ARGOS
HIGH SCHOOL

COURSE DESCRIPTION GUIDE

2022-2023

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CAREER TECHNICAL EDUCATION COURSES BY CAREER CLUSTER

ADVANCED MANUFACTURING

7108 - Principles of Advanced Manufacturing - PRIN ADV MAN - Principles of Advanced Manufacturing is a course that includes classroom and laboratory experiences in Industrial Technology and Manufacturing Trends. Domains include safety and impact, manufacturing essentials, lean manufacturing, design principles, and careers in advanced manufacturing. Hands-on projects and team activities will allow students to apply learning on the latest industry technologies. Work-based learning experiences and industry partnerships are highly encouraged for an authentic industry experience. •Recommended Grade(s): 9, 10, 11 •Required Prerequisites: none •Recommended Prerequisites: Introduction to Advanced Manufacturing •Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum •Counts as a directed elective or elective for all diplomas

7103- Advanced Manufacturing Technology - ADV MAN TECH - Advanced Manufacturing Technology introduces manufacturing processes and practices used in manufacturing environments. The course also covers key electrical principles, including current, voltage, resistance, power, inductance, capacitance, and transformers, along with basic mechanical and fluid power principles. Topics include, types of production, production materials, machining and tooling, manufacturing planning, production control, and product distribution will be covered. Students will be expected to understand the product life cycle from conception through distribution. This course also focuses on technologies used in production processes. Basic power systems, energy transfer systems, machine operation and control will be explored. This course will use lecture, lab, online simulation and programming to prepare High School Course Titles and Descriptions 2022-2023 232 students for Certified Production Technician Testing through Manufacturing Skill Standards Council (MSSC). •Recommended Grade(s): 10, 11, 12 •*Required Prerequisites*: Principles of Advanced Manufacturing •Recommended Prerequisites: none •Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum •Counts as a directed elective or elective for all diplomas

7106 - Mechatronics Systems MECH SYS - Mechatronics Systems covers the basic electrical and mechanical components and functions of a complex mechatronics system. Through a systems approach, students will learn about mechanical components which lead and support the energy through a mechanical system to increase efficiency and to reduce wear and tear. By understanding the complete system, students will learn and apply troubleshooting strategies to identify, localize and (where possible) to correct malfunctions. Preventive maintenance of mechanical elements and electrical drives as well as safety issues within the system will also be discussed. •Recommended Grade(s): 10, 11, 12 •*Required Prerequisites: Principles of Advanced Manufacturing; Advanced Manufacturing Technology* •Recommended Prerequisites: none •Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum •Counts as a directed elective or elective for all diploma

7109- Principles of Precision Machining PRIN PREC MACH - Principles of Precision Machining will provide students with a basic understanding of the processes used to produce industrial goods. Classroom instruction and labs will focus on shop safety, measurement, layout, blueprint reading, shop math, metallurgy, basic hand tools, milling, turning, grinding, and sawing operations. This course prepares the student for the optional National Institute for Metalworking Skills (NIMS) Measurement, Materials, & Safety certification that may be required for college dual credit. High School Course Titles and Descriptions 2022-2023 235 •Recommended Grade(s): 9, 10, 11 •Required Prerequisites: none •Recommended Prerequisites: Introduction to Advanced Manufacturing •Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum •Counts as a directed elective or elective for all diplomas

7105 - Precision Machining Fundamentals MACH FUN - Precision Machining Fundamentals will build a foundation in conventional milling and turning. Students will be instructed in the classroom on topics of shop safety, theory, industrial terminology, and calculations. Lab work will consist of the setup and operation of vertical and/or horizontal milling machines and engine lathes. This course prepares the student for the optional National Institute for Metalworking Skills (NIMS) Milling I certification that may be required for college dual credit. •Recommended Grade(s): 10, 11, 12 •*Required Prerequisites: Principles of Precision Machining* •Recommended Prerequisites: none •Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum •Counts as a directed elective or elective for all diplomas •Qualifies as a quantitative reasoning course •It is recommended that Precision Machining program of study be taught in a 2-3 period block of time. VU dual credit requires that Precision Machining Fundamentals and Advanced Precision Machining be completed concurrently

7107 - Advanced Precision Machining PREC MACH - Advanced Precision Machining will build upon the Turning and Milling processes learned in Precision Machining Fundamentals and will build a foundation in abrasive process machines. Students will be instructed in the classroom on topics of shop safety, theory, industrial terminology, and calculations associated with abrasives. Lab work will consist of the setup and operation of bench grinders and surface grinders. Additionally students will be introduced to Computerized Numeric Controlled (CNC) setup, operations and programming. This course prepares the student for the optional National Institute for Metalworking Skills (NIMS) Grinding I certification that may be required for college dual credit. •Recommended Grade(s): 10, 11, 12 •*Required Prerequisites: Principles of Precision Machining; Precision Machining Fundamentals* •Recommended Prerequisites: none •Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum •Counts as a directed elective or elective for all diplomas •Qualifies as a quantitative reasoning course •It is recommended that Precision Machining program of study be taught in a 2-3 period block of time. •VU dual credit requires that Precision Machining Fundamentals and Advanced Precision Machining be completed concurrently

7110 - Principles of Welding Technology PRIN WEL TCH - Principles of Welding Technology includes classroom and laboratory experiences that develop a variety of skills in oxy-fuel cutting and basic welding. This course is designed for individuals who intend to make a career as a Welder, Technician, Designer, Researcher, or Engineer. Emphasis is placed on safety at all times. OSHA standards and guidelines endorsed by the American Welding Society (AWS) are used. 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 and be prepared for postsecondary and career success. •Recommended Grade(s): 9, 10, 11 •Required Prerequisites: none •Recommended Prerequisites: Introduction to Advanced Manufacturing •Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum •Counts as a directed elective or elective for all diplomas

7111 - Shielded Metal Arc Welding SHLD MAW - Shielded Metal Arc Welding involves the theory and application of the Shielded Metal Arc Welding process. Process theory will include basic electricity, power sources, electrode selection, and all aspects pertaining to equipment operation and maintenance. Laboratory welds will be performed in basic weld joints with a variety of electrodes in the flat, horizontal and vertical positions. Emphasis will be placed on developing the basic skills necessary to comply with AWS industry standards. •Recommended Grade(s): 10, 11, 12 •*Required Prerequisites: Principles of Welding Technology* •Recommended Prerequisites: none •Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum •Counts as a directed elective or elective for all diplomas.

