

2016-2017

WEST CENTRAL
HIGH SCHOOL



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Note of Explanation

Students and parents need to give much consideration and thought when choosing courses. The curriculum has been planned so that it offers each student training and preparation for the world of work. A career is a life long process and much can be gained through the four years of study in high school toward achieving that goal. Certain subjects are required with this in mind, but other subjects are ultimately the student's choice. Once in a course, the student must do the work required if they are to gain from it. The faculty cannot force the student to study for tests, turn in assignments, etc. It is our hope that courses will be selected which best fit the needs of each student with their career objective in mind.

All courses are open to all students regardless of age, race, color, national origin, sex and handicapped condition. Educational services, programs, instruction and facilities will not be denied to anyone in the West Central School Corporation as the result of their age, race, color, national origin, sex or handicapped condition.

It is urgent that careful consideration be given to your selections. Please be positive that you want what you select. Course changes, once a term begins, can be costly and time-consuming to the staff, and disruptive to the student, to the teacher and to classes.

Four-Year Plan for Eighth Graders

During the spring term each eighth grader will meet with the counselor to formulate a four-year career cluster plan. Parents are invited and encouraged to attend this meeting to tentatively plan those courses, which the student will take during four years in high school. A booklet containing descriptions of each course and requirements for graduation will be made available to each student at that time. Eighth graders will then sign-up for the desired classes for grade nine.

During the spring term of each consecutive year, the four-year plan will be reevaluated and desired changes made. It is hoped that each student will try various subjects in grades nine and ten with career objectives coming into focus in grades eleven and twelve.

Requirements

All high school students are required to take six classes per term. Athletes must be passing in five classes.

Drop and Add Policy

All schedule changes should be made prior to registration week during the student/counselor meeting in the spring or during the summer advertised office hours. The week prior to the beginning of the school year is registration week. Schedule changes will **NOT** be made after registration week. Schedule changes will be allowed only for extenuating circumstances, i.e. a student is injured and cannot continue in physical education, a student fails a required class and needs to retake the class. The counselor and principal must approve extenuating circumstances.

At no time is a student to attend classes not on their schedule. After two days, if a student decides to drop a class, they must present a note from a parent stating that they approve of the course drop. A grade of **F** is recorded for that term.

No guarantee can be made that each student will receive the schedule they prefer. Some courses have limited enrollments; some are only offered one time, and some conflict with other requirements.

Scheduling

During the spring term, the high school counselor will begin the scheduling process. It starts with juniors who are planning their final year of high school. Revisions and additions to the curriculum will be explained to them. Students will be given a registration list of the courses they have chosen. Parents are urged to discuss the selections with their child. Course selections may be modified in Parent Connect.

Juniors will then be scheduled with the counselor to discuss the plan. Special attention will be given to requirements, career plans, post-secondary schooling, etc. Parents again are welcome to attend this appointment.

Sophomores and freshmen are scheduled in the same manner. Students are aided if there are problems in selecting their schedules and parents are urged to call the counselor, if they would like to discuss curriculum selection further.

Schedules will be available prior to the end of the school year. The counselor will maintain summer office hours for the purpose of revising schedules. Revising of schedules should be completed prior to the start of school.

Weighted Grades

Students enrolled in all English Honors courses, Advanced Placement (AP) courses, and Composition/Advanced Composition will receive a weighted grade upon completion of coursework. Grades earned will be multiplied by the weight of 1.2. Courses which are weighted are denoted with an * after the course title.

Changing To An Honors Level Course Sequence:

A student currently in a non-honors or regular class or a student move-in must meet three of the following criteria to move to an honors level class.

1. Earn an average of “B” or better on both semester grades
2. Obtain a written recommendation from his/her current teacher
3. Meet the requirements established by a departmental placement examination.
4. Complete an organized, standards-based portfolio

Students wishing to accelerate to an honors class from a regular class will be counseled as to the work level and expectations of the honors class. Parents will be required to sign a letter of understanding regarding the rigors of the course and the recommendation of the teacher or department chairperson.

GRADE POINT AVERAGE

Students may retake a course for a higher grade only if the student earned a C- or lower. Both grades will appear on the transcript; however, the higher grade will only count into the grade point average.

111-Introduction to Accounting– 1 credit IDOE 4524

112-Introduction to Accounting – 1 credit

Grade Level: 10, 11, 12

Accounting I is a business course that introduces the language of business using **Generally Accepted Accounting Principles (GAAP) and procedures for proprietorships and partnerships (corporations)** 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

113-Advanced Accounting – 1 credit IDOE 4258

114 Advanced Accounting – 1 credit

Grade Level: 11-12

Prerequisite: Accounting I, both semesters

Financial Services,(Advanced Accounting) an advanced-level business course, builds upon the Generally Accepted Accounting Principles (GAAP) and procedures learned in Accounting I. Emphasis is placed on managerial decisions made in corporate accounting, including in-depth analysis of financial statements.

117-Personal Financial Responsibility – 1 credit IDOE 4540

Grade Level: 9-12

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. A project based approach and applications through authentic settings such as work based observations and service learning experiences are appropriate. Direct, concrete applications of mathematics proficiencies in projects are encouraged.

CORE 40/AHD Elective

100-Introduction to Business – 1 credit IDOE 4518

Grade Level: 9-12

Introduction to Business, an introductory business course, provides the framework for all future business courses. This core course acquaints students with economics, entrepreneurship, management, marketing, law, risk management, banking, personal finance, and careers in business. The importance and application of business etiquette and ethics are included. Opportunities may be provided for the student to participate in job shadowing, job mentoring, and other field experiences.

116 – Preparing for College and Career – 1 credit

IDOE 5394

Grade Level: 8-12

Preparing for College and Careers 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 aptitudes, interests, values, and goals; examining multiple life roles and responsibilities as individuals and family members; planning and building employ ability 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. A project based approach, including computer and technology applications, cooperative ventures between school and community, simulations, and real life experiences, is recommended.

143-Business and Personal Law – 1 credit

IDOE 4560

Grade Level: 11-12

Business and Personal Law provides an overview of the legal system. Topics covered include: Basics of the Law, Contract Law, Employment Law, Personal Law, and Property Law. Both criminal and civil trial procedures are presented.

151 - Computer Tech Support - 2 Credits (Maximum of 6)

IDOE 5230

Grade Level: 11-12

Computer Tech Support allows students to explore how computers work. Students learn the functionality of hardware and software components as well as suggested best practices in maintenance and safety issues. Through hands on activities and labs, students learn how to assemble and configure a computer, install operating systems and software, and troubleshoot hardware and software problems.

GENERAL/CORE 40/TC/AHD Elective

152-Digital Applications and Responsibility – 1 credit

IDOE 4528

153-Digital Applications and Responsibility – 1 credit

Grade Level: 10-12 (Dual Credit)

Digital Applications and Responsibility is a business course that integrates computer technology, decision-making, and problem-solving skills. Areas of instruction include advanced applications and integration of a professional suite and the use of emerging technology.

GENERAL/CORE 40/TC/AHD Elective

154-Desktop Publishing – 1 credit

IDOE 4516

Grade Level: 10-12

Prerequisite: Digital Citizenship and Digital Citizenship, Advanced

Desktop Publishing is a business course designed to allow students to develop proficiency in using desktop publishing software to create a variety of printed publications. Students will incorporate journalistic principles in design and layout of print and publications including integration of text, graphics and use sophisticated hardware, and software to develop and create quality materials for business related tasks. Students will incorporate the process of analyzing information and audience and choosing the appropriate visual signals to communicate the desired message effectively.

155-Computer Programming – 1 credit

IDOE 4534

156-Computer Programming – 1 credit

Grade Level: 10-12

Prerequisite: Digital Citizenship, Algebra I

This class is designed to primarily introduce students to computer programming using various languages. Instructional strategies may include "hands-on" equipment operation and scenario-based activities. In-baskets, mini-baskets and LAPS may be used to expose students to workplace scenarios that require the development or programming go simple applications. Emphasis on necessary logical thinking processes is required for problem analysis and solving.

123;124 - Interactive Media – 1 credit per term

IDOE

Grade Level: 10 –12

Information Technology is a career and technical education business and information technology course that will prepare students for careers in business and industry working with interactive media. Students will become competent in creating, designing, and producing secure interactive media products and services for business and industry. This program of study emphasizes the development of digitally generated or computer enhanced products using multimedia technologies. Students will develop an understanding of IT professionalism including the importance of ethics, communication skills, and knowledge of the "virtual workplace." Business Professionals of America (BPA) is the co-curricular organization associated with this course and integrates its programs and services into the business classroom.

