Advanced Nutrition and Wellness (11-12) *(One Sem.) Pre Rec: Nutrition & Wellness*
This semester course is a continuation of the basic nutrition and food preparation techniques understanding. Major topics include: nutritional needs throughout the lifecycle, special diets, influences on nutritional/food choices, advanced food preparation skills, meal planning and presentation.
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Journalism

•Student Publications 1 / Introduction to Student Publications (9-12) *(One Sem.)*
In Introduction to Student Publications, you will learn and practice the basics of becoming a high school journalist. You will learn about photography, interviewing, news writing, and graphic design; and then apply that knowledge by actually taking pictures, designing layouts, and writing some news stories. Have no idea how to do any of that? That's okay!

•Student Publications 2 / Digital Media (9-12) *Pre Rec: Student Publications 1 (One Sem.)*
Digital Media is an exciting course that allows students to release some of their inner creativity and express themselves to others. This is a project-based class where you will work to create various final products including Photo stories, videos, info-graphics, and webpages. Don't worry, its not as hard as it sounds, and it's a whole lot of fun!

•Student Publications 3 & 4 / Yearbook (10-12) *Pre Rec: Student Pub. 1 & Application Required (Year Long)*
In yearbook, you will actually create the school's yearbook. Students will put together the 144-page book that will recount the school year's exciting events using a variety of skills including, graphic design, photography and writing skills. Need to brush up on your skills? Great! In yearbook, you will have the opportunity to grow and get better through practice, additional training, and workshops at Ball State and Indiana University.

Music / Theatre

•Advanced Band (9-12) *(Year Long)*
Advanced band is the main band class at WCHS. Students need to have had previous experience at the middle school level (7^{th} / 8^{th} grade band). Students will participate in all aspects of the band program including concert band, pep band, and marching band. A variety of performances will include Fall, Christmas and Spring concerts, Veterans Day convocation, and Extravaganza (every-other-year variety show). The marching band performs at home football games in the fall and the pep band performs at home boys' basketball games during the winter. Students are encouraged (but not required) to participate in solo ensemble.

•Jazz Ensemble (9-12) (Pre-req.: permission of director) *(Year Long)*
The jazz ensemble focuses on the performance of jazz music. Instrumentation is limited to around 20 players including saxophones, trumpets, trombones, and rhythm section (drums/percussion, bass, guitar, piano). Performances include fall, Christmas, and Spring concerts, the annual Dinner Dance in the spring, a jazz festival (Feb.), and the Extravaganza show (every other year). The jazz ensemble also performs at select home girls' basketball games.

•Advanced Choir (9-12) (Pre-req.: permission of director) *(Year Long)*
Advanced Choir sings a wide variety of music in 4 to 8 part harmony. This ensemble participates in several after school activities including concerts, contests, festivals, and community events. Entrance is by audition only.

•Intermediate Choir (9-12) *(Year Long)*
Intermediate Choir sings a wide variety of music in 3 to 6 part harmony. This ensemble typically participates in 4-5 evening concerts. Students should have participated in middle school choir OR receive permission from the instructor before participating in this ensemble.

•Theatre Arts (9-12) *(One Sem.)*
Theatre Arts is a class where students can learn about the various aspects of theatre: acting, directing, costumes, sound, lights, set design, etc. Students should be willing to talk and act in front of other students.

•Musical Theatre (9-12) *(One Sem.)*
Musical Theatre is a class where students can learn about the various aspects of theatre: acting, directing, costumes, sound, lights, set design, etc. with an emphasis on musicals. Previous participation in a musical ensemble or piano class is encouraged, but not required. Students will be expected to sing in a small group or alone.

•Piano & Electronic Keyboarding (9-12) *(One Sem.)*
Piano Keyboarding is a class where students can develop a basic skill on piano. They will also learn some basic music theory. No experience is required. The nature of this course allows for successive semesters of instruction at an advanced level.

•Music Theory (10-12) (Pre-req.: permission of band or choir director) *(One Sem.)*
Music theory is the study of the construction of music. It is intended for serious music students that may be planning to study music in college. Previous musical experience is a must either through participation in band, chorus, piano study, guitar study, etc. Students learn to read music in both clefs, intervals, chords, chord progression, 4-part analysis, terminology, rhythmic units and more. Ear training (developing listening skills) is also included.