7101- Gas Welding Processes GAS WEL PRC - Gas Welding Processes is designed to cover the operation of Gas Metal Arc Welding (MIG) equipment. This will include all settings, adjustments and maintenance needed to weld with a wire feed system. Instruction on both short-arc and spray-arc transfer methods will be covered. Tee, lap, and open groove joints will be done in all positions with solid, fluxcore, and aluminum wire. Test plates will be made for progress evaluation. Schools may choose to offer the course as a comprehensive MIG Welding course or a combination of introductory MIG and TIG Welding operations. •Recommended Grade(s): 10, 11, 12 •*Required Prerequisites: Principles of Welding Technology* •Recommended Prerequisites: none •Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum •Counts as a directed elective or elective for all diplomas •Schools may choose to cover both introductory MIG and TIG Welding. This configuration is available for dual credit through ITCC.

AGRICULTURE

7117- Principles of Agriculture PRIN AG - Principles of Agriculture is a two semester course that will cover the diversity of the agricultural industry and agribusiness concepts. Students will develop an understanding of the role of agriculture in the United States and globally. Students will explore Agriculture, Food, and Natural Resource (AFNR) systems related to the production of food, fiber and fuel and the associated health, safety and environmental management systems. Topics covered in the course range from animals, plants, food, natural resources, ag power, structures and technology, and agribusiness. Participation in FFA and Supervised Agricultural Experiences (SAE) will be an integral part of this course in order to develop leadership and career ready skills. •Recommended Grade(s): 9, 10, 11 •Required Prerequisites: none •Recommended Prerequisites: Introduction to Agriculture, Food and Natural Resources •Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum •Counts as a directed elective or elective credits for all diplomas.

5008 - Animal Science ANML SCI - Animal Science is a two semester course that provides students with an overview of the animal agriculture industry. Students participate in a large variety of activities and laboratory work including real and simulated animal science experiences and projects. All areas that the students study may be applied to both large and small animals. Topics to be covered in the course include: history and trends in animal agriculture, laws and practices relating to animal agriculture, comparative anatomy and physiology of animals, biosecurity threats and interventions relating to animal and human safety, nutrition, reproduction, careers, leadership, and supervised agricultural experiences relating to animal agriculture. •Recommended Grade(s): 10, 11, 12 •Required Prerequisites: Principles of Agriculture* •Recommended Prerequisites: Introduction to Agriculture, Food and Natural Resources •Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum •Counts as a directed elective or elective for all diplomas •Fulfills a science course requirement for all diplomas •Fulfills a physical science requirement for General Diploma •*Principles course is not required until 2024-25 school year because this course is included in Perkins V pathways.

5170 - Plant and Soil Science PLT SL SCI - Plant and Soil Science is a two semester course that provides students with opportunities to participate in a variety of activities including laboratory and field work. Coursework includes High School Course Titles and Descriptions 2022-2023 242 hands-on learning activities that encourage students to investigate areas of plant and soil science. Students are introduced to the following areas of plant and soil science: plant growth, reproduction and propagation, photosynthesis and respiration, diseases and pests of plants and their management, biotechnology, the basic components and types of soil, soil tillage, and conservation. •Recommended Grade(s): 10, 11, 12 •Required Prerequisites: Principles of Agriculture* •Recommended Prerequisites: Introduction to Agriculture, Food and Natural Resources •Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum •Counts as a directed elective or elective for all diplomas •Fulfills a science course requirement for all diplomas •Fulfills a Physical Science requirement for the general diploma •*Principles course is not required until 2024-25 school year because this course is included in Perkins V pathways.

5074 Advanced Life Science, Plants and Soils (L) ALS PLT/SL Advanced Life Science: Plants and Soils is a two semester course that provides students with opportunities to participate in a variety of activities including laboratory work. Students study concepts, principles, and theories associated with plants and soils. Knowledge gained enables them to better understand the workings of agricultural and horticultural practices. They recognize how plants are classified, grow, function, and reproduce. Students explore plant genetics and the use of plants by humans. They examine plant evolution and the role of plants in ecology. Students investigate, through laboratories and fieldwork, how plants function and how soil influences plant life. •Recommended Grade(s): 11, 12 •Required Prerequisites: Principles of Agriculture* •Recommended Prerequisites: Introduction to Agriculture, Food and Natural Resources; Plant and Soil Science; Biology; Chemistry •Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum •Counts as an elective or directed elective for all diplomas. •Fulfills a science requirement for all diplomas. •Qualifies as a quantitative reasoning course •*Principles course is not required until 2024-25 school year because this course is included in Perkins V pathways

5070 - Advanced Life Science, Animals (L) - ALS ANIM L - Advanced Life Science: Animals is a two semester course that provides students with opportunities to participate in a variety of activities including laboratory work. Students will explore concepts related to history and trends in animal agriculture as related to animal welfare, husbandry, diseases and parasites, laws and practices relating to handling, housing, environmental impact, global sustainable practices of animal agriculture, genetics, breeding practices, biotechnology uses, and comparative knowledge of anatomy and physiology of animals used in animal agriculture. •Recommended Grade(s): 11, 12 •Required Prerequisites: Principles of Agriculture*; or Principles of Veterinary Science* •Recommended Prerequisites: Introduction to Agriculture, Food and Natural Resources; Animal Science; Biology; Chemistry; Integrated Chemistry Physics •Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum •Counts as an elective or directed elective for all diplomas. •Fulfills a science requirement for all diplomas. •Qualifies as a quantitative reasoning course •*Principles course is not required until 2024-25 school year because this course is included in Perkins V pathways.

5102 - Food Science - FOOD SCI Food Science is a two semester course that provides students with an overview of food science and the role it plays in the securing of a safe, nutritious, and adequate food supply. A project based approach is utilized in this course, along with laboratory, team building, and problem solving activities to enhance student learning. Students are introduced to the following areas of food science: food processing, food chemistry and physics, nutrition, food microbiology, preservation, packaging and labeling, food commodities, food regulations, issues and careers in the food science industry. •Recommended Grade(s): 10, 11, 12 •Required Prerequisites: Principles of Agriculture* •Recommended Prerequisites: Introduction to Agriculture, Food and Natural Resources •Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum •Counts as a directed elective or elective for all diplomas. •Fulfills a Life Science or Physical Science requirement for the General Diploma. •*Principles course is not required until 2024-25 school year because this course is included in Perkins V pathways.