- 211-**Intro to Two Dimensional Art** – 1 credit IDOE 4000
 212-**Intro to Three Dimensional Art** – 1 credit IDOE 4002
 Grade Level: 9-12
 Prerequisite: Recommended Two Dimensional Art before Three Dimensional Art
 Students will examine, analyze, interpret, and judge works of art. Student should increase understanding and appreciation of art by making two-dimensional visual images. Students will study the following features of art; elements, principles, subject matter, media, techniques, styles and products/function. CORE 40/AHD
- 213-**Painting and Drawing** – 1 credit IDOE 4060
 214-**Painting and Drawing** – 1 credit IDOE 4064
 Grade Level: 9-12
 Prerequisite: Recommended Introduction to Two Dimensional Art
 Students will paint using a variety of mixed media, watercolor, oil, acrylic and other painting media. Students will learn how to increase their perceptive and expressive skills using a variety of tools and techniques. Students will draw realistic and abstract compositions. Students will study foreshortening, eye level and a variety of light sources. Experiences should include sketches, renderings, contour, gesture, and perspective drawings. Materials should include pencil, chalk, pastels, charcoal, pen and ink, and silverpoint. CORE 40/AHD
- 215-**Ceramics and Sculpture** – 1 credit IDOE 4040
 216-**Ceramics and Sculpture** – 1 credit IDOE 4044
 Grade Level: 9-12
 Prerequisite: Recommended Introduction to Three Dimensional Art
 Students will experience the designing, forming, and decorating processes of clay. Experiences should include the use of hand building, drape and press molds, use of the potter’s wheel, glaze and slip application, and firing procedures. Students’ will learn to use subtractive and additive processes, carving, modeling, construction and assembling. Materials should include wood, plaster, clay, metal, paper, wax, and/or plastic. CORE 40/AHD
- 217 - **Advanced Two and Three Dimensional Art** – 1 credit IDOE 4006
 Grade Level: 10-12
 Prerequisite: Introduction to Two and Three Dimensional Art
 Students will examine, analyze, discuss, interpret and judge works of art and artifacts. Students will study career and avocation opportunities in visual art. Students will continue making two dimensional art projects. Students should continue to increase their understanding and appreciation of art through responding to and making advanced three-dimensional visual images. Seniors are required to do a senior project. Portfolio development will be required of seniors. CORE 40/AHD

250; 251; 252; 253-**High School Band** – 1 credit

IDOE 4170

Grade Level: 9-12

Prerequisite: Permission from the Band Instructor

Band members develop musicianship and specific performance skills through full ensemble, chamber, and solo instrumental performance. This class should be taken throughout the school year if possible. Band provides experiences in creating, performing, reading, listening to, and evaluating music. Students will also connect musical concepts to the arts and other disciplines, history, and culture. Other concepts reinforced are practice techniques and instrument maintenance. The band performs at concerts, parades, football and basketball games, ISSMA Solo & Ensemble Contest, and other performance opportunities, during and outside of the school day, which support and extend learning in the classroom. Students also have opportunities to experience live performances by professionals and/or outside of the school day. Members of the high school color guard may also enroll in band. Color guard members also have rehearsal and performance obligations outside of the school day.

CORE 40/AHD

246,247,248,249-**Advanced Chorus** – 1 credit

IDOE 4188

Grade Level: 9-12

Prerequisite: Permission from the Choir Director

Students develop musicianship and specific performance skills, through ensemble and solo singing. Chorus classes provide instruction in creating, performing, conducting, listening to, and analyzing, in addition to focusing on the specific subject matter. Activities create the development of a quality repertoire in the diverse styles of choral literature appropriate in difficulty and range for the student. Students must participate in performance opportunities, outside of the school day, that support and extend learning in the classroom.

CORE 40/AHD

311-**Spanish I** – 1 credit IDOE 2120
312-**Spanish I** – 1 credit
Grade Level: 9-12 (Recommended Grade 10)
This course introduces students to effective strategies for beginning Spanish language learning and to various aspects of Spanish-speaking culture. The course encourages interpersonal communication through listening, speaking, reading and writing, providing opportunities to make and respond to basic requests and questions, understand and use appropriate greeting and forms of address, participate in guided conversations on familiar topics and write short passages. CORE 40/AHD

313-**Spanish II** – 1 credit IDOE 2122
314-**Spanish II** – 1 credit
Grade Level: 10-12
Prerequisite: Spanish I with a grade of C- average or better
This course builds on concepts introduced in Spanish I by encouraging the use of the language and cultural understanding. The course encourages interpersonal communication through speaking and writing, providing opportunities to make and respond to request and questions and participate in brief independent conversations. The course also emphasizes the development of reading and listening comprehension skills. In addition, students will describe the practices, products and perspective of the Spanish-speaking culture. CORE 40/AHD

315-**Spanish III** – 1 credit IDOE 2124
316-**Spanish III** – 1 credit
Grade Level: 11-12
Prerequisite: Spanish I & II with a grade of C- average or better
This course continues to emphasize the development of interpersonal communication through listening, speaking, reading, and writing. The course encourages communication about the past and the future as students acquire an increased ability to function in daily situations. Students will also become more familiar with the people, culture and geography of the Spanish-speaking world. CORE 40/AHD

317-**Spanish IV** – 1 credit IDOE 2126
318-**Spanish IV** – 1 credit
Grade Level: 11-12
Prerequisite: Spanish I, II and III with a grade of C- average or better
Spanish IV, a course based on *Indiana's Academic Standards for World Languages*, provides a context for integration of the continued development of language skills and cultural understanding with other content areas and the community beyond the classroom. The skill sets that apply to the exchange of written and oral information are expanded through emphasis on practicing speaking and listening strategies that facilitate communication, such as the use of circumlocution, guessing meaning in familiar and

unfamiliar contexts, and using elements of word formation to expand vocabulary and derive meaning. Additionally, students will continue to develop understanding of Spanish-speaking culture through explaining factors that influence the practices, products, and perspectives of the target culture; reflecting on cultural practices of the target culture; and comparing systems of the target culture and the student's own culture. This course further emphasizes making connections across content areas through the design of activities and materials that integrate the target language and culture with concepts and skills from other content areas. The use and influence of the Spanish language and culture in the community beyond the classroom is explored through the identification and evaluation of resources intended for native Spanish speakers. This course emphasizes conversation skills. Much of the work involves oral participation.
CORE 40/AHD

411-Intro to Agriculture, Food and Natural Resources – 1 credit IDOE 5056

412-Intro to Agriculture, Food and Natural Resources – 1 credit

Grade Level: 9-10

Fundamentals of Agricultural Science and Business is a yearlong course that is highly recommended as a prerequisite and foundation for all other agricultural classes. The nature of this course is to provide students with an introduction to careers and the fundamentals of agricultural science and business. Areas to be covered include: agricultural literacy, its importance and career opportunities, plant and soil science, environmental science, horticultural and landscape management, agriculture biotechnology, agriculture science and business tools and equipment, basic principles of and employability in the agriculture/horticulture industry, basic agribusiness principles and skills, developing leadership skills in agriculture, and supervised experience in agriculture/horticulture purposes and procedures. Student learning objectives are defined. Instruction includes not only agriculture education standards but many academic standards are included through the use of “hands-on” problem-solving individual and team activities.
CORE 40/TC/AHD Elective

413-Agribusiness Management – 1 credit IDOE 5002

414-Agribusiness Management – 1 credit

Grade Level: 11-12

Agribusiness Management is a yearlong course that presents the concepts necessary for managing an agriculture-related business from a local and global perspective. Concepts covered in the course include: exploring careers in agribusiness, global visioning, applying E-commerce, risk management, understanding business management and structures, entrepreneurship, the planning, organizing, financing, and operation of an agribusiness, economic principles, credit, computerized record keeping, budgeting, fundamentals of cash flow, federal, state, property and sales tax, insurance, cooperatives, purchasing, the utilization of information technology in agribusiness, marketing agricultural products, developing a marketing plan, advertising and selling products and services, understanding consumers and buying trends, agricultural law applications and employability skills.
CORE 40/TC/AHD Elective

417-**Sustainable Energy Alternatives** (Natural Resource II) – 1 Credit IDOE 5229

418-**Sustainable Energy Alternatives** (Natural Resource II) – 1 Credit

Grade Level: 11-12

Prerequisite: Introduction to Agriculture, Food and Natural Resources, Natural Resources

This course is a 2 semester course where students will use a combination of classroom, laboratory, and field experiences to analyze, critique, and design alternative energy systems. Class content and activities center on renewability and sustainability for our planet. Topics covered in this course include the following types of alternative energies; solar, wind, geothermal, biomass and emerging technologies.

GENERAL/CORE 40/TC/AHD Elective

(Dual Credit IVY Tech-SUST 100-Introduction to Renewable Energy Systems)

419-**Landscape Management** – 1 credit

IDOE 5136

Grade Level: 10-11

Landscape Management is a yearlong course that provides the student with an overview of the many career opportunities in the diverse field of landscape management. Students are introduced to the procedures used in the planning and design of a landscape using current technology practices, the principles and procedures involved with landscape construction, the determination of maintenance schedules, communications, management and employability skills necessary in landscaping operations, and the care and use of equipment utilized by landscapers. Upon completion of the program plus learning and demonstrating other skills, students have the opportunity to receive an industry approved State Certificate of Mastery in Landscape Management. CORE 40/TC/AHD Elective

420 - **Horticultural Science**- 2 credits (Max 6)

DOE

5132

Recommended Grade Level: 9-12

Pre-Requisites: Introduction to Agriculture

Horticultural Science is a two semester course designed to give students a background in the field of horticulture and its many career opportunities. It addresses the biology and technology involved in the production, processing, and marketing of horticultural plants and products. Topics covered include: reproduction and propagation of plants, plant growth, growth media, management practices for field and greenhouse production, marketing concepts, production of plants of local interest, and pest management. Students participate in a variety of activities including extensive laboratory work usually in a school greenhouse.

GENERAL/CORE 40/TC/AHElective

421-Animal Science – 1 credit

IDOE 5008

422-Animal Science – 1 credit

Grade Level: 9-12

This course is a yearlong program that provides students with an overview of the field of animal science. Students participate in a large variety of activities and laboratory work including real and simulated animal science experiences and projects. Areas that the students study may be applied to both large and small animals. Topics to be addressed include: anatomy and physiology, genetics, reproduction and biotechnology, nutrition, aquaculture, careers in animal science, animal health, meeting environmental requirements of animals, and management practices for the care and maintenance of animals.

CORE 40/TC/AHD Elective

416-Supervised Agriculture Experience (SAE) – .5 credit/term

IDOE 5228

Grade Level: 9-12

Supervised Agriculture Experience (SAE) is designed to provide students with opportunities to gain experience in the agriculture field(s) in which they are interested. Students should experience and apply what is learned in the classroom, laboratory, and training site to real-life situations. Students work closely with their agricultural science and business teacher(s), parents, and/or employers to get the most out of the SAE program. This course can be offered each year as well as during the summer session. SAE may be offered as a Cooperative Education Program. Curriculum content and competencies should be varied so that school year and summer session experiences are not duplicated.

