

## AGRICULTURE DEPARTMENT

### 5002 Agribusiness Management

AHD Core 40 Elective

Level 11, 12

Term: 1 Trimester (1 credit)

This one semester class emphasizes the management aspect of running a business. Success in a business requires leadership and communication skills. These include important personal skills dealing with how to get along with individuals and solve problems in the business. Areas covered are: Developing Personal Leadership Qualities, Developing Communication Skills, Relating to Other People, Nurturing Group Leadership, Opportunities in Organizations, Employability and Personal Skills. Offered on alternate years with Natural Resource Management.

### 50881 Agriculture Mechanization I-Mach. & Equipment

AHD Core 40 Elective

Level 11, 12

Term: 1 Trimester (1 credit)

This course is designed to prepare persons for occupations of agriculture machinery set-up and deliveryman, mechanics helper, parts man, mechanics, service supervisor, and farmers. Unit of instruction will include set-up, adjustment, maintenance, and repair of agriculture implements. The course will also include laboratory periods devoted to driving and handling equipment safely. Students will also spend time understanding the operation of the internal combustion engine.

### 50882 Agriculture Mechanization Welding

AHD Core 40 Elective

Level 11, 12

Term: 1 Trimester (1 credit)

This is a welding course will cover both arc and oxy-acetylene welding and cutting along with experience in general metal work. Students enrolling will be required to weld in different positions and different types of weld joints. Soldering, drilling, taping, tool sharpening and fitting will be completed. Five weeks will be devoted to metal projects. Offered each year.

### 5008 Animal Science

AHD Core 40 Elective

Level 11, 12

Term: 1 Trimester (1 credit)

Animal Science is a course that provides students with an overall view of the field of animal science. All areas, which the students study, can be applied to large and small animals. Topics to be addressed include: anatomy, physiology, genetics, reproduction, nutrition, aquaculture, careers in animal science, common diseases and parasites, social and political issues related to the industry, and management practices for the care and maintenance of animals. Offered on alternate years with Food Science in odd years.

### 5102 Food Science

AHD Core 40 Elective

Level 11, 12

Term: 1 Trimester (1 credit)

Food Science is a course that provides students with an overview of food science and its importance. Introduction to principles of food processing, food chemistry, nutrition, food packaging, food commodities, food regulations, and careers in the food science industry helping students understand the role which food science plays in the securing of a safe, nutritious, and adequate food supply. Offered on alternate years with Animal Science in even years.

### 50561/50562 Fundamental Agricultural Science

AHD Core 40 Elective

Level 9

Term: 2 Trimesters (1 credit each trimester)

Fundamentals of Agricultural Science is a course which is highly recommended as a pre-requisite and foundation for all other agricultural classes. The nature of this course is to provide students with an introduction to the fundamentals of

agricultural science and business. Topics to be covered include: animal science, plant and soil science, food science, horticultural science, farm and agribusiness management, landscape management, natural resources management, agricultural mechanization, and supervised agricultural experience. This class is also the foundation class for FFA. First year FFA members.

**51321 Horticulture Science I**

**AHD Core 40 Elective**

Level 10, 11, 12

Term: 1 Trimester (1 credit)

This course will cover the principles of greenhouse management. Structure work, temperature and water control, insect control, and plant disease control will be covered in the course. Principles and procedures of landscape management will also be discussed.

**51322 Horticulture Science II**

**AHD Core 40 Elective**

Level 10, 11, 12

Term: 1 Trimester (1 credit)

Vegetable production and growth will be discussed along with seedbed preparation, planting and maturity dates, controlling weeds and pests, fertilization, methods of propagation, harvest and marketing techniques. The greenhouse and living arts area is used as a laboratory area of instruction.

**5180 Natural Resource Management**

**AHD Core 40 Elective**

Level 10, 11, 12

Term: 1 Trimester (1 credit each trimester)

This course is a trimester long program that provides students with a background in natural resource management. Students are introduced to career opportunities in natural resource management and related industries, the history of the forest industry and forest policy, the importance and uses of forest plants, factors that influence the development of forests, forest improvement and best management practices, proper care and use of forest tools and equipment, effects of management practices on the environment, soil conservation practices, water and its importance to natural resource management, hazardous waste management, native wildlife, waterfowl, fish, wetlands and pond management, surveying and map use, management of recreational areas, outdoor safety, and weather. "Hands-on" learning activities encourage students to investigate areas of environmental concern including: identification and management of ecosystems, management of waste, chemicals and the environment soil conservation, land uses, regulations, and ordinances, water quality, and air quality. Offered alternate years with Agribusiness Management.

**51701/51702 Plant and Soil Science**

**AHD Core 40 Elective**

Level 10

Term: 2 Trimesters (1 credit each trimester)

Plant and Soil Science is a yearlong course. Students participate in a variety of activities including some laboratory work. Topics covered include: taxonomy of plants, various plant propagation, photosynthesis and respiration, diseases and pests of plants, biotechnology, the basic components and types of soil, calculation of fertilizer application, rates and procedures for application, soil tillage and conservation, irrigation and drainage, land measurement, cropping systems, harvesting, and career opportunities in the field of plant and soil science. Second year FFA members.

## BUSINESS EDUCATION DEPARTMENT

### 4524 Accounting

AHD Core 40 Elective

Level 11, 12

Term: 1 Trimesters (1 credit)

Accounting introduces the language of business using Generally Accepted Accounting Principles (GAAP) and procedures for proprietorships and partnerships using double-entry accounting. Emphasis is placed on accounting principles as they relate to both manual and automated financial systems. This course involves understanding, analyzing, and recording business transactions and preparing, analyzing, and interpreting financial reports as a basis for decision making.

### 5394 Preparing for College & Careers

AHD Core 40 Elective

Level 9

Term: 1 Trimester (1 credit)

This class addresses the knowledge, skills, and behaviors all students need to be prepared for success in college, career, and life. The focus of the course is the impact of today's choices on tomorrow's possibilities. Topics to be addressed include twenty-first century life and career skills; higher order thinking, communication. Leadership, and management processes; exploration of personal aptitude, interests, values, and goals; examining multiple life roles and responsibilities as individuals and family members; planning and building employability skills; transferring school skills to life and work; and managing personal resources. This course includes reviewing the 16 national career clusters and Indiana's College and Career Pathways, in-depth investigation of one or more pathways, reviewing graduation plans, developing career plans, and developing personal and career portfolios. Students may qualify to earn college credit through Ivy Tech, which is transferable to many colleges and will count toward flex credits needed for an Academic Honors Diploma.

### 4560 Business Law & Ethics

AHD Core 40 Elective

Level 11, 12

Term: 1 Trimester (1 credit)

Business Law & Ethics provides an overview of the legal system in the business setting. Topics covered include: basics of the judicial system, contract, personal, employment and property law. Application of legal principles and ethical decision-making techniques are presented through problem-solving methods and situation analyses. Students may qualify to earn college credit through Ivy Tech, which is transferable to many colleges and will count toward flex credits needed for an Academic Honors Diploma.

### 5966 Entrepreneurship

AHD Core 40 Elective

Level 12

Term: 1 Trimester (1 credit)

Introduces entrepreneurship, and develops skills and tools critical for starting and succeeding in a new venture. The entrepreneurial process of opportunity recognition, innovation, value proposition, competitive advantage, venture concept, feasibility analysis, and "go to" market strategies will be explored through mini case studies of successful and unsuccessful entrepreneurial start-ups. Additionally, topics of government and legal restrictions, intellectual forecasting and business plan development will be presented through extensive use of word processing, spreadsheet and presentation software. Students will develop a written business plan for a business of their choice. Students may qualify to earn college credit through Ivy Tech, which is transferable to many colleges and will count toward flex credits needed for an Academic Honors Diploma.

**Pre-requisites: Principles of Business Management or Principles of Marketing.**

**4528 Information Communications and Technology**

**AHD Core 40 Elective**

Level 10, 11, 12

Term: 1 Trimester (1 credit)

Introduces the physical components and operation of microcomputers. Focuses on computer literacy and provides hands-on training in four areas of microcomputer application software: word processing, electronic spreadsheets, database management and presentation software. Use of professional business integrated applications package is emphasized. Microsoft Word is used and students are able to seek Microsoft Office Certification as well as Dual Credit through Ivy Tech.