5132 - Horticultural Science - HORT SCI - Horticulture Science is a two semester course that provides students with a background in the field of horticulture. Coursework includes hands-on activities that encourage students to investigate areas of horticulture as it relates to the biology and technology involved in the production, processing, and marketing of horticultural plants and products. Students are introduced to the following areas of horticulture science: reproduction and propagation of plants, plant growth, growth-media, management practices for field and greenhouse production, marketing concepts, production of plants of local interest, greenhouse management, floral design, and pest management. Students participate in a variety of activities including extensive laboratory work usually in a school greenhouse. •Recommended Grade(s): 10, 11, 12 •Required Prerequisites: Principles of Agriculture* •Recommended Prerequisites: Introduction to Agriculture, Food and Natural Resources •Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum •Counts as a directed elective or elective for all diplomas. •Fulfills a Life Science or Physical Science requirement for the General Diploma •*Principles course is not required until 2024-25 school year because this course is included in Perkins V pathways.

7115 - Landscape and Turf Management - LAND TUR MAN - Landscape and Turf Management is a two semester course that provides the student with an overview of the many career opportunities in the diverse field of landscape and turf 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, and management skills necessary in landscaping operations, and the care and use of equipment utilized by landscapers. Upon completion of the program, students have the opportunity to become Indiana Landscape Industry Certified through a state approved program. •Recommended Grade(s): 10, 11, 12 •Required Prerequisites: Principles of Agriculture •Recommended Prerequisites: Introduction to Agriculture, Food and Natural Resources •Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum •Counts as a directed elective or elective credits for all diplomas

7114 - Greenhouse and Soilless Production - GRN S PROD - Greenhouse and Soilless Production is a two semester course that provides an overview of structural designs and uses of enclosed structures (greenhouses) to grow various plants and food. The course will focus on discussing different types of enclosed structures, management systems, and growing systems used to produce plants and food. The course will also present an overview of soilless growing systems such as hydroponics, aquaponics, aeroponics and fogponics. Students will utilize the school greenhouse as part of this course. •Recommended Grade(s): 10, 11, 12 •Required Prerequisites: Principles of Agriculture High School Course Titles and Descriptions 2022-2023 245 •Recommended Prerequisites: Introduction to Agriculture, Food and Natural Resources •Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum •Counts as a directed elective or elective credits for all diplomas.

5180 - Natural Resources NAT RS - Natural Resources is a two semester course that provides students with a background in environmental science and conservation. Course work includes hands-on learning activities that encourage students to investigate areas of environmental concern. Students are introduced to the following areas of natural resources: soils, the water cycle, air quality, outdoor recreation, forestry, minerals, interrelationships between humans and natural systems, wetlands, wildlife, safety, careers, leadership, and supervised agricultural experience programs. •Recommended Grade(s): 10, 11, 12 •Required Prerequisites: Principles of Agriculture* •Recommended Prerequisites: Introduction to Agriculture, Food and Natural Resources •Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum •Counts as an elective or directed elective for all diplomas. •Fulfills a science requirement for all diplomas. •*Principles course is not required until 2024-25 school year because this course is included in Perkins V pathways

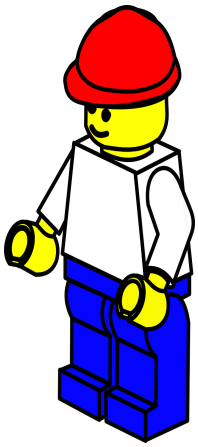
5229 - Sustainable Energy Alternatives - SUS NRG - Sustainable Energy Alternatives broadens a student's understanding of environmentally friendly energies. In this course students will use a combination of classroom, laboratory, and field experiences to analyze, critique, and design alternative energy 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 High School Course Titles and Descriptions 2022-2023 248 emerging technologies. Leadership development, supervised agricultural experiences, and career exploration opportunities are explored in the field. Sustainable energy is also included. •Recommended Grade(s): 11, 12 •Required Prerequisites: Principles of Agriculture* •Recommended Prerequisites: Introduction to Agriculture, Food and Natural Resources •Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum •Fulfills a science course requirement for all diplomas •Counts as a directed elective or elective for all diplomas •*Principles course is not required until 2024-25 school year because this course is included in Perkins V pathways.

ARCHITECTURE AND CONSTRUCTION

7130 - Principles of Construction Trades PRIN CON TR - Principles of Construction Trades prepares students with the basic skills needed to continue in a construction trade field. Topics will include an introduction to the types and uses for common hand and power tools, learn the types and basic terminology associated with construction drawings, and basic safety. Additionally students will study the roles of individuals and companies within the construction industry and reinforce mathematical and communication skills necessary to be successful in the construction field. •Recommended Grade(s): 9, 10, 11 •Required Prerequisites: none •Recommended Prerequisites: none •Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum •Counts as a directed elective or elective for all diplomas

7123 - Construction Trades: General Carpentry CON TRD GC - Construction Trades: General Carpentry builds upon the skills learned in the Principles of Construction Trades and examines the basics of framing. This includes studying the procedures for laying out and constructing floor systems, wall systems, ceiling joist and roof framing, and basic stair layout. Additionally, students will be introduced to building envelope systems. •Recommended Grade(s): 10, 11, 12 •Required Prerequisites: Principles of Construction Trades; or Principles of Architecture, Engineering and Construction •Recommended Prerequisites: none •Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum •Counts as a directed elective or elective for all diplomas

7122 - Construction Trades: Framing and Finishing CON TRD FR FIN - Construction Trades: Framing and Finishing prepares students with advanced framing skills along with interior and exterior finishing techniques. Topics include roofing applications, thermal and moisture protection, exterior finishing, cold-formed steel framing, drywall installation and finishing, doors and door hardware, suspended ceilings, window, door, floor, and ceiling trim, and cabinet installation. •Recommended Grade(s): 10, 11, 12 •Required Prerequisites: Principles of Construction Trades; Construction Trades: General Carpentry •Recommended Prerequisites: none •Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum •Counts as a directed elective or elective for all diplomas



ARTS, AV TECH, & COMMUNICATIONS

7140 - Principles of Digital Design PRIN DIG DES - Principles of Digital Design introduces students to fundamental design theory. Investigations into design theory and color dynamics will provide experiences in applying design theory, ideas and creative problem solving, critical peer evaluation, and presentation skills. Students will have the opportunity to apply the design theory through an understanding of basic photographic theory and technique. Topics will include image capture, processing, various output methods, and light. •Recommended Grade(s): 9, 10, 11 •Required Prerequisites: none •Recommended Prerequisites: none •Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum •Counts as a directed elective or elective for all diplomas