CORE 40/TC/AHD Elective

408-Plant and Soil Science – 1 credit

IDOE 5170

409-Plant and Soil Science – 1 credit

Grade Level: 10-11

Plant and Soil Science is a yearlong course that provides students with opportunities to participate in a variety of activities including laboratory work. Topics covered include: the taxonomy of plants, the various plant components and their functions, plant growth, plant reproduction and propagation, photosynthesis and respiration, environmental factors affecting plant growth, integrated pest management plants and their management, 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, grain and forage quality, cropping systems, precision agriculture, principles and benefits of global positioning systems and new technologies, harvesting, and career opportunities in the field of plant and soil science.

CORE 40/TC/AHD Elective

428-Advanced Life Science, Foods – 1 credit

IDOE 5360

429-Advanced Life Science, Foods – 1 credit

Grade Level: 9-12

Prerequisite: Biology & Chemistry

Advanced Life Science, Foods, is a standards-based, interdisciplinary science course that integrates biology, chemistry, and microbiology in an agricultural context. Students enrolled in this course formulate, design, and carry out food based laboratory and field investigations as an essential course component. Students understand how biology, chemistry, and physics principles apply to the composition of foods, food nutrition and development, food processing, and storage. Students completing this course will be able to apply the principles of scientific inquiry to solve problems related to biology, physics and chemistry the context of highly advanced agricultural applications of food.

CORE 40/TC/AHD Elective

430-Mechanical Drafting A – 1 credit

IDOE 4794

431-Mechanical Drafting B – 1 credit

Grade Level: 9-12

This is specialized course that explores technological processes and employs creative problem solving in developing, engineering, testing and communicating designs for structures.

This course is an introduction to "industry's language". Students use basic drafting tools while learning fundamentals of technical drawing. Customary and metric measurements are used while producing 3-view, isometric and section drawings. Emphasis is placed on developing a precise drawing with accurate dimensions. CORE 40/TC Elective (Ivy Tech Articulated – DSN 120 if taken during grades 11 & 12)

432-Computers in Design and Production Systems – 1 credit

IDOE 4800

433-Computers in Design and Production Systems – 1 credit

Grade Level: 10-12

Prerequisite: Design Processes

This course focuses on using computer systems in production drawings and related documentation for products and structures. Course content attempts to address major themes such as: design documentation using CAD systems; assignment involving the interface of CAD, CAM, and CIM technologies. Students further explore technical drawing. Using AUTOCAD 2000, drawings of mechanical devices are produced. This class provides students with exposure to pre-engineering and design areas. Drawings include floor plans, elevations, site plans, and section-detail plans.

(Ivy Tech Articulated – TEC 104 if taken during grades 11 & 12)

438-**Manufacturing Processes** – 1 credit

IDOE 4796

439-**Manufacturing Processes** – 1 credit

Grade Level: 9-12

This course provides a study of today's manufacturing technology and its importance to our society. Approximately 50% of the class time is devoted to "hands on" activities designed to help students gain problem-solving skills. Students will be designing and manufacturing products.

CORE 40/TC Elective

440-**Construction Processes** – 1 credit

IDOE 4792

441-**Constructions Processes** – 1 credit

Grade Level: 9-12

This class studies the exciting and expanding construction industry. The major portion of the class will be devoted to student activities and projects related to construction.

CORE 40/TC Elective

434-**Fundamentals of Engineering** – 1 credit

IDOE 4802

Grade Level: 11-12

Prerequisite: Design Processes

This course is designed to provide students interested in careers in engineering opportunities to explore various specialized fields such as civil, mechanical, and materials engineering. A focus of the class is on the functions of research, development, planning, design and production.

435-**Introduction to Engineering Design A** – 1 credit

IDOE 4812 PLTW (IED)

436-**Introduction to Engineering Design B** – 1 credit

IDOE 4802 Non-PLTW (IED)

Grade Level: 9-10

Prerequisite: Technology

Introduction to Engineering Design is 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. Only those schools having a signed agreement with the national Project Lead the Way organization can use this course title.

GENERAL/CORE 40/TC/AHD Elective

437-**Principles of Engineering A** – 1 credit

IDOE 4814 PLTW

438-**Principals of Engineering B** – 1 credit

IDOE 5644 Non-PLTW

Grade Level: 9-10

Prerequisite: Technology, Introduction to Engineering Design (Project Lead the Way)

Principles of Engineering is 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. Topics include mechanisms, energy, statics, materials, and kinematics. They develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges, document their work and communicate solutions.

GENERAL/CORE 40/TC/AHD Elective

439-**Civil Engineering and Architecture A** – 1 credit

IDOE 4820 PLTW

440-**Civil Engineering and Architecture B** – 1 credit

IDOE 5650 Non-PLTW

Grade Level: 11-12

Prerequisite: Completion of two Project Lead The Way courses

This course should introduce students to the fundamental design and development aspects of civil engineering and architectural planning activities. Application and design principles will be used in conjunction with mathematical and scientific knowledge.

Computer software programs should allow students opportunities to design, simulate, and evaluate the construction of buildings and communities. During the planning and design phases, instructional emphasis should be placed on related transportation, water resource, and environmental issues. Activities should include the preparation of cost estimates as well as a review of regulatory procedures that would affect the project design. Only those schools having a signed agreement with the national Project Lead The Way organization can use this course title.

GENERAL/CORE 40/TC/AHD Elective

441-**Engineering Design and Development A** – 1 credit

IDOE 4828 PLTW

442-**Engineering Design and Development B** – 1 credit

IDOE 5698 Non-PLTW

Grade Level: 9-12

Prerequisite: Technology, Introduction to Engineering Design (Project Lead the Way), and Digital Electronics (Project Lead the Way)

Engineering Design and Development is designed to introduce students to the fundamental aspects of engineering and engineering technology. Instruction will emphasize underlying principles of engineering processes and the development of three-dimensional solid models. Instructional activities will build skills ranging from sketching simple geometric shapes to applying a solid modeling computer software package. Students will develop critical thinking and problem-solving skills through instructional activities that pose design and application challenges for which they develop solutions. The techniques learned, and equipment used, should be state of the art and reflect equipment and processes currently being used by engineers throughout the United States.

GENERAL/CORE 40/TC/AHD Elective

443-Advanced Manufacturing I A

IDOE 5608

444-Advanced Manufacturing I B

Recommended Grade Level: Grade 11-12

Recommended Prerequisites: Introduction to Advanced Manufacturing

Credits: 1-3 credits per semester, maximum of 2 semesters, maximum of 6 credits

This course is aligned with post secondary courses for Dual Credit Advanced Manufacturing I, is a course that includes classroom and laboratory experiences in two broad areas: Industrial Technology/Software Controls and Manufacturing Trends. Industrial Technology and Software Controls covers wiring and schematic diagrams used to design, install, and repair electrical/electronic equipment such as wireless communication devices, programmable controllers. Course content will include basic theories of electricity, electronics, digital technology, and basic circuit analysis. Activities include experiences in: soldering; use of an oscilloscope, meters, signal generators and tracers; breadboarding; circuit simulation software; and troubleshooting. Understanding and using the underlying scientific principles related to electricity, electronics, circuits, sine waves, and Ohm's Law are integral to this course. Manufacturing Trends covers basic concepts in manufacturing operations and plant floor layout in the production environment. Applications of Computer Numerical Control (CNC), and lathe and turning operations are developed as a foundation for machining operations. Coordinate system concepts are introduced as relevant to machining processes, as well as fluid and mechanical power, welding, and lean manufacturing. Fluid power concepts will include hydraulic components and circuits, laws and principles, fluid power controllers, and the construction of systems. In the mechanical power portion of the course, students will learn about machine specifications, basic forces, friction, simple machines, motors, and motor controls. Students will also be introduced to lean manufacturing where they will study concepts including: lean goals, product quality, eliminating waste, cost effectiveness, lean concepts, resource planning, continuous improvement, and the various advantages of lean manufacturing. This course includes MSSC concepts required to earn MSSC certification.

GENERAL/Core 40/TC/AHD Elective

445-Advanced Manufacturing II A

IDOE 5606

446-Advanced Manufacturing II B

Recommended Grade Level: Grade 12

Recommended Prerequisites: Advanced Manufacturing I

Credits: 2-3 credits, 2 semesters maximum, maximum of 6 credits

This course is aligned with post secondary courses for Dual Credit Advanced Manufacturing II, Introduces basic blueprint reading, Computer Numerical Control (CNC) operation and the skills commonly used in the manufacturing industry. Areas of study will include: interpretation of drawing dimensions and notes to ANSI standards for machining including; Geometric Dimensioning and Tolerancing (GDT), welding, fabrication applications and inspection techniques. Students will be able to use Computer Aided Design software (CAD) to create 3D models and working drawings. Skills in the setup and operation of a CNC mill and lathe will also be acquired using multiple machine tool controllers. Other more general topics will include coordinate systems,

dimensioning, line precedence, multiview drawings, safe dress, tool paths, speed and feed calculations, and tool selection. The course also introduces robotics, automation, and Computer Integrated Manufacturing Technology (CIMT). Common types of factory automation will be identified. The course will focus on three main types of manufacturing automation including; Programmable Logic Controllers (PLC), Computer Numerically Controlled Machines (CNC), and Robotics. Topics cover robotic principles including basic theory, robot safety, robotic classifications, applications, socioeconomic impact, work cell design, robot programming (Pendant and Software Language), and sensor and actuator interfacing. Students will be required to design, program and troubleshoot computer controlled machine logic and production processes in a project oriented learning environment.