**4540 Personal Financial Responsibility**

**AHD Core 40 Elective**

Level 9, 10, 11, 12

Term: 1 Trimester (1 credit)

Personal Financial Responsibility addresses the identification and management of personal financial resources to meet the financial needs and wants of individuals and families, considering a broad range of economic, social, cultural, technological, environmental, and maintenance factors. This course helps students build skills in financial responsibility and decision making; analyze personal standards, needs, wants, and goals; identify sources of income, saving and investing; understand banking, budgeting, record-keeping and managing risk, insurance and credit card debt. Students may qualify to earn college credit through Ivy Tech, which is transferable to many colleges and will count toward flex credits needed for an Academic Honors Diploma.

**5914 Principles of Marketing**

**AHD Core 40 Elective**

Level 11, 12

Term: 1 Trimester (1 credit)

Marketing Foundations is a business course that provides a basic introduction to the scope and importance of marketing in the global economy. Emphasis is placed on oral and written communications, mathematical applications, problem solving and critical thinking skills as they relate to advertising/promotion/selling, distribution, financing, marketing information management, pricing and product/service management. Students may qualify to earn college credit through Ivy Tech, which is transferable to many colleges and will count toward flex credits needed for an Academic Honors Diploma.

**FINE ARTS DEPARTMENT**

**4040 Ceramics**

**AHD Core 40 Elective**

Level 11, 12

Term: 1 Trimester (1 credit)

Clay provides a tactile, three-dimensional route for problem solving. The study of ceramics provides a unique window for perceiving history, art appreciation, and experiencing productivity, while also appreciating the genuine appeal of creating with earth, water, and fire. In Ceramics, students will encounter techniques fundamental to forming ceramic objects, including coil building, slab construction, modeling, and pinch techniques. They will also become acquainted with techniques for effecting the surface, including carving, burnishing, and the use of slips and glazes. Care and maintenance of tools and materials will be taught, as well as safety and health considerations relevant to ceramic materials and processes. Ceramic history and art criticism will be introduced as it relates to course content. Students will also have the opportunity to express themselves creatively while learning the fundamental aesthetics of the art making process. This class is offered in odd years

**4060 Drawing****AHD Core 40 Elective**

Level 11, 12

Term: 1 Trimester (1 credit)

Drawing is the basic language of art. Artists never stop drawing no matter how skilled they become. Without the ability to draw well, artists are limited creatively. In drawing, students will study the history of drawing, and compare and contrast materials, subject matter, and the role of artists. Projects in drawing will focus on the principles and elements of art to develop basic art skills. Students will also rely on critiques and observations by peers to assist in the production process, facilitating group collaboration and a positive learning environment. The process of creativity, critical thinking, evaluation, and communication are inertial parts of life and art. The ability to draw well can be taught and students can learn to incorporate art into their everyday lives. At the end of the course, students will assemble a collection of their work to create a portfolio to take with them. This class is offered in odd years.

**4064 Painting****AHD Core 40 Elective**

Level 11, 12

Term: 1 Trimester (1 credit)

Painting is a natural form of communication that allows us to record what we see, feel, and imagine. The development of our culture and cultures around the world are recorded through paintings on walls, paper, wood, and canvas. In painting class students will learn about the rich history of painting. They will also learn the technical aspects of using paint, such as how to use various types of paint and materials. Students will explore and develop confidence, sophistication in subject matter selection, and the problem-solving process involved in executing a painting. On a regular basis the class will conduct critiques that involve a logical and positive process of comparing, evaluating, contrasting, and interpreting paintings. At the end of the course, students will assemble a collection of their work to create a portfolio to take with them. This class is offered in even years.

**4044 Sculpture****AHD Core 40 Elective**

Level 11, 12

Term: 1 Trimester (1 credit)

Sculpture is a "hands on" media that challenges the artist to thoughtfully use art elements and design principles to give ideas and emotions visual form. Using a variety of materials students will solve challenges three-dimensionally. Students will learn to deal with the concepts of form, space, size, mass, and shape. Students will engage in critiques and learn to draw inspiration and influences from famous sculptors throughout art history. From all of these activities students will be able to analyze their own artwork and others to identify strengths, weaknesses, and areas of improvement. This class is offered in even years.

**4086 Visual Communication****AHD Core 40 Elective**

Level 11, 12

Term: 1 Trimester (1 credit)

Visual communication artists such as graphic designers, commercial artists, illustrators, and outdoor advertisers create a vast range of visual communication including logos, advertising packages, signs, screen printing, etc. This is a fast pace profession with a world of possible opportunities. Students will participate in lecture, group discussions, student presentation, design critique, and hands-on design work. Students will have the opportunity to express themselves through a positive learning environment with their designs and classroom discussion. Students will be presented with a problem and they will be asked to solve it using their problem solving skills they will learn throughout this course. Layout design, color theory, and typography will be used to create designs. At the end of the course, students will assemble a collection of their work to create a portfolio to take with them.

**Pre-requisite: Drawing or Painting.**

## MUSIC DEPARTMENT

### 4188 Advanced Chorus II

AHD Core 40 Elective

Level 10, 11, 12

Term: 3 Trimesters (1 credit each trimester)

Students who have completed Chorus I for 2 trimesters and are grade level 10, 11, or 12 and are approved by the choral director, are to sign up for this level of choir. Students are required to perform at Ft. Vallonia Days, Fall Show, Christmas Show, Winter Show, Spring Show, and Graduation. Students can be enrolled for all 3 trimesters. Advanced choral skills are required with advanced music reading skills and advanced sight reading skills. They will sing choral works in 3-4 parts. Piano class in the intermediate level is an extension of the curriculum. All choir members wear choir attire owned by the choral department. Girls in black sequin dresses and dance shoes. Boys in black vests and ties. Boys must provide a white dress shirt and black dress pants.

### 4182 Chorus I

AHD Core 40 Elective

Level 9, 10

Term: 2 Trimesters (1 credit each trimester)

Students who have completed 8<sup>th</sup> grade choir will be considered for Choir I. Students who have not participated in 8<sup>th</sup> grade choir must meet with the choir teacher for an audition and a music assessment. Choir members are required to perform at Ft. Vallonia Days, Fall Show, Christmas Show, and the Winter Show. Students are enrolled for 2 trimesters of choir, 1 and 2. Chorus I will study music for the beginning high school choir level. Students have the opportunity to experience live performances outside the school day that support the extension of learning in the classroom. Basic choral skills, basic music reading and sight-reading skills are required. Class piano is a basic extension of the curriculum and will be utilized daily in the classroom. Students will be required to sing in 3-part music selections for Chorus I. **ADDITIONAL COMMENTS FOR ALL CHOIRS:** Both choirs require a choir costume that is owned by the choral department. All students enrolled in Chorus will take piano class. You will learn basic piano skills, music fundamentals, and sight-reading and basic music theory. Every student progresses at their own pace. **MONEYMAKING PROJECTS VARY FROM YEAR TO YEAR. MEMBERS ARE EXPECTED TO WORK ON THE VARIOUS PROJECTS DURING THE SCHOOL YEAR. TO THIS DATE CONCESSIONS AT THE MIDDLE SCHOOL FOOTBALL AND THE CHOIR FUNDRAISER. STUDENTS ALSO HAVE THE OPPORTUNITY TO ATTEND THE SHOW CHOIR MUSIC CAMP IN THE SUMMER. ALL STUDENTS HAVE THE OPPORTUNITY TO PARTICIPATE IN THE SPRING MUSICAL IN MARCH.**

### 4170 Concert Band

AHD Core 40 Elective

Level 9, 10, 11, 12

Term: 3 Trimesters (1 credit each trimester)

**STUDENTS MUST BE ENROLLED ALL 3 TRIMESTERS EACH SCHOOL YEAR (STUDENTS MUST HAVE SPECIAL PERMISSION FROM THE PRINCIPAL TO TAKE LESS THAN 3 TRIMESTERS)**

Concert band members will participate in ensemble and solo activities designed to develop elements of musicianship including, but not limited to: 1. tone 2. technical skills 3. intonation 4. music reading skills 5. listening skills 6. analyzing music and 7. studying historically significant styles of literature 8. musical terminology. Members of this ensemble will be required to perform at all of the Band of Braves schedule events to include, but not be limited to: Two weeks of band camp (summer) All home regular season and playoff football games, 10 boys and 7 girls varsity basketball ball games, 4 to 6 parades, 3 to 4 concerts, and BCHS Commencement Ceremony.

**4244 Technical Theatre****AHD Core 40 Elective**

Level 10, 11, 12

Term: 1 Trimester (1 Credit)

Technical theatre instruction will introduce what is theatre, improvisation, pantomime and mime, voice and diction, beginning acting, theatre etiquette, structure of drama, varieties of drama, history of drama, and beginning acting monologues and scenes. Students are provided with the opportunity to: (1)develop stage craft skills; (2)learn various techniques in scenery, lighting, sound, properties, costumes and make-up; (3)practice theatre safety; (4)learn effective stage management, business plans, and promotional techniques. Students are made aware of career opportunities in technical theatre. They also continue to analyze and evaluate scripts and live theatre performances so they can learn to determine appropriate technical requirements for a variety of technical works. This class is offered in even years.