7141 - Digital Design Graphics DIG DES GRAPH - Digital Design Graphics will help students to understand and create the most common types of computer graphics used in visual communications. Skills are developed through work with professional vector-based and page layout software used in the industry. Additionally, students will be introduced to a full range of image input technology and manipulation including conventional photography, digital imaging, and computer scanners. Students will learn to communicate concepts and ideas through various imaging devices. •Recommended Grade(s): 10, 11, 12 •Required Prerequisites: Principles of Digital Design •Recommended Prerequisites: none •Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum •Counts as a directed elective or elective for all diplomas

5550 - Graphic Design and Layout GRAPH DES LT - Graphic Design and Layout teaches design process and the proper and creative use of type as a means to develop effective communications for global, corporate and social application. Students will create samples for a portfolio, which may include elements or comprehensive projects in logo, stationery, posters, newspaper, magazine, billboard, and interface design. •Recommended Grade(s): 11, 12 •Required Prerequisites: Principles of Digital Design; Digital Design Graphics •Recommended Prerequisites: none •Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum •Counts as a directed elective or elective for all diplomas •Principles course is not required until 24-25 school year because this course is included in Perkins V pathways. •Schools wishing to offer this course for multiple credits should utilize Next Level Programs of Study courses.

7139 - Principles of Broadcasting - PRIN BROAD - The purpose of the Principles of Broadcasting course is to provide entry-level fundamental skills for students who wish to seek or pursue opportunities in the field of broadcasting or mass media. Students will explore the technical aspects of audio and sound design for radio production and distribution, as well as, the technical aspects of video production and distribution. •Recommended Grade(s): 9, 10, 11 •Required Prerequisites: none •Recommended Prerequisites: none •Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum •Counts as a directed elective or elective for all diplomas

7306 - Audio and Video Production Essentials AUD VID PROD - Audio and Video Production Essentials provides an in-depth study on audio and video production techniques for radio, television, and digital technologies. Students will learn skills necessary for audio production and on-air work used in radio and other digital formats. Additionally, experience will be gained in the development of the video production process; including skills in message development, directing, camera, video switcher, and character generator operations. •Recommended Grade(s): 10, 11, 12 •Required Prerequisites: Principles of Broadcasting •Recommended Prerequisites: none •Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum •Counts as a Directed Elective or Elective for all diplomas

7307 - Mass Media Production MASS MED PROD - Mass Media Production will focus on the study of theory and practice in the voice and visual aspects of radio and television performance. In addition, this course introduces the skills used to acquire and deliver news stories in a digital media format. Students will learn how to research issues and events, interview news sources, interact with law enforcement and government officials, along with learning to write in a comprehensive news style. •Recommended Grade(s): 10, 11, 12 •Required Prerequisites: Principles of Broadcasting; Audio and Video Production Essentials •Recommended Prerequisites: none •Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum •Counts as a Directed Elective or Elective for all diplomas

BUSINESS MANAGEMENT, MARKETING, AND FINANCE

4562 - Principles of Business Management PRIN BUS - Principles of Business Management examines business ownership, organization principles and problems, management, control facilities, administration, financial management, and development practices of business enterprises. This course will also emphasize the identification and practice of the appropriate use of technology to communicate and solve business problems and aid in decision making. Attention will be given to developing business communication, problem-solving, and decision-making skills using spreadsheets, word processing, data management, and presentation software. •Recommended Grade(s): 9, 10, 11 •Required Prerequisites: none •Recommended Prerequisites: Digital Applications and Responsibility •Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum •Counts as a directed elective or elective for all diplomas

4524 - Accounting Fundamentals - INTO ACCT - Accounting Fundamentals introduces the language of business using Generally Accepted Accounting Principles (GAAP) and procedures for proprietorships and partnerships using double-entry accounting. Emphasis is placed on accounting principles as they relate to both manual and automated financial systems. This course involves understanding, analyzing, and recording business transactions and preparing, analyzing, and interpreting financial reports as a basis for decision-making. •Recommended Grade(s): 10, 11, 12 •Required Prerequisites: Principles of Business Management •Recommended Prerequisites: none •Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum •Counts as a directed elective or elective all diplomas •Principles course is not required until 24-25 school year because this course is included in Perkins V pathways.

4522 - Advanced Accounting - ADV ACC - Advanced Accounting expands on the Generally Accepted Accounting Principles (GAAP) and procedures for various forms of business ownership using double-entry accounting covered in Accounting Fundamentals, including an emphasis on payroll accounting. Topics covered include calculating gross pay, withholdings, net pay, direct deposits, journalizing payroll transactions and preparing individual earnings records and payroll registers. Emphasis is placed on applying Generally Accepted Accounting Principles through hands-on practice with popular commercial accounting software packages that are currently used in business. •Recommended Grade(s): 10, 11, 12 •Required Prerequisites: Principles of Business Management; Accounting Fundamentals •Recommended Prerequisites: none •Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum •Counts as a directed elective or elective for all diplomas •Qualifies as a quantitative reasoning course

5914- Marketing Fundamentals - PRN MRKT - Marketing Fundamentals provides a basic introduction to the scope and importance of marketing in the global economy. Course topics include the seven functions of marketing: promotion, channel management, pricing, product/service management, market planning, marketing information management, and professional selling skills. Emphasis is marketing content but will involve use of oral and written communications, mathematical applications, problem-solving, and critical thinking skills through the development of an integrated marketing plan and other projects. •Recommended Grade(s): 11,12 •Required Prerequisites: Principles of Business Management* •Recommended Prerequisites: none •Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum •Counts as a directed elective or elective for all diplomas •*Formerly Principles of Marketing; Principles course is not required until 2024-25 school year because this course is included in Perkins V pathways

5918 - Strategic Marketing - STRT MRKT - Strategic Marketing builds upon the foundations of marketing and applies the functions of marketing at an advanced level. Students will study the basic principles of consumer behavior and examine the application of theories from psychology, social psychology, and economics. The relationship between consumer behavior and marketing activities will be reviewed. •Recommended Grade(s): 10, 11, 12 •Required Prerequisites: Principles of Business Management*; Marketing Fundamentals •Recommended Prerequisites: none •Credits: 2 semester course, 2 semesters required, 1-2 credits per semester, 4 credits maximum •Counts as a directed elective or elective for all diplomas •*Principles course is not required until 2024-25 school year because this course is included in Perkins V pathways.