GENERAL/CORE 40/TC/AHD Elective

449 - Introduction to Construction - 1 Credit (Max of 2) IDOE 4792

Recommended Grade Level: Grade 10

Introduction to Construction is a course that will offer hands-on activities and real world experiences related to the skills essential in residential, commercial and civil building construction. During the course, students will be introduced to the history and traditions of construction trades. They student will also learn and apply knowledge of the care and safe use of hand and power tools as related to each trade. In addition, students are introduced to blueprint reading, applied math, basic tools and equipment, and safety. Students will demonstrate building construction techniques, including concrete and masonry, framing, electrical, plumbing, dry walling, HVAC, and painting as developed locally in accordance with available space and technologies. Students learn how architectural ideas are converted into projects and how projects are managed during a construction project in this course. Students study construction technology topics such as preparing a site, doing earthwork, setting footings and foundations, building the superstructure, enclosing the structure, installing systems, finishing the structure, and completing the site. GENERAL/CORE 40/TC/AHD Elective

493-Communication Systems – 1 Credit

IDOE 4780

Recommended Grade Level: 9-12

Recommended Prerequisite: Technology (ML), Technology Systems

Communication Systems is a course that specializes in how people use modern communication systems to exchange information and ideas. These systems allow people to grow intellectually, express feelings, and better understand diverse cultures. This course explores the application of the tools, materials, and techniques used to design, produce, use, and asses systems of communication. Instructional strategies introduce students to the world of communication technology through a variety of means including: presentations, discussions, and laboratory activities. Students will produce graphic and electronic media as they apply communication technologies. Most activities are designed for small group work since communication takes place between two parties or machines.

GENERAL/CORE 40/TC/AHD Elective

494-Construction Systems – 1 Credit

IDOE 4782

Recommended Grade Level: 9-12

Recommended Prerequisite: Technology (ML)

Construction Systems is a course that specializes in how people use modern construction systems and the management of resources to efficiently produce a structure on a site. Students will explore the application of tools, materials, and energy in designing, producing, using, and assessing the construction of structures. Classroom activities introduce students to the techniques used in applying construction technology to the production of residential, commercial, and industrial buildings in addition to civil structures. Students learn how architectural ideas are converted into projects and how projects are managed during a construction project in this course.

GENERAL/CORE 40/TC/AHD Elective

447-Introduction to Advanced Manufacturing and Logistics A – 1 Credit

448-Introduction to Advanced Manufacturing and Logistics B – 1 Credit

Recommended Grade Level: Grade 9-12

IDOE 4796

Introduction to Advanced Manufacturing and Logistics is a course that specializes in how people use modern manufacturing systems with an introduction to advanced manufacturing and logistics and their relationship to society, individuals, and the environment. Students apply the skills and knowledge of using modern manufacturing processes to obtain resources and change them into industrial materials, industrial products and consumer products. Students investigate the properties of engineered materials such as: metallics; polymers; ceramics; and composites. Students study six major types of material processes: casting and molding; forming; separating; conditioning; finishing; and assembling. After gaining a working knowledge of these materials, Students are introduced to advanced manufacturing, logistics, and business principles that are utilized in today's advanced manufacturing industry. Students gain a basic understanding of tooling, electrical skills, operation skills, inventory principles, MSDS's, chart and graph reading and MSSC concepts. There is also an emphasis placed on the flow process principles, material movement, safety, and related business operations. Students have the opportunity to develop the characteristics employers seek as well as skills that will help them in future endeavors.

GENERAL/CORE 40/TC/AHD Elective

465 **Architectural Drafting and Design I** -1 Credit

IDOE 5652

466 **Architectural Drafting and Design I** - 1 Credit

Architectural Drafting gives students a basic understanding of the detailing skills commonly used by drafting technicians. Areas of study include: lettering, sketching, proper use of equipment. This course includes the creation and interpretation of commonly used construction documents. Methods of geometric construction, 3-dimensional drawing techniques, and sketching will be presented as well as elementary aspects of residential design and site work. Areas of emphasis will include print reading and drawing. This course also provides students with a basic understanding of the features and consideration associated with the operation of a CAD system. Students will gain valuable hands-on experience with Auto CAD. They will be expected to complete several projects related to command topics.

GENERAL/CORE 40/TC/AHD Elective

495-**Technology Systems** – 1 Credit

IDOE 4808

Recommended Grade Level: 9-12

Recommended Prerequisite: Technology (ML)

Technology Systems is a course that focuses on the technologies used in the career pathways related to Architecture & Construction, Arts, A/V Technology & Communications, Manufacturing, Science, Technology, Engineering & Mathematics and the Transportation, Distribution, & Logistics career clusters. Instructional strategies include creative problem solving activities that address real-world problems and opportunities. Computer experiences are used to incorporate graphics, simulations, networking, and control systems. Students are also introduced to, and engaged in, investigating career opportunities within a career cluster of their choice. Systems thinking skills are used by students to study, diagram, and test a solution to a scenario related to their career interests.

GENERAL/CORE 40/TC/AHD Elective

496-**Transportation Systems** – 1 Credit

IDOE 4786

Recommended Grade Level: 9-12

Recommended Prerequisites: Technology (ML)

Transportation Systems is a course that specializes in the study of the transportation systems used to support commerce and the logistics for the efficient movement of goods and people. In this course, students will explore the systems, techniques and vehicles used to move people and cargo on land, water, air, and space. Activities allow students to understand a variety of transportation systems and investigate the energy, power and mechanical systems used to move people and products from one location to another.

GENERAL/CORE 40/TC/AHD Elective

460, 461, 462, 463-**Welding Technology I, II, III, IV**
Grade Level 9-12

IDOE 5776

Welding Technology includes classroom and laboratory experiences that develop a variety of skills detailed in American Welding Society (AWS) Entry Level Guidelines and Certifications. Areas of study include electric welding and flame and plasma cutting. Instructional activities emphasize properties of metals, safety issues, blueprint reading, electrical principles, welding symbols, and mechanical drawing through projects and exercises that teach students how to weld industrial metals in four basic welding positions. Reinforcement of mathematical skills in geometry, precision measurement, and estimation will be part of the daily instruction. Understanding the principles of metallurgy, gases, and materials science is integral to these courses.

467-**Commercial Art and Graphic Design A** – 1 credit

IDOE 5572

468-**Commercial Art and Graphic Design B** – 1 credit

Grade Level: 9-12

This is a fundamental course, which introduces students to the computer's use in graphic design. The beginning focus of the course is on basic computer terminology and use mastering fundamental skills, and developing efficient working styles. These skills are then developed by creating work with imaging, drawing, signage, and page layout.

470-**Interpersonal Relations** – 1 credit

IDOE 5364

Grade Level: 9-12

The course is designed to help the student understand and accept himself or herself, in order to better understand and accept others. Students will identify and/or establish their own values and develop goals for the future.

471-**Textiles and Fashion** – 1 credit

IDOE 5380

An introduction to textiles and fashion from the 1900's to the present. Students will research and present projects in the textile/fashion field. Students will examine different fabrics, weaves, and prints. Students will investigate what colors and styles are best for them. Hand sewing and machine sewing will be introduced. Students are responsible for all materials needed, including: scissors, pins, needles, fabric, and thread.

468-**Advanced Textiles and Fashion** – 1 credit

IDOE 5380

Grade Level: 9-12

Prerequisite: Textiles and Fashion with a C or better

Laboratory work in clothing construction accompanies the class work on textiles, clothing selection and personal appearance. Students will be introduced to different careers in the textile/fashion industry. They will also learn the proper care of fabrics. Students are responsible for the costs associated with their projects including; scissors, pins, needles, fabric, and thread.

472-Consumer Economics – 1 credit IDOE 5334
Grade Level: 9-12
Students will identify and discuss basic ideas that will prepare them to manage both human and non-human resources--money, energy, abilities and material possessions--in order to develop a satisfying way of life.

473-Nutrition and Wellness – 1 credit IDOE 5342
Grade Level: 9-12
Food preparation techniques, basic nutrition and kitchen basics are covered as the students prepare a variety of foods in the kitchen labs. Food safety practices, and sanitation are priority, with some labs on basic food preparation. Meal planning and etiquette will be introduced.

474-Housing and Interior – 1 credit IDOE 5460
Grade Level: 9-12
The course investigates the housing needs of individuals and families. It also deals with the selection and planning of housing and home furnishings with emphasis on economic, social, technological and artistic considerations.

475-Child Development & Parenting – 1 credit IDOE 5362
Grade Level: 9-12
The focus is on research-based nurturing and parenting practices that support positive development of children. Topics include: responsibilities and challenges of parenthood, human sexuality, adolescent pregnancy, prenatal development, preparation for birth, the birth process, impacts of heredity, environment, and family and societal crisis on development of the child.

477-Advanced Foods & Nutrition – 1 credit IDOE 5360
Grade Level: 9-12
Prerequisite of C- or better in Nutrition/Wellness/Child Development
This class builds upon the skills learned in Nutrition and Wellness. Will go into depth further with the different food groups and how to properly prepare each. Students will choose and prepare more complex recipes. Meal planning, presentation, and etiquette will be emphasized.

479-Advanced Child Development – 1 credit IDOE 5362
Grade Level: 10-12
Prerequisite: Child Development & Parenting with a C or better
This course addresses more complex issues of early childhood education with emphasis on physical, social, emotional, intellectual, and cultural development throughout childhood, including school age children. Topics include positive parenting and nurturing, practices that promote long-term well being of children and their families. Authentic applications are gained through field trips or school based experiences with children in locations such as preschools, elementary schools, or daycare settings.

469-Education & Early Childhood Careers – 2 credits IDOE 5412

Grade Level: 11-12

Prerequisite: Child Development and Advanced Child Development with a C or better

This course will prepare students for careers in child care and teacher assistance.

Students will gain knowledge, skills and a feeling of confidence when working with children. Students are placed in a structured preschool learning environment, in the community. Students must provide their own transportation.

(IVY Tech Articulation-ECE103 only if taken during grades 11 or 12)

480, 481, 482, 483-Fire Science (AM) – 2 credits per nine weeks IDOE 5820

404, 405, 406, 407-Fire Science (PM) – 2 credits per nine weeks

Grade Level: 11-12

This program offers many hands on activities in Laboratory techniques and crime scene procedures. The firefighting component provides opportunities to work with hoses, ropes, ladders, safety equipment and fire trucks. Students can earn a first responder medical certificate that is needed for all of the public safety professions.

454; 455; 456; 457 - Auto Service I & II – 2 credits per nine weeks IDOE 5510

(Eight Terms) Grade Level: 11-12

Prerequisite: Interview and approval by instructor.