**4248 Theatre Production****AHD Core 40 Elective**

Level 10, 11, 12

Term: 1 Trimester (1 credit)

Theatre production will include a laboratory for the exploration, development, and synthesis of all elements of the theatre. These include producing a play, producing a musical, stage settings, lighting and sound, costuming, make-up, theatre and other media, theatre and other art forms, intermediate monologues and scenes, short one and two act plays, and producing and presenting a 1 act play. Practical hands on experiences in acting, directing and stagecraft, will be provided for the students through the preparation of a play. This will supplement the theatre arts and technical theatre courses, which concentrate on theories, information and techniques by providing for the integration and implementation of ideas and skills. Theatre courses which concentrate on theories, information and techniques by providing for the integration and implementation of ideas and skills. This class is offered in odd years.

**FAMILY AND CONSUMER SCIENCE DEPARTMENT****5438 Intro to Culinary Arts and Hospitality****AHD Core 40 Elective**

Level 11, 12

Term: 1 Trimester (1 credit)

An exploratory course for students interested in the preparation of food. Students will become more acquainted with the kitchen and all its parts. Topics include basic culinary skills in the food service industry, safety and sanitation, nutrition, basic hospitality skills, customer relations and career investigation. Culinary math and measuring techniques will also be a focus in this course. Students will learn basic preparation techniques and recommendations for soups, stocks, sauces, appetizers, sandwiches, and breakfast.

**54401 Culinary Arts and Hospitality 1****AHD Core 40 Elective**

Level 11, 12

Term: 1 Trimester (1 credit)

This course prepares students for occupations and higher education programs of study related to the entire spectrum of careers in the hospitality industry. This course builds on topics from the Introduction to Culinary Arts and Hospitality course. Major topics include: introduction to the hospitality industry; food safety and personal hygiene; sanitation and safety, regulations, procedures and emergencies; basic culinary skills; culinary math; and food preparation techniques and applications. Instruction and laboratory experiences will allow students to apply principles of purchasing, storage, preparation, and service of food and food products; apply basic principles of sanitation and safety in order to maintain safe and healthy food service and hospitality environments. Students will participate in catering-like experiences by planning, marketing, selling, preparing, and delivering food items prepared in lab.

**5362 Child Development****AHD Core 40 Elective**

Level 10 &amp; 11

Term: 1 Trimester (1 credit)

To help students understand the challenge and responsibility of guiding the physical, social, emotional and intellectual development of children. The class includes studies of prenatal, infant, preschool, and elementary school stages in a child's life. Students will also evaluate the family and how it plays a role in the Development of children. The focus is on research based nurturing and parenting practices and skills that support positive development of children.

**5350 Housing & Interior****AHD Core 40 Elective**

Level 11, 12

Term: 1 Trimester (1 credit)

Instruction includes information related to selection and planning of possible living environments in relation to housing needs of individuals and families with economic, social, technological, environmental, and artistic factors being considered. Class projects usually include making personal decisions on a house the student would like to have in the future. The project includes understanding floor plans and basic interior decorating.

**5364 Interpersonal Relationships****AHD Core 40 Elective**

Level 9, 10

Term: 1 Trimester (1 credit)

An analysis of individual behavior in contemporary society with emphasis on understanding one's own needs, values, and attitudes toward self and others, in order to foster personal development and getting along with others. Students will learn effective ways of communication and identify leadership styles. Focus will also be put on relationships with friends, family, and co-workers. This will include working in groups on projects.

**5342 Nutrition and Wellness****AHD Core 40 Elective**

Level 9, 10

Term: 1 Trimester (1 credit)

Instruction for this course includes basic nutrition and physical activity recommendations. This course will review food terminology, MyPlate, nutrition guidelines, and healthful choices. Topics include extensive study of major nutrients, nutritional standards across the lifespan, and influences on nutrition/food choices, technological and scientific influences, and career exploration in this field. Research will also be done over the different regions and foods that originated and are popular with each one.

**5380 Fashion/Textiles Foundations****AHD Core 40 Elective**

Level 10, 11, 12

Term: 1 Trimester (1 credit)

This course addresses knowledge and skills related to design, production, acquisition and distribution in the textiles and fashion areas. Areas to study include textiles, apparel, related equipment for clothing and sewing needs. Actual construction can be with apparel, craft, or household items. Students will need to provide their own materials for a project. Materials will include a pattern, fabric, and notions. Each student will make a notebook of samples of major clothing methods that are commonly used in construction of items.

**PROJECT LEAD THE WAY****56441/56442 Introduction to Engineering Design****AHD Core 40 Elective**

Level 9, 10

Term: 2 Trimesters (1 credit each trimester)

An introductory course which develops student problem solving skills with emphasis placed on the development of three-dimensional solid models. Students will



work from sketching simple geometric shapes to applying a solid modeling computer software package. They will learn a problem solving design process and how it is used in industry to manufacture a product. The Computer Aided Design System (CAD) will also be used to analyze and evaluate the product design. The techniques learned, and equipment used, is state of the art and are currently being used by engineers throughout the United States.

**Principals of Engineering**

**AHD Core 40 Elective**

Level 10, 11, 12

Term: 2 Trimesters (1 credit each trimester)

A broad-based survey course designed to help students understand the field of engineering and engineering technology and its career possibilities. Students will develop engineering problem-solving skills that are involved in post-secondary education programs and engineering careers. They will also learn how engineers address concerns about the social and political consequences of technological change.

**Principals of Biomedical Sciences (PBS)**

**AHD Core 40 Elective**

Level 9, 10, 11, 12

Term: 2 Trimesters (1 credit each trimester)

This course provides an introduction to the biomedical sciences through exciting hands-on projects and problems. Students investigate the human body systems and various health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. They determine the factors that led to the death of a fictional person, and investigate lifestyle choices and medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, medicine, research processes and bioinformatics. Key biological concepts including homeostasis, metabolism, inheritance of traits, and defense against disease are embedded in the curriculum. Engineering principles including the design process, feedback loops, and the relationship of structure to function are also incorporated. This course is designed to provide an overview of all the courses in the Biomedical Sciences program and lay the scientific foundation for subsequent courses. The maximum number of students per class is 24 based on PLTW curriculum. Class enrollment will be determined by grade and GPA with preference given to higher GPA's.

**Human Body Systems (HBS)**

**AHD Core 40 Elective**

Level 9, 10, 11, 12

Term: 2 Trimesters (1 credit each trimester)

Students will engage in the study of the processes, structures, and interactions of the human body systems. Important concepts in the course include: communication, transport of substances, locomotion, metabolic processes, defense, and protection. The central theme is how the body systems work together to maintain homeostasis and good health. The systems will be studied as "parts of a whole," working together to keep the amazing human machine functioning at an optimal level. Students will design experiments, investigate the structures and functions of body systems, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary actions, and respiratory operation. Students will work through interesting real world cases and often play the role of biomedical professionals to solve medical mysteries. The maximum number of students per class is 24 based on PLTW curriculum. Class enrollment will be determined by grade and GPA with preference given to higher GPA's.

**INDUSTRIAL TECHNOLOGY DEPARTMENT**

**47921 Introduction to Construction I**

**AHD Core 40 Elective**

Level 10, 11, 12

Term: 1 Trimester (1 credit)

This course is designed for the student who is interested in the construction

field of study. This interest might be career oriented or simply for increased consumer awareness. It may also be generated by the desire to learn the methods of home repair or reconstruction. The course is divided into several areas: concrete, basic framing, residential plumbing and electricity, finishing structure and/or advanced woodworking. The lessons are activity orientated and require group dynamics. Students are required to work cooperatively in groups, do basic research, and work hands-on in the lab area. Creativity and leadership are utilized throughout the course.

**47922 Introduction to Construction II** **AHD Core 40 Elective**

Level 11, 12 Term: 1 Trimester (1 credit)

Introduction to Construction II is designed for the student who is interested in the construction field of study. This interest might be career oriented or simply for increased consumer awareness. It may also be generated by the desire to learn the methods of home repair or reconstruction. The course is divided into 2 distinct areas: residential maintenance and a building project or to create advanced woodworking project concepts. The lessons are activity oriented and require group dynamics. Students are required to do presentations, work cooperatively in groups, do basic research, and work hands-on in the lab area. Creativity and leadership are utilized throughout the course. Projects are based on the market. If conditions cooperate, a small shed will be constructed. If not, individual advanced wood products are utilized. In case of the latter, students will provide the materials for their projects.