EDUCATION AND TRAINING

7160 - Principles of Early Childhood Education - PRIN EAR CH ED - This course provides students with an overview of skills and strategies necessary to successfully complete a certificate. Additionally, it provides an overview of the history, theory, and foundations of early childhood education as well as exposure to types of programs, curricula and services available to young children. This course also examines basic principles of child development, Developmentally Appropriate Practices (DAP), importance of family, licensing, and elements of quality care of young children with an emphasis on the learning environment related to health, safety, and nutrition. Students may be required to complete observations and field experiences with children as related to this course. •Recommended Grade(s): 9, 10, 11 •Required Prerequisites: none •Recommended Prerequisites: none •Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum •Counts as a directed elective or **elective for all diplomas**

7158 - Early Childhood Education Curriculum - EAR CHD ED CUR - Early Childhood Education Curriculum examines developmentally appropriate environments and activities in various childcare settings while exploring the varying developmental levels and cultural backgrounds of children. Students may be required to complete observations and field experiences with children as related to this course. •Recommended Grade(s): 10, 11, 12 •Required Prerequisites: Principles of Early Childhood Education •Recommended Prerequisites: none •Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum •Counts as a directed elective or elective for all diploma

7159 - Early Childhood Education Guidance - EAR CHD ED GD - This course allows students to analyze developmentally appropriate guidance, theory and implementation for various early care and education settings. It also provides a basic understanding of the anti-bias/multicultural emphasis in the field of early childhood. Students may be required to complete observations and field experiences with children as related to this course. •Recommended Grade(s): 10, 11, 12 •Required Prerequisites: Principles of Early Childhood Education •Recommended Prerequisites: none •Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum •Counts as a directed elective or elective for all diploma

HEALTH SCIENCES

7168 - Principles of Healthcare - PRIN HLCR - Principles of Healthcare content includes skills common to specific health career topics such as patient nursing care, dental care, animal care, medical laboratory, public health, and an introduction to healthcare systems. Lab experiences are organized and planned around the activities associated with the student's career objectives. •Recommended Grade(s): 9, 10, 11 •Required Prerequisites: none •Recommended Prerequisites: none •Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum •Counts as a directed elective or elective for all diplomas

5274 - Medical Terminology - MED TERMS - Medical Terminology prepares students with language skills necessary for effective, independent use of health and medical reference materials. It includes the study of health and High School Course Titles and Descriptions 2022-2023 301 medical abbreviations, symbols, and Greek and Latin word part meanings, all taught within the context of body systems. This course builds skills in pronouncing, spelling, and defining new words encountered in verbal and written information in the healthcare industry. Students have the opportunity to acquire essential skills for accurate and logical communication, and interpretation of medical records. Emphasis is on forming a foundation of a medical vocabulary including; appropriate and accurate meaning, spelling, and pronunciation of medical terms, and abbreviations, signs, and symbols. •Recommended Grade(s): 11, 12 •Required Prerequisites: none •Recommended Prerequisites: none •Credits: 2 semester course, 2 semesters required, 1 credit per semester, maximum of 2 credits •Counts as a directed elective or elective for all diplomas

7166 - Healthcare Specialist: CNA - HC SPEC CNA - The Healthcare Specialist: CNA prepares individuals desiring to work as nursing assistants with the knowledge, skills and attitudes essential for providing basic care in extended care facilities, hospitals and home health agencies under the direction of licensed nurses. The course will introduce students to the disease process and aspects of caring for a long-term care resident with dementia. Individuals who successfully complete this course are eligible to apply to sit for the Indiana State Department of Health (ISDH) certification exam for nursing assistants. This course meets the minimum standards set forth by the ISDH for Certified Nursing Assistant training and for health care workers in long-term care facilities. •Recommended Grade(s): 10, 11, 12 •Required Prerequisites: Principles of Healthcare •Recommended Prerequisites: none •Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum •Counts as a directed elective or elective for all diplomas

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7165 - Emergency Medical Tech - EMT - This course is based on the training program developed by the Department of Transportation and the Emergency Medical Services Commission of Indiana. It covers theories, techniques and operational aspects of pre-hospital emergency care within the scope and responsibility of the emergency medical technician (EMT). It requires laboratory practice and clinical observation in a hospital emergency room and ambulance. Successful completion of the course meets national requirements to test for certification as an NREMT. •Recommended Grade(s): 10, 11, 12 •Required Prerequisites: Principles of Healthcare; and Medical Terminology •Recommended Prerequisites: none •Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum •Counts as a directed elective or elective for all diplomas •Schools are strongly encouraged to offer the EMT course along with Principles of Healthcare and Medical Terminology as part of a 3 period block of time

HOSPITALITY

7173 - Principles of Culinary and Hospitality PRIN HOSP - Principles of Culinary and Hospitality is designed to develop an understanding of the hospitality industry and career opportunities, and responsibilities in the food service and lodging industry. Introduces procedures for decision making which affects operation management, products, labor, and revenue. Additionally, students will learn the fundamentals of food preparation, basic principles of sanitation, service procedures, and safety practices in the food service industry including proper operation techniques for equipment. •Recommended Grade(s): 9, 10, 11 •Required Prerequisites: none •Recommended Prerequisites: none •Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum •Counts as a directed elective or elective for all diplomas

7171 - Nutrition FD THRY NUT - Nutrition students will learn the characteristics, functions and food sources of the major nutrient groups and how to maximize nutrient retention in food preparation and storage. Students will be made aware of nutrient needs throughout the life cycle and to apply those principles to menu planning and food preparation. This course will engage students in hands-on learning of nutritional concepts such as preparing nutrient dense meals or examining nutritional needs of student athletes. •Recommended Grade(s): 10, 11, 12 •Required Prerequisites: Principles of Culinary and Hospitality •Recommended Prerequisites: none •Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum •Counts as a directed elective or elective for all diplomas

7169 - Culinary Arts CUL ARTS - Culinary Arts teaches students how to prepare the four major stocks, the five mother sauces (in addition to smaller sauces) and various soups. Additional emphasis is placed on the further development of the classical cooking methods. This course will also present the fundamentals of baking science including terminology, ingredients, weights and measures, and proper use and care of equipment. Students will produce yeast goods, pies, cakes, cookies, and quick breads. •Recommended Grade(s): 10, 11, 12 •Required Prerequisites: Principles of Culinary and Hospitality •Recommended Prerequisites: none •Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum •Counts as a directed elective or elective for all diplomas