Auto service is a two-year course that prepares the student for entry-level employment in the service trades of the automobile industry. This class will meet for three hours per day, students will receive three credits per term. Areas of instruction include: lubricating systems, cooling systems, minor and major repairs, fundamental theory, major diagnostic service, adjustment and replacement of component parts and accessories of the auto. The student should be in good health and have average mechanical ability and good reading ability. Shop courses in power mechanics, machine shop, welding and particularly electronics would be helpful to the student. Students will be required to purchase a basic set of hand tools and a toolbox. This program is approved by Indiana Vocational Technical College, Region 4. Upon satisfactory completion of the course, students may enter Indiana Vocational Technical College with advanced credit.

450; 451; 452; 453-Building Trades – 2 credits per nine weeks IDOE 5580

Grade Level: 11-12

Students are to furnish: hammer, 12' tape, apron and carpenter pencil

Objective: To teach students the necessary skills of construction such as: laying, digging and pouring foundations, laying blocks, plates and joists, subfloor, walls, doors and windows, trusses, sheeting, paper and shingle, electric and plumbing, drywall, painting, siding, finishing inside trim, safety and proper use of tools.

103; 104; 105; 106-**I.C.E.-(Interdisciplinary Co-Operative Education) Classroom** – 1 credit per nine weeks

107; 108; 109; 110-**I.C.E.-(Interdisciplinary Co-Operative Education) Work** – 1 credit per nine weeks

Grade Level: 12

IDOE 5902

Combines related instruction with paid on-the-job learning experiences consistent with the student's career objective and four-year training plan on file in the guidance office. The student attends related class (for a grade) for 5 hours per week and must train at the work site for 15 hours a week. Students should not be related to the employer, supervisor, or owner. Paycheck stubs must be submitted for verification of employment. Employers must sign and return training agreements and insurance forms. Students must complete 18 consecutive weeks. **All necessary forms MUST be completed and turned in by the first day of class. Job-hopping is not permitted and could result in the student's grade being lowered. Being fired will result in a failing grade and no credits earned.**

101; 102-**Professional Career Internship** – 2 credits per nine weeks IDOE 5256

Grade Level: 12

Students are given the opportunity to gain work experiences in their chosen career area. Internship is available only the 2nd semester. Students will participate in a workplace experience, in regularly scheduled meetings with the supervising teacher, and in workshops or seminars that assist students in making the connection between academic learning and workplace experiences.

- * A minimum of 70 hours of workplace experience is required for one credit.
- * A minimum of 15 hours of workshops, seminars and/or classroom activities is required for one credit.

101 - **Work Based Learning** – 1-3 per semester; maximum of 6 DOE Code varies
Recommended Grade Level : Grade 12

Required Pre-requisites: Preparing for College/Careers; 4 4 credits in the student's pathway.

Work Based Learning is an instructional strategy that can be implemented as a stand-alone course or a component of any CTE course that prepares students for college and career. This strategy builds students' skills and knowledge in their chose career path or furthers their study within the area of interest. A standards based training plan is developed by the student, teacher, and workplace mentor to guide the student's work based learning experiences and assist in evaluating achievement and performance, whether WBS is a stand-alone course or a component of a discipline-specific CTE course. The model approved by the state which West Central will use is the Internship model.

GENERAL/CORE 40/TC/AHD Elective

485; 486; 487; 488-**Health Science Education I and II** – 1.5 credits per nine weeks
Grade Level: 11-12 (formerly known as Health Occupations) IDOE 5282
Elective class open to both boys and girls. Health Occupations is designed to prepare students with orientation to the health field. The first term is a curriculum to the study of the human body with learning the skills to be performed with on-the-job training. The second term, the student has on-the-job training two hours per day. This training could be in a variety of medical areas including: hospital, pharmacy, veterinarian's office, dentist office, comprehensive development center, nursing home, etc. The students are to complete the entire year to receive their credits. CPR and first aid certification is obtained through this course.

489; 490; 491; 492-**Medical Terminology** – .5 credits per nine weeks IDOE 5274
Grade Level: 11-12

To be taken in conjunction with Health Occupations.

Medical Terminology is designed to prepare the student with orientation to the medical terms. The study of prefixes, suffixes, root words, and combining forms is learned, and then the student has the capability of putting these forms together to define the meaning of medical words.

400-401-402-403 – **Cosmetology** – 2 credits per term (2 credits for summer school)
Grade Level: 11-12 IDOE 5802

This program provides the students with the basic skills and related knowledge necessary to pass the State Board of Beauty Culture examination and enter employment as a cosmetologist. Students must meet a minimum of 20 hours per week (total of 1500 to complete). Class begins the summer between your 11th and 12th grade years. Students must provide their own transportation to travel daily to and from the class location at either Lafayette or Valparaiso. West Central School Corp. will pay part of your tuition to attend cosmetology. The student is responsible for the remaining costs.

501-**English 9** – 1 credit IDOE 1002

502-**English 9** – 1 credit

Grade Level: 9

English 9 students will further develop the skills taught in middle school by studying language, literature and composition. Students develop an understanding of the relationship between literature and culture. Students build the techniques of expository writing, literary analysis, and technical writing as well as sharpening skills in the writing process. Students develop oral communication skill through group and individual presentations. CORE 40/AHD

503*-**English 9 Honors** – 1 credit

IDOE 1002

504*-**English 9 Honors** – 1 credit

Grade Level: 9

Requirement: B average in English, completion of organized, standards-based portfolio; high scores on the 8th grade ISTEP, superior performance on reading comprehension/writing assessment, and teacher recommendation

The English 9 honors class is a college preparatory class, which is recommended for those who wish to earn the Academic Honors diploma. The literature portion of the class is centered around the study of the short story, novel, drama, and nonfiction.

Assignments, which encourage critical thinking skills, are included in this unit.

Composition assignments emphasize the development of the multi-paragraph paper using a variety of topics; a research paper is required. Oral communication skills are developed through the use of group and individual projects.

505-**English 10** – 1 credit

IDOE 1004

506-**English 10** – 1 credit

Grade Level: 10

Through the integrated study of language, literature, composition, and oral communication, English 10 further develops the skills learned in English 9. Reading assignments are centered around short stories, novels, drama, and nonfiction.

Composition assignments are given to allow the students to develop their skills through the writing process; a research paper is also required. Students develop oral communication skills through individual and group presentations. CORE 40/AHD

507*-**English 10 Honors** – 1 credit

IDOE 1004

508*-**English 10 Honors** – 1 credit

Grade Level: 10

Requirement: Honors English 9 with a B average or teacher recommendation.

Through the integrated study of language, literature, composition, and oral communication, English 10 further develops the skills learned in English 9. Reading assignments are centered around short stories, novels, drama, and nonfiction.

Composition assignments are given to allow the students to develop their skills through the writing process; a research paper is also required. Students develop oral communication skills through individual and group presentations. An accelerated pace and additional outside related materials distinguishes this course from English 10

509-**English 11** – 1 credit

IDOE 1006

510-**English 11** – 1 credit

Grade Level: 11

Through the integrated study of language, literature, composition, and oral communication, the students further develop the skills from English 9 & 10. The students read assignments which center around American authors beginning with the colonial time period and ending with contemporary writers. The students study a variety of genres which will allow them to develop the understanding of the relationship between literature and culture. The students complete composition assignments which build the

techniques of expository writing, literary analysis, and technical writing as well as polishing skills in the writing process. Students develop oral communication skills through group and individual presentations. Students complete an Internet project in the second term with the end product exhibiting writing and speaking communication skills.

CORE 40/AHD

511*-**English 11 Honors** – 1 credit

IDOE 1006

512*-**English 11 Honors** – 1 credit

IDOE 1006

Grade Level: 11

Requirement: Honors English 10 with a B average or teacher recommendation

Students in the English 11 honors class follow a college preparatory curriculum; students pursuing an Academic Honors diploma are encouraged to enroll in this class. Students study literature that develops an understanding of the relationship between literature and American history, primarily through the genre of the American novel. Students will write compositions that emphasize the development of academic writing skills including literary analysis, information and persuasive essay, comparative/contrast essays, and research papers. Students develop oral communications skills through the use of group and individual presentations and discussions, role playing activities, interviews, and speeches. The students may be required to purchase a research handbook.

517-**Language Arts/English Lab** – 1 to 8 credit elective course

IDOE 1010

Language Arts/English Lab provides students with individualized instruction designed to support success in completing Language Arts course work aligned with Indiana's Academic Standards to Language Arts.

GENERAL/CORE 40/AHD

519-**Library Media** – .5 credits

IDOE 1082

Grade Level: 9-12

Library Media should provide instruction and practice in using procedures based upon library science theory. Emphasis should be placed on knowledge of specific reference materials, including electronic databases, for specific research needs; and knowledge of procedures practiced in all types of libraries and other information agencies.

527-**English 12** – 1 credit

IDOE 1008

528-**English 12** – 1 credit

Grade Level: 12

Students read and understand grade-level appropriate material including informational and technical materials as well as literature including satire, parody, allegory, and pastoral narrative and recognized works from world literature. Students write to demonstrate the progression through the writing process with narrative writing and responses to literature, as well as focusing on technical writing, such as resumes and job applications. Students deliver focused and coherent presentations using gestures, tone, and vocabulary appropriate to the audience and purpose.

CORE 40/AHD

513*-Composition – 1 credit

IDOE 1090

514*-Advanced Composition – 1 credit

IDOE 1098

Grade Level: 12

Prerequisite: B average in English 11

College-bound students further develop and refine writing skills. Students write for different audiences and purposes with an emphasis on the process of writing, which includes prewriting, drafting, peer sharing, revising, proofreading, editing and publishing. Students will read and evaluate samples of well-written essays and other literature to enhance their own writing. Students will sometimes present their writing orally. During 1st term, students will practice techniques of reflective, narrative, and expository writing and review rules of usage and mechanics. During 2nd term, students refine language and style and study techniques of literary analysis and persuasion. Students study research tactics and do several research projects, using both MLA style and APA style.