**47841 Introduction to Manufacturing I** **AHD Core 40 Elective**

Level 9, 10, 11, 12 Term: 1 Trimester (1 credit)

This course is designed for the student with an interest in the wood working field and its processes. Students are exposed to the materials, machines, safety, processes, and careers associated with modern woodworking. Students spend most of the class in the lab area. Students will construct a small project designed by the instructor in the first 9 weeks, then will construct a project of their own design for the remaining 2 weeks.

**4796 Introduction to Manufacturing II** **AHD Core 40 Elective**

Level 10, 11, 12 Term: 1 Trimester (1 credit)

An introductory course designed to give the student a basic understanding of the metalworking systems and processes. The student is exposed to the areas machining, sheet metal, architectural, and foundry. The course is activity orientated and competency based. A large portion of the class is spent in the lab environment. Students make projects in each of the areas listed above which demonstrate the skills of that area. The environment is group oriented and students are encouraged to demonstrate leadership skills and group dynamics.

**47961/47962 Intro to Adv Manufacturing and Logistics I & II** **AHD Core 40 Elective**

Level 11, 12 Term: 2 Trimesters (1 credit each trimester)

Introduces students to the technology, skills, and knowledge needed in today's modern, advanced manufacturing and logistics environments. Students will gain a working knowledge of safety, quality, and production processes through online course work and simulations, and will apply their new skills and knowledge in team-based classroom projects. Emphasis is placed on understanding manufacturing and logistics processes as a whole. In addition, students will gain a basic understanding of computer-numerical control devices, electrical skills, operations processes, inventory principles, and basic business principles. Students have the opportunity to develop the characteristics employers seek, as well as skills that will help them in future endeavors, such as team building, effective communication,

and problem-solving. Students will earn nationally-recognized industry certificates and college credit. Students may qualify to earn college credit through Ivy Tech, which is transferable to many colleges and will count toward flex credits needed for an Academic Honors Diploma.

### LANGUAGE ARTS

As part of the English curriculum, all students are required to participate in the Accelerated Reader program. *Failure to meet certain point values will result in automatic failure of the class.* Besides studying grammar, composition, or literature, students will also examine the meanings and origins of words in a weekly vocabulary lesson.

#### 1090 Composition

AHD Core 40

Level 9, 10, 11, 12

Term: 1 Trimester (1 Credit)

Composition provides students with an opportunity to learn to write by writing. Students will have frequent opportunities to write for different audiences and purposes using the writing process. For peer editing, students receive specific instructions in providing constructive comments. In addition to providing instruction in writing clear, coherent, and organized text, this course will teach strategies for collecting and transforming data for use in writing and using criteria to evaluate and revise writing. Students are given opportunities to work on paraphrasing skills, journal writing, and technology. Instruction in grammar, usage, and mechanics will be integrated with writing so that students develop a functional understanding of language and a common vocabulary for discussing writing. Currently offered in summer school only.

#### 10023/10024 English 9-1, 9-2 Honors

AHD Core 40

Level 9

Term: 1 Trimester (1 credit)

English 9 Honors is a study of English grammar and composition, oral communications, and technology. Its purpose is to improve students' skills in reading, writing, oral communications, vocabulary, spelling, and technology skills. Language study enables students to improve their mechanics, structure, and usage in order to communicate more effectively via writing and speaking media. Composition requires students to write for a variety of audiences and purposes while edifying skills in paragraph writing. Instruction and practice in grammar and composition skills and in the writing process are emphasized.

#### 10043/10044 English 10-1, 10-2 Honors

AHD Core 40

Level 10

Term: 1 Trimester (1 credit)

English 10 Honors is an integrated study of composition, grammar, oral communication, and vocabulary with a connection to literature and technology. Composition provides development in sentence and paragraph structure addressed to various audiences. Grammar is emphasized through daily oral language as well as writing assignments such as journal entries, paragraphs, business letters, and literature responses. Vocabulary is emphasized on a weekly basis to enhance both speaking and writing skills. Oral communication and technology are integrated with the above components through a wide range of projects done individually and collectively. **Pre-requisite: Earned at least a 'B-' in previous year's English classes or by teacher recommendation.**

**10063/10064 English 11-1, 11-2 Honors****AHD Core 40**

Level 11

Term: 1 Trimester (1 credit)

English 11 Honors is a review of the parts of speech, usage of grammar, phrases and clauses, sentence structure, mechanics, and logical thinking. There is a heavy emphasis on composition units, which includes essays and a required research project. Vocabulary and daily oral language lessons are used to supplement the focus on grammar. Other components include speech (informative) and literature.

**Pre-requisite: Earned at least a 'B-' in previous year's English classes or by teacher recommendation.**

**10083 English 12 Honors****AHD Core 40**

Level 12

Term: 1 Trimester (1 credit)

Students briefly review grammar, usage, and mechanics as each applies to improving written communication, the focus of the class. Using the writing process, students develop skills in writing narrative essays and historical investigative reports, in presenting their ideas in multimedia format, and in job-related writing, such as resumes. They also analyze the structural features of informational and technical materials. Students should expect regular vocabulary study and considerable writing and revising of their work. **Pre-requisite: Earned at least a 'B-' in previous year's English classes or by teacher recommendation.**

**10561/10562 English Language and Composition, AP****AHD Core 40**

Level 12

Term: 2 Trimesters (1 credit each trimester)

English Language and Composition, Advanced Placement is a course on the content established by the College Board. Students will become skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts. They become skilled writers who write in a variety of forms—narrative, exploratory, expository, argumentative, and on a variety of subjects. Students should have access to a computer and the internet outside of school to complete assigned work. **Pre-requisite:**

**Complete College Bound English 11, Genres 11, or Speech with at least a 'B' average.**

**Pass a diagnostic exam given by the English Department.**

**10021/10022 English 9-1, 9-2****Core 40**

Level 9

Term: 2 Trimesters (1 credit each trimester)

Students study sentence completeness, paragraph and essay development, grammar, usage, and mechanics, library skills and reading skill development in the various genres through selections in the anthology, emphasizing vocabulary development and comprehension. This course is for the non-college bound student.

**10041/10042 English 10-1, 10-2****Core 40**

Level 10

Term: 2 Trimester (1 credit each trimester)

English 10 is an integrated study of composition, grammar, literature, oral communication, vocabulary, and technology. Composition provides development in sentence and paragraph structure addressed to various audiences. Grammar is emphasized through daily oral language as well as writing assignments such as journal entries, paragraphs, business letters, and literature responses. Vocabulary is emphasized on a weekly basis to enhance both speaking and writing skills. Reading skills are developed through genre reading of short stories, poetry, nonfiction, drama, and a novel.

**10061/10062 English 11-1, 11-2****Core 40**

Level 11 Term: 2 Trimesters (1 credit each trimester)

English 11-1 is a combined study of writing, reading, vocabulary, and oral communication. Students will thematically study American literature selections. Writing and technology are interwoven through research, journals, essays, and projects. During the trimester, students will complete and present a research project.

**10081/10082 English 12-1, 12-2****Core 40**

Level 12 Term: 2 Trimesters (1 credit each)

This course combines British literature and language to improve skills in reading, writing, communication, vocabulary, and technology. Students examine, practice, or create work place documents, resumes, business letters, editorials, college applications, and interview skills. Students are encouraged to develop life-long reading habits, practice active reading, and expand their vocabularies. The literature section is a chronological survey of English literature from the Anglo-Saxon Period through the Medieval Period, the Renaissance, the Restoration and Eighteenth Century, the Romantic Age, the Victorian Age, and the Twentieth Century. Students shall read required representative works in each period. Students identify universal themes and apply them to the conditions of today and the students' own lives. In addition, the instructor may supplement with other works for any or all time periods.

**1076 Speech****AHD Core 40**

Level 11, 12 Term: 1 Trimester (1 credit)

Introduces fundamental concepts and skills for effective public speaking, including audience analysis, outlining, research, delivery, critical listening and evaluation, presentational aids, and use of appropriate technology. Students may qualify to earn college credit through Ivy Tech, which is transferable to many colleges and will count toward flex credits needed for an Academic Honors Diploma.

**FOREIGN LANGUAGE****20401/20402 German I****AHD Core 40**

Level 9, 10, 11, 12 Term: 2 Trimesters (1 credit each trimester)

Introduction to the basic structures of German language, from the beginning emphasis will be placed upon spoken German. Students respond to and give oral directions and commands; understand and use appropriate forms of address; ask and answer simple questions related to needs and interests; read menus, signs, and schedules; comprehend brief written directions and information; read short narrative texts; write familiar words and phrases in appropriate contexts; learn about nonverbal communication; discuss current events; learn about the major holidays; learn about the geography; and learn about appropriate etiquette.