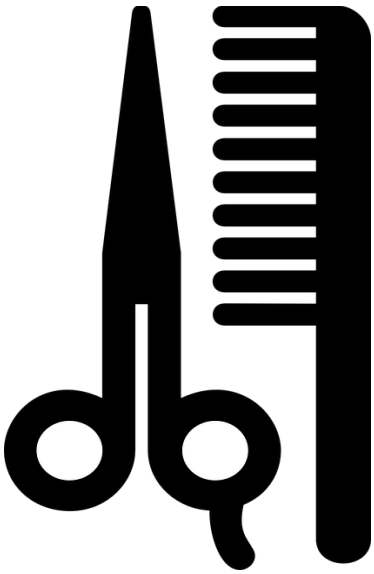
HUMAN SERVICES

(Cosmetology)

7330 - Principles of Barbering and Cosmetology PRIN COSMO - Principles of Cosmetology offers an introduction to cosmetology with emphasis on basic practical skills and theories including roller control, quick styling, shampooing, hair coloring, permanent waving, facials, manicuring, business and personal ethics, and bacteriology and sanitation. Successful completion of the course requires at least 375 Cosmetology studio hours. •Recommended Grade(s): 9, 10, 11 •Required Prerequisites: none •Recommended Prerequisites: none •Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum •Counts as a Directed Elective or Elective for all diplomas •This course may require extended hours of participation in order to meet the 1500 hours required for the Cosmetology and Barbering exams.

7331 - Barbering and Cosmetology Fundamentals STY COSMO - Barbering and Cosmetology Fundamentals focuses on the development of practical skills introduced in Principles of Cosmetology. Clinical application and theory in the science of cosmetology are introduced. Successful completion of the course requires at least 375 Cosmetology studio hours. •Recommended Grade(s): 10, 11, 12 •Required Prerequisites: Principles of Barbering and Cosmetology •Recommended Prerequisites: none •Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum •Counts as a Directed Elective or Elective for all diplomas •This course may require extended hours of participation in order to meet the 1500 hours required for the Cosmetology and Barbering exams.

7332 - Advanced Cosmetology - ADV COSMO - Advanced Cosmetology will emphasize the development of advanced skills in styling, hair coloring, permanent waving, facials and manicuring. Students will also study anatomy and physiology as it applies to cosmetology. Successful completion of the course requires at least 375 Cosmetology studio hours. •Recommended Grade(s): 10, 11, 12 •Required Prerequisites: Principles of Barbering and Cosmetology; Barbering and Cosmetology Fundamentals •Recommended Prerequisites: none •Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum •Counts as a Directed Elective or Elective for all diplomas •This course may require extended hours of participation in order to meet the 1500 hours required for the Cosmetology and Barbering exams.



LAW & PUBLIC SAFETY

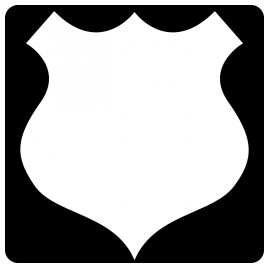
7195 - Principles of Fire and Rescue PRIN PS HAZ AWR - Principles of Fire and Rescue introduces students to the various roles that firefighters and emergency services workers play to protect the public from the loss of life and property. They are frequently the first emergency personnel at the scene of a traffic accident or medical emergency and may be called upon to put out a fire, treat injuries or perform other vital functions. This course will introduce students to the history, terminology, and basic firefighting skills needed for a beginning firefighter. Additionally, students will develop a career plan for a career in public safety; including areas of Fire Science, Homeland Security, and Emergency Medical Services. •Recommended Grade(s): 9, 10, 11 •Required Prerequisites: none •Recommended Prerequisites: none •Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum •Counts as a directed elective or elective for all diplomas

7189 - Fire Fighting Fundamentals FIRE FGHT FUN - Fire Fighting Fundamentals is for those students who are seeking certification as a firefighter. This course will prepare students for the Hazardous Materials Awareness and Operations certifications and will introduce students to NFPA 1001 which serves as the standard of measurement for all firefighters in North America. Students will learn the knowledge and hands on practical skills for managing and controlling a hazardous materials incident required for the certifications. Furthermore, students will study how a fire behaves and will learn the basic firefighting skills needed to extinguish a fire while protecting themselves and other firefighters. •Recommended Grade(s): 10, 11, 12 •Required Prerequisites: Principles of Fire and Rescue •Recommended Prerequisites: none •Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum •Counts as a directed elective or elective for all diplomas

7186 - Advanced Fire Fighting ADV FIRE FGHT - Advanced Fire Fighting expands upon the principles and techniques of firefighting learned in Fire Fighting Fundamentals. Students will study fire protection systems, firefighter safety and survival. Students will also learn what fire is, the chemical hazards of combustion, and related by-products of fire. Additionally, students will gain a better understanding of fire department organization, administration, operations, and basic strategies and tactics. •Recommended Grade(s): 10, 11, 12 •Required Prerequisites: Principles of Fire and Rescue; Fire Fighting Fundamentals •Recommended Prerequisites: none •Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum •Counts as a directed elective or elective for all diplomas

7193 - Principles of Criminal Justice PRIN CR JUST - Principles of Criminal Justice covers the purposes, functions, and history of the three primary parts of the criminal justice system: law enforcement, courts, and corrections. This course further explores the interrelationships and responsibilities of these three primary elements of the criminal justice system. •Recommended Grade(s): 9, 10, 11 •Required Prerequisites: none •Recommended Prerequisites: none •Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum •Counts as a directed elective or elective for all diplomas

7191 - Law Enforcement Fundamentals LAW ENF CLT AWR - Law Enforcement Fundamentals Critically examines the history and nature of the major theoretical perspectives in criminology, and the theories found within those perspectives. Analyzes the research support for such theories and perspectives, and the connections between theory and criminal justice system practice within all the major components of the criminal justice system. Demonstrates the application of specific theories to explain violent and non-violent criminal behavior on both the micro and macro levels of analysis. Additionally, this course will introduce fundamental law enforcement operations and organization. This includes the evolution of law enforcement at federal, state, and local levels. •Recommended Grade(s): 10, 11, 12 •Required Prerequisites: Principles of Criminal Justice •Recommended Prerequisites: none •Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum •Counts as a directed elective or elective for all diplomas