CORE 40/AHD

529*-Composition—Dual Credit – 1 credit

IDOE 1124

530*-Advanced Composition—Dual Credit – 1 credit

Grade Level: 12

Prerequisite: B average in English 11

Rank in upper one-third of class

Accumulative grade point average of 3.0 or greater (on a 4.0 scale)

SAT combined score of 1500 or ACT combined score of 21 (equivalent to the old SAT 1000)

Designed to provide credit towards the Core 40 Academic Honors Diploma and/or college credit, Composition/Advanced Composition emphasizes the refinement of writing skills. Students write for a variety of audiences and purposes while utilizing the process of writing. Special attention is given to peer evaluation and the revision process. Students will read and evaluate samples of well-written essays and other literature to enhance their own writing. Students are expected to complete much of the writing outside of class. During 1st term, students will practice techniques of reflective, narrative, and expository writing. An intensive review of grammar, usage, and mechanics is also covered, along with techniques for effective sentence structure. During 2nd term, students study additional expository techniques as well as persuasion and literary analysis. Students learn research tactics and do several research projects, using both MLA style and APA style.

531 – Novels - 1 credit

DOE

1042

Recommended Grade Level: 11 or 12

Pre-Requisites: English 9 and 10

Novels, a course based on Indiana’s Academic Standards for English/Language Arts, is a study of the distinct features of the novel, such as narrative and fictional elements of setting, conflict, climax, and resolution, and may be organized by historical periods, themes, or authors. Students examine novels of a given period, such as Victorian, the Modern Period, or Contemporary Literature, and what distinguishes novels from short

stories, epics, romances, biographies, science fiction, and others. Students analyze novels by various important authors from the past and present or sets of novels from a specific era or across several eras.

Fulfills GENERAL/CORE 4/ TH/AH Diploma

532 – **Short Stories** – 1 credit

DOE 1046

Recommended Grade Level: 11 or 12

Pre-Requisites: English 9 and 10

Short Stories, a course based on Indiana’s Academic Standards for English/Language Arts, is a study of the distinct features of the short story, such as being tightly focused narrative fiction. The course may be organized by historical periods, themes, or authors. Students examine short stories with modernist and contemporary themes by a variety of authors from the perspective of audience, purpose, and historical development. Students analyze what distinguishes the short story genre from other literary genres, such as the novels, epics, romances, biographies, etc.

Fulfills GENERAL/CORE 4/ TH/AH Diploma

533 – **Technical Communications** – 1 credit

DOE

1096

Recommended Grade Level: 11 or 12

Pre-Requisites: English 9 and 10

Technical Communications, a course based on Indiana’s Academic Standards for English/Language Arts, is the study and application of the processes and conventions needed for effective technical writing-communication. Using the writing process, students demonstrate a command of vocabulary, English language conventions, research and organizational skills, an awareness of the audience, the purpose for writing, and style. TECHNICAL WRITING PROJECT: Students complete a project, such as a multi-media advertising campaign for a generic product or idea or a multi-media proposal of an action plan to implement a project or service which demonstrates knowledge, application, and writing process in the Technical Communications course content.

Fulfills GENERAL/CORE 4/ TH/AH Diploma

534 – **Etymology** – 1 credit

DOE

1060

Recommended Grade Level: 11 or 12

Pre-Requisites: 4 credits in English/Language Arts

Etymology, a language studies course based on Indiana’s Academic Standards for English/Language Arts, is the study of the derivation of English words and word families from their roots in ancient and modern languages. Students analyze meanings of English words by examining roots, prefixes, and suffixes. Students analyze the connotative and denotative meaning of words in a variety of contexts and the reasons for language change. Students write about word history and semantics in text that require etymological sensitivity, such as Renaissance poetry or works in translation. Students complete an etymology project.

Fulfills GENERAL/CORE 4/ TH/AH Diploma

525-**Theatre Arts I** – 1 Credit IDOE 4242

526-**Theatre Arts II** – 1 Credit

Grade Level: 9-12

Students read and analyze plays, create scripts and theatre pieces, conceive scenic designs, and develop acting skills. These activities incorporate elements of theatre history, culture, analysis, response, creative process, and integrated studies. Additionally, students explore career opportunities in the theatre, attend and critique theatrical productions, and recognize the responsibilities and the importance of individual theatre patrons in their community. CORE 40/AHD

610-**Integrated Mathematics I** – 1 credit IDOE 2554

611-**Integrated Mathematics I** – 1 credit

Grade Level: 9-12

Integrated Mathematics I provides a formal development of the skills and concepts necessary for students to succeed in advanced courses. In particular, the instructional program in this course provides for the use of skills in a wide range of problem-solving situations. Topics include: (1) algebra and functions, (2) geometry and measurement, (3) data analysis and statistics, (4) probability, (5) discrete mathematics, and (6) trigonometry. CORE 40/AHD

612-**Integrated Mathematics II** – 1 credit IDOE 2556

613-**Integrated Mathematics II** – 1 credit

Grade Level: 9-12

Prerequisite: Integrated Mathematics I

Integrated Mathematics II is a course that expands on the topics of Integrated Mathematics I. The instructional program in this course provides for the use of skills in a wide range of problem-solving situations. Topics include: (1) algebra and functions, (2) geometry and measurement, (3) data analysis and statistics, (4) probability, (5) discrete mathematics, and (6) trigonometry. CORE 40/AHD

614-**Integrated Mathematics III** – 1 credit IDOE 2558

615-**Integrated Mathematics III** – 1 credit

Grade Level: 9-12

Prerequisite: Integrated Mathematics II

Integrated Mathematics III is a course that expands on the topics of Integrated Mathematics II. The instructional program in this course provides for the use of skills in a wide range of problem-solving situations. Topics include: (1) number sense and computation, (2) algebra and functions, (3) geometry and measurement, (4) data analysis and statistics, (5) probability, and (6) discrete mathematics. CORE 40/AHD

621A, 622B-**Algebra I** – 2 credits IDOE 2520

621A, 622B, 623C, 624D-**Algebra I** – 2 credits (with Math Lab)

Grade Level: 9

Prerequisite: Pre-Algebra 8

The state mandates that all students must now take this course and pass an end of course exam to graduate. The school corporation requires a C- average or higher as a prerequisite for Algebra II and Geometry. Students who do not have a C- average or higher in Algebra I or Integrated Math I may be required to complete an equivalent math course (Alg I, Int Math I, Basic Skills, Math Lab).

CORE 40/AHD

631-**Algebra II** – 1 credit

IDOE 2522

632-**Algebra II** – 1 credit

Grade Level: 9-12

Prerequisite: Successful completion of Algebra I.

Algebra II is a course that extends the content of Algebra I and provides further development of the concept of a function. Topics include: (1) relations, equations, and inequalities; (2) conic sections; (3) polynomials; (4) algebraic fractions; (5) logarithmic and exponential functions; (6) sequences and series; and (7) counting principles and probability. Students will be required to take the state end of course exam for Algebra II.

CORE 40/AHD

640-**Probability and Statistics** – 1 credit

IDOE 2546

Grade Level: 11-12

Prerequisite: Algebra II with a grade average of C or better.

Probability and Statistics includes the concepts and skills needed to apply statistics techniques in the decision-making process. Topics include: (1) descriptive statistics; (2) probability; and (3) statistical inference. Practical examples based on real experimental data are used throughout. Students plan and conduct experiments or surveys and analyze the resulting data. The use of graphing calculators and computer programs is encouraged.

CORE 40/AHD

625-**Geometry** – 1 credit

IDOE 2532

626-**Geometry** – 1 credit

Grade Level: 9-12

Prerequisite: Successful completion of Algebra I.

Geometry students examine the properties of two and three-dimensional objects. Proof and logic, as well as investigative strategies in drawing conclusions, are stressed.

Properties and relationships of geometric objects include the study of (1) points, lines, angles and planes; (2) polygons, with a special focus on quadrilaterals, triangles, right triangles; (3) circles; and (4) polyhedra and other solids. Use of graphing calculators and computer drawing programs is encouraged.

CORE 40/AHD

633-Pre-Calculus/Trigonometry – 1 credit IDOE 2564

634-Pre-Calculus/Trigonometry – 1 credit

Grade Level: 11-12

Prerequisite: Geometry and Algebra II with a C+ average or better

Dual Credit Option: the student has the option to take this course as a dual credit course for university credits. Students may earn 6 credit hours from Purdue North Central.

Pre-Calculus/Trigonometry blends the concept and skills that must be mastered before enrollment in a college level calculus course. The course includes the study of (1) relations and functions, (2) exponential and logarithmic functions, (3) trigonometry in triangles, (4) trigonometric functions, (5) trigonometric identities and equations, (6) polar coordinates and complex numbers, (7) sequences and series and (8) data analysis.

Students should be advised that throughout the entire course, a strong emphasis is placed on the use of the graphing calculator. CORE 40/AHD

641-AP-Calculus AB. Advanced Placement – 1 credit

IDOE 2562

642-AP-Calculus AB. Advanced Placement – 1 credit

Grade Level: 12, except with consent of teacher

Prerequisite: Pre-Calculus with a grade average of C+ or better.

Dual Credit Option: the student has the option to take this course as a dual credit course for university credits. Students may earn 3 credit hours from Purdue North Central.

This is an Advanced Placement Calculus course and will follow the AP Calculus curriculum provided by College Board. It is designed to challenge the high achieving math student. After a brief review of selected algebraic and geometric concepts, the topics will include: (1) functions, graphs, and limits, (2) derivatives, and (3) integrals. Students should be advised that throughout the entire course, a strong emphasis is placed on the use of the graphing calculator. Near the completion of the course students will be expected to take the AP Calculus exam. CORE 40/AHD

629, 630-Mathematics Lab/Algebra I Enrichment – 1 to 8 credit elective course

IDOE 2560

Mathematics Lab provides students with individualized instruction designed to support success in completing mathematics course work aligned with Indiana's Academic Standards to Mathematics. GENERAL/CORE 40/AHD

711, 712-Boys-Physical Education I and II – 1 credit per nine weeks

713, 714-Girls-Physical Education I and II – 1 credit per nine weeks

Grade Level 9

IDOE 3542/3544

Physical education is a two term course required of all high school students. The student will be involved in a health related fitness program with emphasis placed on developing the skills necessary for a lifetime of activity. The student will apply rules and strategies for team sports, individual and dual activities, recreational games, aerobic exercise, and related fitness activities. CORE 40/AHD

715-Elective Physical Education- Individual and Dual Activities – 1 credit per nine weeks IDOE 3560

Grade Level: 11-12

Prerequisite: Successful completion of Secondary Physical Education.