**20421/20422 German II****AHD Core 40**

Level 10, 11, 12 Term: 2 Trimesters (1 credit each trimester)

This course provides a review of German I and completes the introduction of the basic structures of German language. Emphasis will be placed upon spoken German. Student will learn to ask questions regarding routine activities; relate a simple narrative about a personal experience; interact in a variety of situations to meet personal needs; understand main ideas and facts from simple authentic texts; focus

on pronunciation; write brief texts such as postcards, email messages, journal entries, and text messages. Students will learn cultural aspects such as hosting a party, awareness of time expectations, and visual arts, architecture, literature, and music.

**20441/20442 German III**

**AHD Core 40**

Level 11, 12 Term: 2 Trimesters (1 credit each trimester)

Increased mastery of elementary German language along with the introductions of more advanced language concepts. Increased focus on spoken German by responding to factual in interpretive questions and interaction in a variety of social situations; reading for comprehension from authentic materials; reading short stories, plays, and poetry; completion of authentic forms and documents; writing paraphrases and summaries; describing historical events, political structures, value systems, visual arts, architecture, literature, and music; seeking help in a crisis situation; participating appropriately at special family occasion. This is a transferIN course; students can earn 4 credit hours through Vincennes University for each trimester.

**20461/20462 German IV**

**AHD Core 40**

Level 12 Term: 2 Trimesters (1 credit each trimester)

German IV is a continuation of German III. Course work will emphasize listening and speaking skills, reading the novels Die Weisse Rose and Faust and improving grammar skills. Students will have various web-based projects, one 400 word writing assignment in German, and one cultural writing assignment in English. This is a transferIN course; students can earn 4 credit hours through Vincennes University for each trimester.

**21201/21202 Spanish I**

**AHD Core 40**

Level 9, 10, 11 Term: 2 Trimesters (1 credit each trimester)

In this course, students will engage in conversation, express feelings and emotions, interpret written and spoken language, write brief essays with guidance, as well as demonstrate an understanding of the relationship between the practices and perspectives of the culture. Students will learn about geography, major holidays, read menus and schedules. Must be a 9<sup>th</sup> grade student on an Academic Honors Diploma track.

**21221/21222 Spanish II**

**AHD Core 40**

Level 10, 11, 12 Term: 2 Trimesters (1 credit each trimester)

In this course, students will demonstrate what they have learned in Spanish I. This level of Spanish is a review of Spanish I. Students will engage in conversation, interpret written and spoken language, present information, concepts, and ideas to an audience, write brief essays with guidance, demonstrate an understanding of the relationship between products and perspectives for the culture as well the concept of culture through comparisons of the cultures studies and their own.

**21241/21242 Spanish III**

**AHD Core 40**

Level 11, 12 Term: 2 Trimesters (1 credit each trimester)

In this course, students will demonstrate increased mastery of Spanish grammar and vocabulary. Students will engage in conversation, interpret written and spoken language, write brief essays, present information, concepts, and ideas to an audience, demonstrate an understanding for Spanish culture. Students use the language both within and beyond the school setting, as well as show evidence of becoming life-long learners by using the language for personal enjoyment and enrichment.

## MATHEMATICS DEPARTMENT

### 25602 Math Lab Algebra I\* DOES NOT COUNT TOWARD MATH GRAD REQUIREMENT

Level 10 Term: 1 Trimester (1 elective credit)

This is the first course in a three-trimester program to complete Algebra I\*. Math Lab Algebra I\* will use Algebra, Concepts and Applications book. This class will cover the first 5 chapters. Topics include writing expressions, associative, communicative, and distributive properties, integers, graphing, rational numbers, equations, percents, proportions, and probability. This class will go at a slower pace. This class counts as an elective credit but does not count toward the 4 required math credits for graduation.

### 25205/25206 Algebra I\* General Diploma

Level 10, 11, 12 Term: 2 Trimesters (1 credit each trimester)

Algebra I\* follows Math Lab Algebra I\* to complete the Algebra I\* course. This course will help students to understand the basic structure of algebra and to acquire skills to simplify expressions, solve equations, use equations to solve work problems, and to graph equations. Other topics covered in this course include properties of real numbers, solution sets, basic operations with polynomials, solving quadratic equations and systems, use of exponents, and introductory topics from statistics and probability. Students will use algebraic skills learned in a wide range of problem-solving situations. **Pre-requisite: Math Lab Algebra I\***

### 25601 Math Lab Algebra I DOES NOT COUNT TOWARD MATH GRAD REQUIREMENT

Level 9, 10, 11, 12 Term: Trimester (1 credit)

Math Lab Algebra I is the first course in a three-trimester program to complete Algebra I. This course will help students to understand the basic structure of algebra and to acquire skills to simplify expressions, solve equations, use equations to solve work problems, and to graph equations. Students enrolling in this course should have good skills in using fractions and decimals. This course will be followed by Algebra I to complete the Algebra course. This class counts as an elective credit but does not count toward the 4 required math credits for graduation.

### 25203/25204 Algebra I Core 40

Level 9, 10, 11, 12 Term: 2 Trimesters (1 credit each trimester)

Algebra I follows Math Lab Algebra I to complete the Algebra I program. This course will provide development of the algebraic skills and concepts necessary for other college-preparatory courses. Topics covered in this course include properties of real numbers, solution sets, basic operations with polynomials, solving linear and quadratic equations and systems, radicals, use of exponents, and introductory topics from statistics and probability. Students will use algebraic skills learned in a wide range of problem-solving situations.

### 25201/25202 Algebra I Honors AHD Core 40

Level 9, 10, 11, 12 Term: 2 Trimesters (1 credit each trimester)

Algebra I Honors will provide development of the algebraic skills and concepts needed for other college-preparatory courses. Topics covered include properties of real numbers, solution sets, basic operations with polynomials, solving linear and quadratic equations and systems, radicals, use of exponents, and introductory topics from statistics and probability. Students will use algebraic skills learned in a wide range of problem-solving situations.

**25325/25326 Geometry\*****General Diploma**

Level 10, 11, 12

Term: 2 Trimesters (1 credit each trimester)

Geometry\* is a two-trimester course that will study the basic functions of Geometry. Students will cover the first 8 weeks for the first semester in Geometry\*, Concepts and Applications book. Topics include, but are not limited to: reasoning in geometry, segment measure and coordinate graphing, angles, parallels, triangles and congruence, more about triangles, triangle inequalities and quadrilaterals. Students will cover Chapters 9-13 during second trimester. Topics include, but are not limited to: proportions and similarity, polygons and area, circles, surface area and volume, and right triangles and trigonometry.

**25323/25324 Geometry****AHD Core 40**

Level 10, 11, 12

Term: 2 Trimesters (1 credit each trimester)

Geometry is a two-trimester course that will study properties of plane figures and three-dimensional figures. Students will begin the course by using inductive reasoning, spatial relationships and will discover relationships between basic geometric shapes. Properties of polygons will be explored and deductive reasoning, including two-column proofs, will lead to new properties. Topics studied will include coordinate geometry, properties of parallel lines, congruent and similar triangles, circles, area of polygons, and volume of prisms and cylinders. Basic trigonometry functions will be included. Throughout the course, students will use newly discovered properties and relationships to solve workplace-related problems.

**25321/25322 Geometry Honors****AHD Core 40**

Level 10, 11, 12

Term: 2 Trimesters (1 credit each trimester)

Geometry Honors provides students with experiences that deepen the understanding of shapes and their properties. Properties and relationship of geometric figures include the study of angles, lines, planes, congruent and similar triangles, trigonometric ratios, polygons, circles, and spatial drawings. Geometry is a math of logical reasoning with strong emphasis on the precise expression of logic. Construction and a study of Geometry from a coordinate system approach are also studied. Area and volume become an application of these concepts. Compass & protractor will be used extensively. It is required that students have their own.

**25221/25222 Algebra II****Core 40**

Level 10, 11, 12

Term: 2 Trimesters (1 credit each trimester)

Algebra II covers many of the same topics as Algebra I, but in more depth. The expanded topics of the course include: algebraic theorems, relations, equations and inequalities, functions, polynomials, radicals, rational exponents, exponential and logarithmic functions, complex numbers, sequences and series, counting principle, and probability. The TI-83 or TI-84 Plus calculator will be used extensively. Students are required to have their own graphing calculator.