7188 - Corrections and Cultural Awareness CRT CORR - Corrections and Cultural Awareness emphasizes the study of American criminal justice problems and systems in historical and cultural perspectives, as well as discussing social and public policy factors affecting crime. Multidisciplinary and multicultural perspectives are stressed. Additionally, this course takes a further examination of the American correctional system; the study of administration of local, state, and federal correctional agencies. The examination also includes the history and development of correctional policies and practices, criminal sentencing, jails, prisons, alternative sentencing, prisoner rights, rehabilitation, and community corrections including probation and parole. Current philosophies of corrections and the debates surrounding the roles and effectiveness of criminal sentences, institutional procedures, technological developments, and special populations are discussed. High School Course Titles and Descriptions 2022-2023 327 •Recommended Grade(s): 10, 11, 12 •Required Prerequisites: Principles of Criminal Justice; Law Enforcement Fundamentals •Recommended Prerequisites: none •Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum •Counts as a directed elective or elective for all diplomas

TRANSPORTATION
(Automotive)

7213 - Principles of Automotive Services PRIN AUTO SER - This course gives students an overview of the operating and general maintenance systems of the modern automobile. Students will be introduced to the safety and operation of equipment and tools used in the automotive industry. Students will study the maintenance and light repair of automotive systems. Also, this course gives students an overview of the electrical operating systems of the modern automobile. Students will be introduced to the safety and operation of equipment and tools used in the electrical diagnosis and repair in the automotive electrical industry. Students will study the fundamentals of electricity and automotive electronics. •Recommended Grade(s): 9, 10, 11 •Required Prerequisites: none •Recommended Prerequisites: none •Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum •Counts as a directed elective or elective for all diplomas

7205 - Brake Systems AUTO BRK ELE - This course gives students an in-depth study of vehicle electrical systems. Students will study the fundamentals of electricity and automotive electronics in various automotive systems. Additionally, it teaches theory, service and repair of automotive braking systems. This course provides an overview of various mechanical brake systems used on today's automobiles. This course will emphasize professional diagnosis and repair methods for brake systems. •Recommended Grade(s): 10, 11, 12 •Required Prerequisites: Principles of Automotive Services •Recommended Prerequisites: none •Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum •Counts as a directed elective or elective for all diplomas •Schools partnering with Vincennes University must offer the program of study as part of a 2-3 period block.

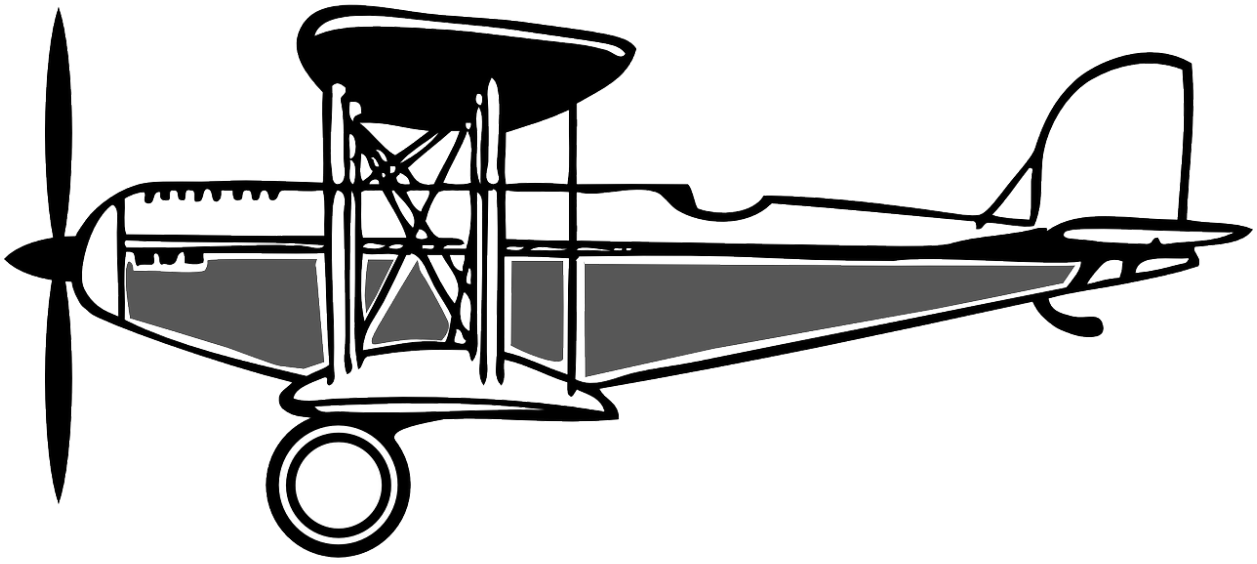
7212 - Steering and Suspensions ENG PERF - This course takes an in-depth look at engine performance, including concepts in the diagnosis and repair of ignition, fuel, emission and related computer networks. This course presents engine theory and operation and studies the various engine designs utilized today. This course also takes an in-depth look at engine performance, including advanced concepts in the diagnosis and repair of ignition, fuel, emission and related computer networks. This course presents engine theory and operation and studies the various engine designs utilized today. Hybrid/Alternative fuel technology will also be introduced. •Recommended Grade(s): 10, 11, 12 •Required Prerequisites: Principles of Automotive Services •Recommended Prerequisites: none •Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum •Counts as a directed elective or elective for all diplomas High School Course Titles and Descriptions 2022-2023 347 •Schools partnering with Vincennes University must offer the program of study as part of a 2-3 period block

(Aviation)

7214 - Principles of Aviation Management PRIN AVI MAN - This course provides the student the opportunity to develop an understanding of various aspects of the aviation industry to include general regulations and laws associated with the field. Included is an overview of the aviation field and all employment opportunities. Areas of study include aerodynamics, aircraft systems, performance, weight and balance, physiology, regulations, cross country planning, weather, and decision-making skills. Students will also learn of the departments associated with an airport and their impact on the industry as a whole. •Recommended Grade(s): 9, 10, 11 •Required Prerequisites: none •Recommended Prerequisites: none •Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum •Counts as a directed elective or elective for all diplomas