The student will be involved in an in-depth, intensive study of individual and dual activities and sports, both as indoor activities and as outdoor pursuits. The student will study concepts and principles of sport and exercise and will develop and refine skills and attitudes that promote lifelong sport and recreational activities. Outdoor pursuits may require the use of facilities outside the local area.

716-Elective Physical Education- Weights and Conditioning – 1 credit per nine weeks

Grade Level: 11-12 IDOE 3560

Prerequisite: Successful completion of Secondary Physical Education.

The student will develop physical and muscular strength and endurance, flexibility and cardio-respiratory endurance through a personal program that enables them to achieve a desired level of fitness. The student will use free weights, weight machines, exercise equipment and fitness and conditioning activities. The student will be involved in outdoor pursuits in order to develop a well-rounded exercise program that can be used for a lifetime. The student is also able to use the class for rehabilitation, weight balance maintenance, and conditioning.

717-Elective Physical Education-Life Guarding (1st Term) – 1 credit IDOE 3560

Grade Level 10-12

Prerequisite: **As a prerequisite to this class, the student must be in or have passed level 5 in swimming.** Successful completion of Secondary Physical Education.

The student will be prepared to become Lifeguards. The students will have the opportunity to qualify for six certifications in this highly active class: Lifeguard Training, CPR for the Professional Rescuer, Aquatic First Aid, Preventing Disease Transmission, Oxygen Administration, and Automated External Defibrillation. Students will be given the opportunity to increase their knowledge of water related safety as well as develop endurance through water-based lessons. The students will undergo ongoing assessments including both written and performance based skill evaluation.

718-Elective Physical Education- Team Activities/Sports – 1 credit IDOE 3560

Grade Level: 11-12

Prerequisite: Successful completion of Secondary Physical Education.

The student will be involved in an in-depth study of team sports and activities with emphasis placed on advanced techniques, in depth team strategies, and advanced knowledge of the activity. The student will study the principles of sport and exercise as applied to team sports, both those that are played indoors and outdoors. The student will cover recreational sports/activities as well as competitive sports/activities. The students will also be involved in team building activities.

719-Elective Physical Education-Water Safety Instructor (4th Term) – 1 credit

Grade Level: 10-12

IDOE 3560

Prerequisite: Successful completion of Secondary Physical Education.

The American Red Cross Water Safety Instructor course is to train students to teach courses in the American Red Cross and Water Safety program by developing their understanding of how to use the course materials, how to conduct training sessions and how to evaluate participant's progress. The student will be able to demonstrate competency in many movement forms, apply movement concepts and principals to the learning and development of motor skills, exhibit a physically active lifestyle, demonstrate responsible personal and social behavior in physical activity settings. The student will be assessed by both written and performance based skill evaluation. The student must demonstrate maturity and responsibility as a part of their desire to become Water Safety Instructors.

725- Introduction to Physical Therapy – 1 credit

IDOE 5215

Recommended Prerequisite: Biology, Chemistry, Health

Introduction to Physical Therapy introduces students to careers in physical therapy, athletic training, and sports medicine. Due to the multi-disciplinary/cross training trend in health care delivery, this course will offer an overview of other allied health careers interrelated to physical therapy, such as athletic training and sports medicine. Various instructional strategies and technologies are used to teach students about career opportunities and their associated roles and responsibilities, legal and ethical issues, patient diversity, anatomy and physiology, injury mechanisms, disorders requiring physical therapy, aspects of rehabilitation, safety concerns and patient documentation. This course qualifies as a Directed Elective and Elective for the Core 40, Core 40 with Academic Honors, and Core 40 with Technical Honors Diplomas.

721-Health and Wellness Education – 1 credit

IDOE 3506

Grade Level: 9-10

Health and Wellness provides the basis to help students develop knowledge, concepts, skills, behaviors and attitudes necessary to promote health and avoid or reduce health risks. Through a variety of instructional strategies, the students will be provided the opportunity to explore the effect of health behaviors on an individual's quality of life. Students will develop an understanding of functional health information that promotes health throughout a lifetime. Students will cover the major content areas as defined by the Indiana Academic Standards for Health and Wellness. **CORE 40/AHD**

724-Current Health Issues – 1 credit

IDOE 3506

Grade Level: 11-12

Prerequisite: Health and Wellness Education

In this elective course aligned with the Indiana Academic Standards for Health and Wellness, the student will focus on emerging trends in health. Included, but not limited to, are the following areas to be covered: medical technology, health care and medical treatments, health careers, personal health, communicable and non-communicable diseases, alcohol and drug issues and mental and emotional health. The students will

help to determine the selection of topics and a variety of instructional methods will be used.

800 Science Tutorial - 1to 8 credits IDOE 3094

Recommended Grade Level: 9-12 (Must be taken concurrently with Core 40 Science Course)

Science Tutorial provides students with individualized instruction designed to support success in completing Core 40 science coursework for each year that they are enrolled in Core 40 science courses. Counts as a science elective for all diplomas.

801-Earth/Space Science – 1 credit IDOE 3044

802-Earth/Space Science – 1 credit

Grade Level: 9-10

A study of the lithosphere, atmosphere and hydrosphere of the earth as well as a study of celestial phenomena and their effects on the universe. The study will include phenomena from geology, meteorology, climatology and astronomy. The course will emphasize the study of the energy at work in forming and modifying earth materials, landforms and continents through geological time. Laboratory study will make up 40% of instructional time. Some emphasis will be on basic chemistry.

CORE 40/AHD

803 -Life Science - 1 credit

IDOE 3030

Recommended Grade Level: 9-10

Life Science is an introduction to biology course. Students develop problem-solving skills and strategies while performing laboratory and field investigations of fundamental biological concepts and principles. Students explore the functions and processes of cells within living organisms, the sources and patterns of genetic inheritance and variation leading to biodiversity, and the relationships of living organisms to each other and to the environment as a whole.

Fulfills the life science requirement for the General Diploma only or counts as an elective for the Core 40 diplomas

804 - Physical Science -1 credit

Recommended Grade Level: 9-10

IDOE 3102

Physical Science is a course in which students develop problem-solving skills and strategies while performing laboratory and field investigations of fundamental chemical, physical, and related Earth and space science concepts and principles that are related to students' interests and that address everyday problems. Students enrolled in Physical Science will explore the structure and properties of matter, the nature of energy and its role in chemical reactions and the physical and chemical laws that govern Earth's interconnected systems and forces of nature.

Fulfills the life science requirement for the General Diploma only or counts as an elective for the Core 40 diplomas

805-**Biology I** – 1 credit

IDOE 3024

806-**Biology I** – 1 credit

Grade Level: 9-10

This course introduces students to the study of life sciences and the dependent relationships of all living things. At the minimum students will explore such topics as: cytology, mitosis and meiosis, genetics, stem cell research, evolution, and microbiology. The relationship between various organisms and their environments will also be studied. Extensive laboratory activities accompany these areas as well as dissection of the earthworm and frog (50% of class time is spent in the laboratory).

CORE 40/AHD Life Science

809-**Anatomy & Physiology** – 1 credit

IDOE 5376

810-**Anatomy & Physiology** – 1 credit

Prerequisite: Biology I

Recommended: Basic Chemistry

Description: Anatomy and Physiology is a course in which students investigate and apply concepts associated with human anatomy and physiology. Concepts covered include the process of homeostasis and the essentials of human function at the level of genes, cells, tissues, and organ systems. Students will understand the structure, orientation, organization, and function of the various components of the healthy human body in order to apply this knowledge in all health-related fields. The course will include a careful dissection of the fetal pig and a mammalian heart. One or two labs on urinalysis will also be performed as well as a demonstration of an EKG.

CORE 40/AHD Life Science

821-**Integrated Chemistry** – 1 credit

IDOE 3108

Grade Level: 10-12

Prerequisite: Algebra I

Integrated Chemistry is an introductory course to the principles of chemistry. Topics include the scientific method, states of matter, atomic structure, the periodic table, structure of matter, chemical reactions, acids, bases and solutions. Students explore the concepts through a combination of lecture, discussion, demonstration, and laboratory activities. Although the course is primarily conceptual in nature, students will be required to perform basic calculations as well.

CORE 40/AHD Physical Science

822-**Integrated Physics** – 1 credit

IDOE 3108

Grade Level: 10-12

Prerequisite: Algebra I

Integrated Physics is an introductory course to the principles of physics. Topics include motion, forces, work, power, energy, heat, temperature, waves, and electricity. Students explore the concepts through a combination of lecture, discussion, demonstration, and laboratory activities. Although the course is primarily conceptual in nature, students will be required to perform basic calculations as well.

CORE 40/AHD Physical Science

823-**Chemistry I A** – 1 credit

IDOE 3064

824-**Chemistry I B** – 1 credit

Grade Level: 10-12

Prerequisite: Algebra II with a B or better or Administration/Guidance Counselor recommendation

Chemistry I is a two-term, first-year course of the principles of chemistry. It is more conceptually and mathematically thorough than Integrated Chemistry and is intended as a college preparatory course: for example, if the student plans on taking Chemistry in college. Topics include stoichiometry, chemical reactions, aqueous solutions, thermochemistry, atomic structure, the periodic table, bonding, molecular geometry, gases and nuclear chemistry. Students explore the concepts through a combination of lecture, discussion, demonstration, and laboratory activities.