**25223/25224 Algebra II Honors****AHD Core 40**

Level 10, 11, 12

Term: 2 Trimesters (1 credit each trimester)

Algebra II Honors covers many of the same topics as Algebra I, but in more depth. The expanded topics of the course include: algebraic theorems, relations, equations and inequalities, functions, polynomials, radicals, rational exponents, exponential and logarithmic functions, complex numbers, conic sections and their graphs, sequences and series, counting principle, and probability. These topics will be taught at a greater difficulty level than a regular Algebra II course in order to prepare students for Pre-Calculus. With teacher permission, sophomores may take Algebra II Honors and Geometry Honors in the same year if they complete Algebra I or Algebra I Honors with a B+ or above. The TI-83 or TI-84 Plus calculator will be used extensively. Students are required to have their own



graphing calculator. Students may qualify to earn college credit through Ivy Tech, which is transferable to many colleges and will count toward the additional requirements needed for an Academic Honors Diploma.

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**25642 Pre-Calculus****AHD Core 40**

Level 11, 12

Term: 2 Trimesters (1 credit each trimester)

Pre-Calculus covers many trigonometric topics including: 1) understanding circular functions, their properties and graphs; 2) inverse trig functions; 3) trig equations and identities; 4) vectors; 5) the Law of Sines and the Law of Cosines; 6) applications of the trig functions; 7) polar coordinates as well as applications. Pre-Calculus also covers topics including 8) the relationship of equations and graphs of linear, quadratic, and parametric equations; 9) translation of axes; 10) locus and vectors 11) theory of equations; 12) exponential and logarithmic functions; 13) matrices; and 14) determinants. TI-83 or TI-83 Plus calculator will be used extensively in Pre-calculus. It is required that students have their own calculator. Students may qualify and earn college credit through Ivy Tech, which is transferable to many colleges and will count toward the additional requirements needed for an Academic Honors Diploma.

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**25621/25622 AP (Advanced Placement) Calculus****AHD Core 40**

Level 12

Term: 2 Trimesters (1 credit each trimester)

Calculus is a course that provides students with the content that has been established by the College Board. Topics include 1) limits; 2) continuity; 3) derivatives; 4) definite integrals; 5) techniques of integration involving rational, trigonometric, logarithmic, and exponential functions; and 6) applications of the derivative, the integral, and theory of calculus. It is intended for college bound students as an introduction to calculus, not a replacement of college calculus. Teacher approval and a grade of A or B in previous math courses is recommended for success in A.P. Calculus. TI-83 or TI-84 Plus calculator will be used extensively in calculus. It is required that students have their own calculator. Students may qualify and earn college credit through Ivy Tech, which is transferable to many colleges and will count toward the additional requirements needed for an Academic Honors Diploma.

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**CADET TEACHING AT ELEMENTARY & MIDDLE SCHOOL**

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**5021 Cadet Teaching**

Level 12

Term: 1 Trimester (1 credit)

This elective course provides students in grade 12 organized exploratory teaching experiences in kindergarten through grade 8. This course provides a balance of class work relating to: (1) classroom organization, (2) classroom management, (3) the curriculum and instructional process, (4) observations of teaching, (5) instructional experiences, and (6) current education issues. Study topics, background readings, reflective journaling, and current educational news articles provide the cadets information concerning the teaching profession. Cadets will participate daily in a classroom setting as well as complete independent online assignments regarding teaching as a career.

Cadet teaching must be approved through the Guidance Department. Students must be on Core 40 or AHD track, have a 2.5 GPA or higher at the end of junior year, and have a tentative career in education. The student's attendance is of vital importance and transportation is required!

## PHYSICAL EDUCATION DEPARTMENT

### 3500 Advanced Health Education

**AHD Core 40 Elective**

Level 10, 11, 12

Term: 1 Trimester (1 Credit)

Advanced Health Education is an elective course that offers secondary students an in-depth study of the ten health content areas as described in the Indiana Health Standards Guide. The scientific components of health are expanded and explored. This course focuses on health concerns and health risk appraisals, which might include: (1) individual wellness plans, (2) health promotion, (3) chronic and communicable diseases, (4) stress management, (5) personal fitness, (6) management of sports injuries, (7) death and dying, and (8) first aid. Careers in health are addressed within the context of the course.

### 35601 Elective Physical Education - Elective

Level 10, 11, 12

Term: 1 Trimester (1 credit)

Elective Physical Education promotes lifetime sport and recreational activities and provides an opportunity for an in-depth study in specific areas. A minimum of two of the following three activities should be included: (1) health-related fitness activities (cardio respiratory endurance, muscular strength and endurance, flexibility and body composition), (2) team sports, (3) individual or dual sports. It includes the study of physical development concepts and principals of sport and exercise as well as opportunities to develop or refine skills and attitudes that promote lifelong fitness. Traits such as sportsmanship, competition and teamwork are stressed. Students have the opportunity to design and develop an appropriate personal fitness program that enables them to achieve a desired level of fitness. Ongoing assessment includes both written and performance-based skill evaluation.

- Classes are coeducational unless the activity involves bodily contact or groupings are based on an objective standard of individual performance developed and applied without regard to gender.
- A maximum of six credits can be earned in all Physical Education courses.
- Uniform is required.

STUDENTS MAY NOT HAVE A STUDY HALL.

**Pre-requisite: 9th grade physical education credit. A total of 7 credits may be earned in all Physical Education courses.**

### 3560 Elective Physical Education - WEIGHT TRAINING

Level 10, 11, 12

Term: 1 Trimester (1 credit)

This course is designed to develop a more meaningful knowledge and appreciation of physical skills and activities, and to learn the rules and regulations of a different sport each trimester; three sports will be covered on a rotating schedule. Students will be "evaluated" and then participate in a realistic conditioning program, which will consist of free weight strength training and a fitness program. An IHSAA physical examination is required for this course. All students will be required to purchase a fitness booklet for \$1.00. Students who cannot follow the established safety procedures or who do not honestly attempt to progress toward the mutually agreed upon goals will be dropped from the course. Along with the following points of emphasis: sportsmanship, strategy, and officiating. May be taken more than once for credit. STUDENTS MAY NOT HAVE A STUDY HALL. **Pre-requisite: 9th grade physical education credit. A total of 7 credits may be earned in all Physical Education courses.**

**3506 Health & Wellness Education****AHD Core 40**

Level 10

Term: 1 Trimester (1 credit)

A well-designed and implemented school health education program can help to prevent health problems and improve an individual's quality of life and total well-being. Comprehensive health education provides the opportunity to develop skills for daily living and prepares individuals for their future. Efforts must be made to emphasize health as a value in life and to enhance critical thinking, decision-making, problem solving, and behavioral skills. Quality health education motivates individuals to voluntarily take responsibility in protecting, maintaining, and improving their health and to help provide for the well-being of their community. Comprehensive high school health education includes instruction in ten health content areas: (1) Growth and Development; (2) Mental and Emotional Health; (3) Community and Environmental Health; (4) Nutrition; (5) Family Life; (6) Consumer Health; (7) Personal Health; (8) Alcohol, Tobacco, and Other Drugs; (9) Intentional and Unintentional Injury; and (10) Health Promotion and Disease Prevention.

**3542 1,2,3,4 Education I & II****AHD Core 40**

Level 9

Term: 2 Trimesters (1 credit)

Physical Education I continue the emphasis on health-related fitness and developing the skills and habits necessary for a lifetime of activity. This program includes skill development and the application of rules and strategies of complex difficulty in at least three of the following different movement forms: (1) health-related fitness activities (cardio respiratory endurance, muscular strength and endurance, flexibility, and body composition), (2) aerobic exercise, (3) team sports, (4) individual and dual sports, (5) gymnastics, (6) outdoor pursuits, (7) self-defense, (8) aquatics, (9) dance, and (10) recreational games. Ongoing assessment includes both written and performance-based skill evaluations. This course is required to meet state graduation requirements, Academic Honors diploma, and Core 40 requirements. Classes are coeducational unless the activity involves bodily contact or groupings are based on an objective standard of individual performance developed and applied without regard to gender. Adapted physical education must be offered, as needed, in the least restricted environment and must be based on individual assessment.

**SCIENCE DEPARTMENT****30241/30242 Biology I, General****AHD Core 40**

Level 9

Term: 2 Trimesters (1 credit each trimester)

Biology I is a required course based on regular laboratory and field investigations that include a study of the structures and functions of living organisms and their interactions with the environment. At a minimum, students enrolled in Biology I explore the functions and processes of cells, tissues, organs and systems within the various species of living organisms and the roles and interdependencies of organisms within populations, communities, ecosystems and the biosphere. Students work with the concepts, principles, and theories of the living environment. Students are expected to gain an understanding in the history and development of biological knowledge, explore biological careers, and investigate biological questions and problems related to societal issues.