Technology

•Construction Systems (9-12) *(One Sem.)*
Students will learn how to safely work with hand, portable power, and power equipment while having the opportunity to work in the woods lab. We cover how to measure, figure board foot, calculate cost, check squareness, and layout pieces from a print.

•Transportation Systems (9-12) *(One Sem.)*
Students will learn about the different forms and modes of transportation (land, water, air, space, and Intermodal). Students will research, design, and fabricate vehicles to compete against their classmates while learning about each form and mode of transportation.
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•Introduction to Engineering Design (9-12) *(Year Long)*
Students will have the opportunity to use AutoCAD and Inventor software as a drawing tool. Students will learn how to do mechanical drawings in 2D, multi-view with Isometric, and 3D models. Students will explore the differences between the "Design Process" and "Reverse Engineering Process" while having the opportunity to utilize one of our 3D printers. Finally, students will experience architecture drawing by designing floor plans, interior and exterior evaluation views, and dimensioning.

•**Computers in Design and Production** (10-12) *Pre-Rec: Intro to Engineering (Year Long)*
Students will have the opportunity to enhance their 3D modeling skills by utilizing AutoCAD and Inventor software. Each student will have the ability to learn and operate one of our 3D printers. Students will also design, fabricate, and program Vex Robots while learning about AC/DC Electrical and Applied Electronics.

•**Intro to Advanced Manufacturing CC** (10-12) *(Year Long)*
Students will learn the Manufacturing process and how Logistics plays a major role in producing every product manufactured. The class is split between on-line learning and lab time. While in the lab, students will experience CNC machining, manual machining, and learn how to use Inventor (drawing software) to produce an item on our 3D printers.

•**Advanced Manufacturing 101 CC** (11-12) *Pre Rec: Intro to Manufacturing and Logistics (Year Long)*
Students will learn about Safety and Quality in the manufacturing environment. They will have the opportunity to take a National Certification Exam for each Safety and Quality through MSSC (Manufacturing Standard Skill Council). Class requires computer based learning as well as lab time. In the lab, students will learn about CNC mills, CNC lathes, bridgeports, grinders, and engine lathes.

•**Advanced Manufacturing 102 CC** (11 & 12) *Pre Rec: Intro to Manufacturing and Logistics 101 (Year Long)*
Students will learn about Manufacturing and Maintenance in the manufacturing environment. They will have the opportunity to take a National Certification Exam for each Manufacturing and Maintenance through MSSC (Manufacturing Standard Skill Council). Class requires computer based learning as well as lab time. In the lab, students will learn about CNC mills, CNC lathes, Applied Electrical circuits, Mechanical principles, Robotics, programming, and utilizing our 3D printers.

•**Construction Trades** (11&12 requires 1st & 2nd periods) *(Year Long) Pre Rec: Construction Systems with a C or better*
This class is for students who have an interest in the construction trades, sales, construction management, and safety supervisors. We will learn about electrical, framing, plumbing, concrete, masonry, building materials, and have the opportunity to earn an OSHA 10 hr. card. The class has about 50% classroom/book work and 50% hands on learning. This program is a nationally accredited standardized program that is taught to adults entering an apprenticeship program. Upon completing this class with a 70% or higher on each chapter, students are entered into a national database that employers can access for employment.

Visual Arts

•**Intro to 2D Art** (9 – 12) *(1st Sem.)*
Students create two-dimensional artworks (drawings & paintings) in several different media (pencil, colored pencil, oil pastels, paint, etc.). They also learn about the history of past and contemporary artists and discuss the artists' use of the elements of art (line, shape, form, value, color, texture, & space) and how they can apply these to their own work.

•**Intro to 3D Art** (9 – 12) *(2nd Sem.)*
Students create three-dimensional artworks (pottery and sculpture) in several different media (paper, clay, wire, paper mache, etc.). They also learn about the history of past and contemporary artists and discuss the artists' use of the principles of design (unity, variety, balance, emphasis, rhythm, movement, pattern, proportion) and how they can apply these to their own work.