CORE 40/AHD Physical Science

825*-**AP Chemistry A** – 1 credit

IDOE 3060

826*-**AP Chemistry B** – 1 credit

Grade Level: 11-12

Prerequisites: Algebra II with a B or better, Chemistry I with a B or better

AP Chemistry is a two-term course that prepares students for the Advanced Placement (AP) Chemistry exam, which is administered toward the end of the second term. The curriculum builds upon the concepts learned in Chemistry I while introducing others. Additional topics include intermolecular forces, states of matter, kinetics, equilibrium, thermodynamics, electrochemistry, and organic chemistry. The concepts are generally abstract and mathematically rigorous; students need to be skilled at algebra. Dual emphasis is placed upon laboratory activities as well as conceptual knowledge, since many of the post secondary institutions that award AP credit also require an assessment of the student's competency in the laboratory.

CORE 40/AHD Physical

Science

829-**Physics A** – 1 credit

IDOE 3084

830-**Physics B** – 1 credit

Grade Level 11-12

Prerequisites: NO requirement of Chemistry I being completed first.

Physics is a two-term, first-year course of the principles of physics. It is more thorough than Integrated Physics and is intended for students who intend to pursue a college degree. Students need a strong background in mathematics, as they will work with advanced topics such as the algebraic manipulation of expressions, trigonometry, logarithms, and exponents. Topics include motion, kinematics, forces, linear momentum, gravitation, work, energy, power, waves, sound, electricity, magnetism, light, and optics. Students explore the concepts through a combination of lecture, discussion, demonstration, and laboratory activities.

CORE 40/AHD Physical Science

911-World History and Civilization – 1 credit

IDOE 1548

912-World History and Civilization – 1 credit

Grade Level: 9-10

World History emphasizes events and developments in the past that greatly affected large numbers of people across broad areas and that significantly influenced peoples and places in subsequent eras. Key events related to people and places as well as transcultural interaction and exchanges are examined in this course. Students are expected to compare and contrast events and developments involving diverse peoples and civilizations in different regions of the world. They will examine examples of continuity and change, universality and particularity, and unity and diversity among various peoples and cultures from the past to the present. Students are also expected to practice skills and process of historical thinking and research and apply content knowledge to the practice of thinking and inquiry skills and processes. There will be continuous and pervasive interactions of processes and content, skills and substance, in the teaching and learning of history.

GENERAL/CORE 40/TC/AHD Social Studies

914-Current Problems, Issues and Events – 1 credit

IDOE 1512

Grade Level: 10-11

Current Problems, Issues, and Events provides opportunities to apply techniques of investigation and inquiry to the study of significant problems or issues. Students develop competence in: (1) recognizing cause and effect relationships, (2) recognizing fallacies in reasoning and propaganda devices, (3) synthesizing knowledge into useful patterns, (4) stating and testing hypotheses, and (5) generalizing based on evidence. Problems or issues selected should have contemporary historical significance and should be studied from the viewpoint of the social science disciplines. Community service programs, such as internships or other service experiences within the community, might be included.

CORE 40/AHD Elective

931-U.S. History – 1 credit

IDOE 1542

932-U.S. History – 1 credit

Grade Level: 11

United States History is a two-semester course. Students will review and identify events, persons, and movements in the early development of the nation. Students will trace and analyze chronological periods, key events, people and groups with political, economic, social and cultural influences on state and national development in the nineteenth, twentieth, and twenty-first centuries.

CORE 40/AHD

940-Government – 1 credit

IDOE 1540

Grade Level: 11-12

Government provides a framework for understanding the purposes, principals, and practices of representative democracy in the United States. Students will understand the nature of citizenship, politics, and government when they understand their rights and responsibilities as citizens. Students examine how the constitution protects individual rights and provides the structures and functions for various levels of government affecting their lives.

CORE 40/AHD

941-**Psychology** – 1 credit

IDOE 1532

Grade Level: 11- 12

Psychology is the study of mental processes and behavior. Students will examine the scientific area of research methods and ethical considerations. Developmental psychology takes a life span approach to physical, cognitive, language, emotional, social and moral development. Personality, assessment and mental health topics include psychological disorders, treatment, personality and assessment. Biological basis focuses on the way the brain and nervous system functions, including topics of sensation, perception, motivation, and emotion.

CORE 40/AHD

942-**Sociology** – 1 credit

IDOE 1534

Grade Level: 11-12

Sociology provides opportunity for students to study human behavior from a group perspective. Students will describe the development of sociology as a social science, and identify methods and strategies of research. Students will examine the influence of culture on group behavior, as well as the impact of groups and social institutions on group behavior.

CORE 40/AHD

943-**Economics** – 1 credit

IDOE 1514

Grade Level: 11-12

Economics is a one-semester course, and is required for all students pursuing the Academic Honors Diploma or Core 40 Diploma. Students will explain that because resources are limited, people must make choices in all aspects of daily life and demonstrate an understanding of the role of supply, demand, prices, and profits play in a market economy. Students will examine market structures, business organization, and investment options.

CORE 40/AHD

950-**Early Entry**

Grade Level: 12

Students may enroll in an accredited post secondary institution to begin taking post secondary classes. Students could receive a shortened schedule to allow time for travel to the post secondary institution. Dual credit for the post secondary classes is not normally given but may be granted in unusual situations. Any costs associated with early entry are the responsibility of the student. Students must provide their own transportation.

951-**Distance Learning**

Grade Level: 10-12

A fee will be charged.

Students may enroll in courses not offered at West Central through a variety of sources. Some classes are offered through satellite hook-ups, some classes are on videotapes, some are offered over the Internet, and others are offered by correspondence via the mail. The amount of high school credits granted is arranged on an individual basis.

952-Double-Up

Grade Level: 11-12

Students may enroll in an accredited post secondary institution to begin taking post secondary classes. Students could receive a shortened schedule to allow time for travel to the post secondary institution. Any costs associated with Double-Up are the responsibility of the student. Students might have to provide their own transportation.

960 - College-Entrance Preparation - 1 credit

DOE 0532

Recommended Grade Level: 1st Semester Grade 11 or 2nd Semester Grade 10

College-Entrance Preparation utilizes individual student score reports from the PSAT or Accuplacer to prepare students for the SAT, ACT, Accuplacer and/or Compass college readiness assessments. Based on student score reports, students will receive targeted instruction to strengthen their foundations in critical reading, writing, mathematics, and science sections of college admission and placement exams. As appropriate, the course will also encompass test-taking strategies to prepare students for success on a high-stakes assessment. Teachers are encouraged to use a curriculum with longitudinal, successful results. Course may also include college selection and application units, to better prepare students for overall college-readiness. **GENERAL/Core 40/TC/AHD Elective**

496-Special Vocational Program I

Grade Level: 11-12

11th and 12th grade special needs students in this course will demonstrate skills needed in seeking, securing and maintaining employment. The students will learn problem solving skills and ways to manage personal finances. In addition, upon successful completion of first term work, students may be placed in a daily on-campus job. Students will earn one credit for this work experience.

170; 171-Education Professions I A & B (Formerly Cadet Teaching) – (2-4 credits)

Grade Level: 11-12 IDOE 5408

Recommended Prerequisites: Orientation to Life and Careers, Child Development and Parenting, Advanced child development, and Nutrition and Wellness

Education Professions prepares students for employment in education and related careers and provides the foundation for study in higher education that leads to teaching and other education-related careers. A project-based approach that utilizes higher order thinking, communication, leadership, and management processes is recommended in order to integrate suggested topics into the study of education professions. The course of study includes, but is not limited to: planning and guiding developmentally appropriate activities for school-age children; developmentally appropriate practices of guidance and discipline; application of basic health and safety principles when working with children; overview of management and operation of teaching/learning centers in educational settings; Indiana state regulations and licensing requirements related to school-age children; and employability skills. Intensive laboratory or field experiences in one or

more classroom settings, resumes, and career portfolios are required components. A standards-based plan for each student guides the student's laboratory/field experiences. Students are monitored in their laboratory/field experiences by the Education professions teacher. Articulation with post secondary programs is encouraged. This course is recommended for students with interests in education and training career paths and provides the foundation for study in higher education that leads to careers in education.

GENERAL/CORE 40/AHD

180-Basic Skills Development-Language Arts – .5 credits per nine weeks IDOE 0500

181-Basic Skills Development-Mathematics – .5 credits per nine weeks

Grade Level: 9-12

Basic Skills Development is a multidisciplinary course which provides students continuing opportunities to develop the basic skills such as reading, writing, listening, speaking, mathematical computation, and problem-solving that are essential for high school course work achievement and success on mandated state testing. Determination of the skills to be emphasized in this course will be based on the corrective developmental provisions of either the School Improvement Plan or Individualized Education Programs. Skills selected for developmental work will provide students with the ability to continue to learn in a range of different life situations.

118 – Cadet Teaching Experience 1 per semester; up to 4

DOE 0502

Recommended Grade Level: 11 or 12

Prerequisites: None

This elective course provides students in grades 11 or 12 with organized exploratory teaching experiences in grades K-9. All teaching experiences should be preplanned by the high school Cadet Teaching Experience teacher-trainer and the cooperating teacher(s) who are supervising prospective teachers and providing them with pre-training experiences in one or more classes. 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, and (5) instructional experiences. Study topics and background reading provide the cadets with information concerning the teacher profession and the nature of the cadet teachers' assignments. Evaluation is based upon the cadet teachers' cooperation, day-to-day practical performance, and class work including the cadets' potential ability to teach.

GENERAL/CORE 40/TC/AHElective

190-Peer Tutoring – 1 credit

IDOE 0520

Grade Level: 11-12

The elective multidisciplinary Peer Tutoring course will provide 11th or 12th grade students with organized exploratory experience to assist students in kindergarten through grade twelve with their studies and personal growth and development through a helping relationship. The course will provide opportunities for the students to develop a basic understanding of individual differences and to explore career options in related fields. The course will provide a balance of class work relating to the development and use of

listening, communication, facilitation, and decision-making. Students may Peer Tutor four times total and not more than once per nine weeks.

Driver Education – 0 credits

IDOE 3520

Driver Education is a non-credit course offered only during the summer and as a part of the extended school day during the school year. Thirty hours of classroom and six hours of driving are required to take a road test either through a commercial driver training school, high school driver education program, or at a local license branch.