**30201/30202 Biology, Advanced Placement****AHD Core 40**

Level 11, 12

Term: 2 Trimesters (1 credit each trimester)

Biology, Advanced Placement or College Credit (Bio 105 from Ivy Tech), is a course which follows College Entrance Examination guidelines for Advanced Placement. Students will take an AP Biology Exam in May which may help them earn college credit. Due to the amount of material covered there will be a summer assignment that will be due on the first day of class. The range and depth of the topics covered will require much time and effort by the student to maximize success. Students should have completed 2 years of biology/chemistry and have a 3.0 grade point average or above. AP labs must be completed in a carbon copy lab notebook. The cost will be added to the student's book fee. Exams will consist of multiple choice and essays. Good writing skills are a necessity. This class is capped at 24 students due to the extensive lab work. Seniors will be placed in the class first, followed by juniors in order of highest GPA. Juniors that do not get in the class will have highest priority as seniors.

**30441 Earth & Space Science I****AHD Core 40**

Level 10, 11, 12

Term: 2 Trimesters (1 credit each trimester)

Earth and Space Science is a study of the lithosphere: including rocks and mineral identification, and geologic processes like stream erosion, volcanic activity and earthquakes during the first semester. In the second semester, students will study oceanography and certain environmental effects due to "El Nino" in a computer lab simulation. In addition, astronomy and meteorology will be studied with emphasis on collection of data from the high school weather station. This a lab course and will include the use of reading topographic maps, data collection, and presentation of data. Students will have opportunities to gain an understanding of the history of the development of the earth and space sciences, to explore the uses of knowledge of the earth and its environments in various careers, and to cope with problems related to personal needs and social issues.

**30643/30644 Chemistry-Honors****AHD Core 40**

Level 10, 11

Term: 2 Trimesters (1 credit each trimester)

Chemistry is the study of the composition of matter and the changes that matter undergoes. These involve changes in appearance, chemical composition, and energy. There are approximately 12 laboratory experiments each trimester that require either a written report or analysis questions.

**Pre-requisite: A student has passed or is currently taking Algebra II- Honors.**

**30601/30602 Chemistry-Advanced Placement****AHD Core 40**

Level 11, 12

Term: 2 Trimesters (1 credit each trimester)

Chemistry, Advanced Placement or College Credit (Chem 105 from Ivy Tech), is a 2 semester chemistry course that follows College Board entrance examination guidelines for Advanced Placement chemistry. Students will take an AP Chemistry Exam in May which may help them earn college credit. Due to the amount of material covered, there will be a pre-class assignment that will be due on the first day of class. The range and depth of the topics covered will require much time and effort by the student to maximize success. Students will be expected to do extensive reading outside of class and some topics will be independent study. Students should have completed Honors Chemistry with at least a B or better. This is a laboratory based science that will follow the Advanced Placement chemistry guidelines, and AP labs must be completed in a carbon copy lab notebook. The cost will be added to the student's book fee. Exams will consist of multiple choice and free response questions. This class is capped at 22 students due to the extensive laboratory work and laboratory equipment costs. If the need arises, seniors will be placed in the class first followed by juniors in order of Highest GPA. Juniors that do not get in the class will have highest priority as seniors.

**Pre-requisites: A student has passed or is currently taking Honors Chemistry I with a "B" or better and has taken or is currently taking Pre-Calculus.**

**30641/30642 General Chemistry I** **AHD Core40**

Level 11, 12 Term: 2 Trimester (1 credit each)

Chemistry is the study of the composition of matter and the changes that matter undergoes. These involve changes in appearance, chemical composition, and energy. There are approximately 10 laboratory experiments each trimester that require a written lab report or analysis questions.

**Pre-requisites: A student has passed or is currently taking Algebra II with a "C" or better.**

**30841/30842 Physics I** **AHD Core 40**

Level 12 Term: 2 Trimesters (1 credit each trimester)

Physics is the study of the relationship between matter and energy. It is the application of math to solve problems relating to matter and energy. About one period per week is spent in lab and written report on this lab work is required.

**Pre-requisites: Algebra I, Algebra II, Geometry, Chemistry I**

**31081/31082 Integrated Chemistry-Physics (ICP)** **AHD Core 40, Core 40, Core 40 Tech**

Level 11, 12 Term: 2 Trimesters (1 credit) **Honors**

Integrated Chemistry-Physics is course that focuses on the following topics: motion and energy; chemical, electrical, mechanical and nuclear energy; properties of matter; magnetism; energy production and the relationship to the environment. Students will gain scientific knowledge through observation and experimentation. Laboratory activities will be conducted to give students a hands-on approach, and enable students to evaluate and communicate results.

**Pre-requisites: A student must have passed Algebra I and have taken or currently taking Algebra II.**

**SOCIAL STUDIES DEPARTMENT**

**1514 Economics** **AHD Core 40**

Level 12 Term: 1 Trimester (1 credit)

A general study of economic systems with emphasis on American Capitalism. The course includes the study of production, price determination, banking, credit, taxes, and national budget.

**1532 Psychology** **AHD Core 40**

Level 12 Term: 1 Trimester (1 credit)

Psychology is a general applied psychology course. The basic intent of the class is to better understand human behavior and to be exposed to a variety of psychology terms and principals. Course grades will be based on assigned work, test scores, group projects, and a final exam.

**15321 Psychology Honors** **AHD Core 40**

Level 12 Term: 1 Trimester (1 credit)

Psychology Honors is a general applied psychology course. The basic intent of the course is to better understand human behavior and to be exposed to a variety of psychology terms and principles. This course is a modified online class. Most work will be completed independently with students utilizing Google Apps and Moodle to access and complete assigned work. Students will meet for film sessions and

testing. Students must have access to a computer and the internet outside of school. Course grades will be based on assigned work, test scores, group projects, and a final exam.

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**1534 Sociology**

**AHD Core 40**

Level 12 Term: 1 Trimester (1 credit)

This course describes and evaluates various aspects of individual and group behavior. Students should gain a better understanding of cultural uniformity and diversity. Specific areas of study include: social structure, the individual in society, deviance, social inequality, and social institutions. Test, homework, special projects, and class participation determine grades.

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**15403 U. S. Government**

**AHD Core 40**

Level 12 Term: 1 Trimester (1 credit)

This course is an in-depth look at our federal government. Topics to be studied are the Constitution, economic system, voting behaviors, and the three branches of government. A field trip to the courthouse is taken. Class time is spent in class discussion, note taking and group work projects. Grades are determined by class discussion, tests, (both objective and essay) and homework assignments.

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**15422 U.S. History**

**AHD Core 40**

Level 11 Terms: 2 Trimesters (1 credit each trimester)

This course builds upon previous studies of U.S. History and concentrates on the nation's growth and development from 1865 to the present. After a brief review of previous courses material U.S. History emphasizes organization and classification of details, events, and individuals in order to see the relationships between past and present. May involve some research work in the library.

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**15481/15482 World History & Civilization I & II**

**AHD Core 40**

Level 9, 10, 11, 12 Term: 1 Trimester (1 credit)

The first trimester is primarily a study of early man on the European Continent through the 18<sup>th</sup> century. Highlights of the course will be in study of the Hebrew Nation, Egypt, Greek culture, and Roman history. Emphasis is put on the political, cultural, and economic aspects of these time periods.

The second trimester is a survey of European and Middle East History. It is a study of different cultures including a comparative analysis of the various types of governmental, economic, and social systems. We begin with the end of the 18<sup>th</sup> century to the present day. The grade in both classes will be based on class work, projects, and tests.

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**15701/15702 Geography & History of the World I & II**

**AHD Core 40**

Level 9, 10, 11, 12 Term: 2 Trimesters (1 credit each trimester)

Students develop and use the six elements of geography to better understand current events and issues facing the world today. These elements are: the World in Spatial Terms, Places and Regions, Physical Systems, Human Systems, Environment and Society, and the Uses of Geography. Students will demonstrate an understanding of these elements of geography in a contest of world history, primarily from 1450 to the present.

**15621/15622 U.S. History AP (Advanced Placement)****AHD Core 40**

Level 11 Term: 2 Trimesters (1 credit each trimester)

The AP U.S. History course is designed to provide students with the analytic skills and factual knowledge needed to deal critically with the problems and materials in U.S. history. Students will develop the skills necessary to arrive at conclusions on the basis of an informed judgement and to present reasons and evidence in essay format. Students should have access to a computer and the internet outside of school to complete assigned work.