•**Drawing I & II** (10 – 12) (Pre-req.: Intro to 2D) *(Year Long)*
Students expand upon knowledge gained from "Intro to 2D Art" by creating drawings using several different media (pencil, colored pencil, oil & chalk pastels, charcoal, pen and ink, printmaking, & mixed media). They will continue to focus on art history and the elements and principles of design.

•**Painting I & II** (10 – 12) (Pre-req.: Intro to 2D) *(Year Long)*
Students expand upon knowledge gained from "Intro to 2D Art" by creating paintings in different media. First nine weeks is watercolor, second nine weeks is acrylic, third nine weeks is oil, and fourth nine weeks is the student's choice.

•**Ceramics** (10 – 12) (Pre-req.: Intro to 3D) *(1st Sem.)*
Students expand upon knowledge gained in "Intro to 3D Art" by creating clay pottery. The first mine weeks focuses on hand-building with clay while the second nine weeks focuses on throwing clay on the potter's wheel. They will continue to focus on art history and the elements and principles of design.

•**Sculpture** (10 – 12) (Pre-req.: Intro to 3D) *(2nd Sem.)*
Students expand upon knowledge gained in "Intro to 3D Art" by creating sculptures using several different media (paper, clay, cardboard, wire, plaster, found objects, etc. They will continue to focus on art history and the elements and principles of design.

•**Advanced 2D Art** (11 – 12) (Pre-req.: Intro to 2D, Drawing I & II, Painting I & II) *(Year Long)*
Students will choose a semester theme and create drawings and paintings that represent this theme. Emphasis is on portfolio development at the college level. Students who take this course should be self-starters who are willing to work independently and have excellent time management.

•**Advanced 3D Art** (11 – 12) (Pre-req.: Intro to 3D, Ceramics, Sculpture) *(Year Long)*
Students will choose a semester theme and create pottery and sculptures that represent this theme. Emphasis is on portfolio development at the college level. Students who take this course should be self-starters who are willing to work independently and have excellent time management.

World Languages (6 – 8 credits required for Academic Honors diploma)

•**Spanish I** (9 - 12) *(Year Long)*
Students will be introduced to general Spanish vocabulary as well as basic grammar concepts. Speaking in the target language will be introduced and practiced. Knowledge of the culture of Spanish speaking countries will also be a part of the curriculum.

•**Spanish II** (10- 12) *(Year Long) Pre Rec: Spanish I with a C average or higher*
Students will continue to build vocabulary in target language and expand their knowledge of grammar concepts. There will be a greater focus on speaking informally as well as applying Spanish to everyday life.

•**Spanish III – CC** (11-12) *(Year Long) Pre Rec: Spanish II with a C+ average or higher*
Due to the nature of the course, students will be expected to have a good foundation in the grammar concepts of the target language. The focus of this course will be to increase students ability to speak, read, and write in the target language.

•**Spanish IV – CC** (12) *(Year Long) Pre Rec: Spanish III with a B- average or higher*
The final year of Spanish will be focused on the exploration of the Spanish speaking culture in an authentic manner. Students will be expected to speak Spanish in the class as well as work to master reading and writing in the target language.

•**German I** (9 - 12) *(Year Long)*
Students will be introduced to general German vocabulary as well as basic grammar concepts. Speaking in the target language will be introduced and practiced. Knowledge of the culture and geography of German speaking countries will also be a part of the curriculum.

•**German II** (10 - 12) *(Year Long) Pre Rec: German I with a C average or higher*
Students will continue to build vocabulary in target language and expand their knowledge of grammar concepts. There will be a greater focus on speaking informally as well as applying German in everyday situations..

•**German III** (11-12) *(Year Long) Pre Rec: German II with a C+ average or higher*
Due to the nature of the course, students will be expected to have a good foundation in the grammar concepts of the target language. The focus of this course will be to increase students ability to speak, read, and write in German.

•**German IV** (12) *(Year Long) Pre Rec: German III with a B- average or higher*
The culminating year of German will be focused on the exploration of German speaking culture in an authentic manner. Students will be expected to speak German in class as well as work to master reading and writing in it..