**Pre-requisite: Complete College English 10 with at least a "B" average.**

**I.C.E.****5902 Interdisciplinary Cooperative Education (I.C.E.)****AHD Core 40 Elective**

Level 12

Qualified student may obtain release time from school to complete an internship in a selected career area at a cooperating worksite. Job procurement, communication, workplace socialization, and workplace flexibility are skill areas for student development. Development of a strong work ethic should be a high priority for students. The worksite supervisor and program coordinator will evaluate student performance. Students can earn a minimum of two credits per trimester towards graduation, and pay varies from site to site. The student must provide his/her own transportation to and from the job site.

**QUALIFICATIONS**

1. Must have senior classification.
2. All interested students will go through the application process to include a resume, cover letter, and application during second or third trimester of their junior year.
3. Must have completed 30 credits by the end of their junior year, passed all required classes, and passed the Graduation Qualifying Exam (GQE).
4. Cannot have more than 10 absences during their junior year or 5 tardies per trimester their junior year. Their attendance for their freshman and sophomore year will be reviewed.
5. Must meet employer or job site requirements.
6. All interested students will go through an interview process with the S.T.E.P. committee.
7. All interested students will interview with the employer.
8. All students on the program and their parents will sign a S.T.E.P. contract.
9. All school rules will apply to students while at the intern site.

**VOCATIONAL TRAINING THROUGH BEDFORD NORTH LAWRENCE**

Level 11, 12

Term: 6 Trimesters (2 credits per trimester)

Students must complete an application with the guidance office by March of their sophomore year if interested in attending Bedford Vocational Training. Attendance and passing all of the student's required courses will be considered when the applications are reviewed. All programs at the North Lawrence Area Vocational-Technical Center employ competency based instruction methods. Students are graded on their ability to demonstrate competency in related skills, knowledge, and attitudes. In addition, basic skills in communication, math, and science are stressed as well as career awareness and occupational requirements. On the job training will be available to students in their second year of the program who qualify. The following courses will be offered:

**55141/55142 Auto Collision Repair****Core 40 Elective**

The program is designed for students interested in pursuing a career in the vocation of Auto body Repair. Students will learn and apply the principles and theories of basic Auto body Repair and Refinishing for minor dent repair and basic refinishing, as well as exposure to fiberglass repair, plastics repair, glass replacement and welding. The second year enables the student to learn to perform major dent repairs, panel replacements, body and panel sectioning, custom refinishing, wreck rebuilding and body restorations and renovations.

**55101/55102 Auto Services Tech****Core 40 Elective**

This program is designed to provide experience and familiarization with all parts of the automobile. All phases of the auto repair occupation will be studied with the exception of the body sheet metal. Units of study include brake systems, steering & suspension systems, engine repair, engine performance, manual drive-transmission, automatic transmissions & transaxles, heating & air conditioning and electrical & electronics. Each student should become proficient in the use of hand tools, test equipment, and specialized tools needed in the automotive trades. Students that successfully complete the program will possess job entry skills of an automotive technician or one of the many other closely related occupations. Post-secondary credit is available for this program through articulation agreements with some technical and trade schools. This program is NATEF/ASE accredited and affiliated with the Vocational Industrial Clubs of America (VICA).

**55321/55322 Computer Network****Core 40 Elective**

Students will work independently and cooperatively on application programming projects to develop work place readiness skills. The student will utilize all phases of the program development life cycle. This includes: define the problem, design the logic, code the program, test and debug errors, maintenance, and documentation. Programming aids such as flow charts will be explored. The school is a certified Cisco Local Academy for the Network Administration Course and is an Authorized Testing Center for the Microsoft Office 2000 User Specialist program.

**Pre-requisites: Algebra, Computer Applications and Operations, and Computer Programming I.**

**55801/55802 Building Trades****Core 40 Elective**

This program is planned to give the student experience and instruction in residential and light commercial construction fundamentals and practice. Experience is provided in construction trade skills such as masonry, rough framing, electrical wiring, plumbing, heating and cooling, interior and exterior finishing, and site preparation. Classroom work in related technical and general information is provided. Students enrolling in this program gain the basics in residential and light commercial construction. This program is affiliated with VICA (Vocational Industrial Clubs of America).

**58021/58022 Cosmetology****Core 40 Elective**

The cosmetology program is regulated by the Indiana State Board of Health and requires at least 1500 hours to complete. Students are then eligible to take the state certification test. This is a two-year program for juniors and seniors and requires an extended school day plus additional time beyond the regular school year. Minimum enrollment for this program is fifteen students. Students interested in this program should consult their counselor regarding transportation, class fees, and time requirements.



**54121/54122 Early Childhood Education****Core 40 Elective**

This program prepares students for entry-level positions in Child Care. The first year is spent in the classroom and Child Care Laboratory. Those students who successfully complete the first-year program will spend three hours per day in a local child care facility during their second year.

**56841/56842 Electronics Technology****Core 40 Elective**

This program is designed for students interested in pursuing a career in the field of Electronics. Students will apply the principles and theories of electronics to layout, test, troubleshoot, and repair analog electronic circuits. Students will build and set-up equipment, prepare experiments, calculate and record results and construct prototype versions of electronic circuits. The second year will introduce students to the field of Digital Electronics. Students will learn what Digital circuits are and how they are used in everyday electronics equipment. Students will build and set-up Digital Equipment, prepare experiments using Integrated circuits, calculate and record results and construct prototype versions of Digital Integrated circuits. **Pre-requisite for this program: good Math Skills, students should have successfully completed Algebra.**

**5282/5284 Health Careers****Core 40 Elective**

The first portion of this program is spent in the classroom and laboratory studying topics necessary for satisfactory performance during the clinical phase of the program. After successfully completing the exploratory, knowledge, and procedures portion of the program, students spend their final year (three hours per day, p.m.) working in area health care facilities. Subjects covered during the classroom and laboratory phase of this program include career opportunities and requirements, ethics, anatomy, diseases, nursing care, terminologies, and procedures applicable to the student's selected field of health care.

**55721/55722 Graphic Imaging Tech****Core 40 Elective**

This is a course of study designed to provide training and instruction in computer generated graphic communications and related printing industries. Students who successfully complete the course work might also expect to have an excellent background for entrance into a post-secondary educational program. Knowledge, skill and attitude necessary to succeed in graphic communications occupations will be stressed. Units of instruction will include, but will not be limited to, graphic design and typography, layout and design of printed material, 35 mm black and white photography, pre-press image transfer, process photography, offset printing press-work, bindery and finishing operations, professional trade customs, professional business practices, and instruction in the areas of application and interviewing for employment. Students are members of VICA (Vocational Industrial Clubs of America), which offers both male and female students the opportunity to participate in educational, recreational, and civic activities at the local, state, and national levels.

**57821/57822 Machine Technology****Core 40 Elective**

Designed to provide experience and training in layout, lathe work, millwork, grinding, and other miscellaneous machine tool operations. Related instruction in technical and general related information is also a part of the course. The above are provided through a number of shop projects chosen by the instructor and student. Advanced problems and projects will also be pursued. Blueprint reading and mathematics are taught in the class in an applied manner so that the student

can see a need for both. The intent of the class is to teach job-entry skills for the various related trades using basic machine operators, and machine repairmen. This program is affiliated with VICA (Vocational Industrial Clubs of America).

**57761/57762 Welding Technology**

**Core 40 Elective**

Welding is a two-year program designed to train graduates for full time employment at entry-level positions upon completion. Welders permanently join metal parts by applying heat or pressure to the metal pieces to be joined, melting the parts and fusing them to form a permanent bond. Duties range from assisting in the fabrication of new equipment for industry and private sector to repairing old equipment. The work might be a small shop or a major industry.

Revised: April 2015

CIVIL RIGHTS ASSURANCE OF EQUAL OPPORTUNITY AND NON-DISCRIMINATION POLICY

In accordance with Title IX and Section 504, Brownstown Central Community School Corporation is committed to equal opportunity and does not discriminate on the basis of age, race, color, sex, handicapping conditions, or national origin including English proficiency, in any employment opportunity. No person is excluded from participation in, denied the benefits of, or otherwise subjected to unlawful discrimination on such basis under any educational program or student activity.

GRIEVANCE PROCEDURE

If you have experienced discrimination in such educational programs or activities, written inquiries about procedures that are available and for consideration of complaints alleging discrimination should be directed to your immediate supervisor, building principal, or one of the following:

Title IX Coordinator  
Superintendent of Schools  
608 West Commerce Street  
Brownstown, IN 47220

Section 504 Coordinator  
Jill Miller  
520 West Walnut Street  
Brownstown, IN 47220