7217 - Private Pilot Theory PVT PLT THRY - The student will receive ground school knowledge required for certification as a private pilot with an airplane single engine land rating. Areas of study include aerodynamics, aircraft systems, performance, weight and balance, physiology, regulations, cross country planning, weather, and decision-making skills. •Recommended Grade(s): 10, 11, 12 •Required Prerequisites: Principles of Aviation Management •Recommended Prerequisites: none •Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum •Counts as a directed elective or elective for all diplomas

7207 - Aviation Safety and Operations AVI SAF OPS - This course is an overview of general aviation operations, including the operation and management of the Fixed Base Operation (FBO). It introduces the challenges and complexity of aviation security faced by aviation professionals across the industry and traces the evolution of current security approaches and explores technologies and processes targeting threat mitigation and improved operational efficiency. Emphasis will be placed on financial and operational considerations as well as on regulatory requirements and constraints. •Recommended Grade(s): 10, 11. 12 •Required Prerequisites: Principles of Aviation Management •Recommended Prerequisites: none •Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum •Counts as a directed elective or elective for all diplomas



CAREER AND TECHNICAL EDUCATION & WORK-BASED LEARNING

4540 - Personal Financial Responsibility PRSFINRSP - 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, identifying sources of income, savings, 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. •Recommended Grade(s): 10, 11, 12 •Required Prerequisites: none •Recommended Prerequisites: none •Credits: 1 credit per semester, 1 credit maximum •Counts as a directed elective or elective for all diplomas Qualifies as a quantitative reasoning course

5340 - Advanced Nutrition and Wellness ADV NTRN WEL - Advanced Nutrition and Wellness is a course which provides an extensive study of nutrition. This course is recommended for all students wanting to improve their nutrition and learn how nutrition affects the body across the lifespan. Advanced Nutrition and Wellness is an especially appropriate course for students interested in careers in the medical field, athletic training and dietetics. This course builds on the foundation established in Nutrition and Wellness, which is a High School Course Titles and Descriptions 2022-2023 286 required prerequisite. This is a project-based course; utilizing higher-order thinking, communication, leadership and management processes. Topics include extensive study of major nutrients, nutritional standards across the lifespan, influences on nutrition/food choices, technological and scientific influences, and career exploration in this field. Laboratory experiences will be utilized to develop food handling and preparation skills; attention will be given to nutrition, food safety and sanitation. This course is the second in a sequence of courses that provide a foundation for continuing and post-secondary education in all career areas related to nutrition, food, and wellness. •Recommended Grade(s): 10, 11, 12 •Required Prerequisites: none •Recommended Prerequisites: Nutrition and Wellness •Credits: 1 or 2 semester course, 1 credit per semester, 2 credits maximum •Counts as a directed elective or elective for all diploma

5360 - Advanced Child Development ADVCHLDDEV - Advanced Child Development is for those students interested in life foundations, academic enrichment, and/or careers related to knowledge of children, child development, and nurturing of children. This course addresses issues of child development from ages four through age eight (grade three). It builds on the Child Development course, which is a prerequisite. Advanced Child Development includes the study of professional and ethical issues in child development; child growth and development; child development theories, research, and best practices; child health and wellness; teaching and guiding children; special conditions affecting children; and career exploration in child development and nurturing. A project-based approach that utilizes higher order thinking, communication, leadership, management, and fundamentals to college and career success is recommended in order to integrate these topics into the study of child development. Direct, concrete mathematics and language arts proficiencies will be applied. •Recommended Grade(s): 10, 11, 12 •Required Prerequisites: none •Recommended Prerequisites: Child Development •Credits: 1 or 2 semester course, 1 credit per semester, 2 credits maximum •Counts as a directed elective or elective for all diplomas

5366 - Human Development and Wellness HUMAN DEV - Human Development and Wellness is valuable for all students as a life foundation and academic enrichment; it is especially relevant for students interested in careers impacted by individual's physical, social, emotional, and moral development and wellness across the lifespan. Major topics include principles of human development and wellness; impacts of family on human development and wellness; factors that affect human development and wellness; practices that promote human development and wellness; managing resources and services related to human development and wellness; and career exploration in human development and wellness. Life events and contemporary issues addressed in this course include (but are not limited to) change; stress; abuse; personal safety; and relationships among lifestyle choices, health and wellness conditions, and diseases. A project-based approach that utilizes higher order thinking, communication, leadership, and management processes is recommended in order to integrate the study of these topics. Authentic applications through service learning are encouraged. •Recommended Grade(s): 10, 11, 12 •Required Prerequisites: none •Recommended Prerequisites: none •Credits: 1 or 2 semester course, 1 credit per semester, 2 credits maximum •Counts as a directed elective or elective for all diplomas •Qualifies as one of the FACS courses a student can take to waive the Health & Wellness graduation requirement. To qualify for the Health and Wellness waiver, a student must take three of the app

ENGLISH

1002 - ENGLISH 9 (ENG 9)
English 9, an integrated English course based on the Indiana Academic Standards for English/Language Arts in Grades 9-10, is a study of language, literature, composition, and oral communication, focusing on literature within an appropriate level of complexity for this grade band. Students use literary interpretation, analysis, comparisons, and evaluation to read and respond to representative works of historical or cultural significance in classic and contemporary literature balanced with nonfiction. Students write responses to literature, expository (informative), narrative, and argumentative/persuasive compositions, and sustained research assignments. Students deliver grade-appropriate oral presentations with attention to audience and purpose and access, analyze, and evaluate online information.
● Recommended Grade Level: 9
● Recommended Prerequisites: none
● Credits: 2 semester course, 1 credit per semester
● Fulfills an English/Language Arts requirement for all diplomas
1002A - APPLIED ENGLISH 9 ● Recommended Grade Level: 9-10 ● Applied Units: 4 units maximum ● Counts as an English/Language Arts Requirement for the Certificate of Completion

1004 - ENGLISH 10 (ENG 10)
English 10, an integrated English course based on the Indiana Academic Standards for English/Language Arts in Grades 9-10, is a study of language, literature, composition, and oral communication, focusing on literature with an appropriate level of complexity for this grade band. Students use literary interpretation, analysis, comparisons,
and evaluation to read and respond to representative works of historical or cultural significance in classic and contemporary literature balanced with nonfiction. Students write responses to literature, expository (informative) and argumentative/persuasive compositions, and sustained research assignments. Students deliver grade-appropriate oral presentations with attention to audience and purpose and access, analyze, and evaluate online information.
● Recommended Grade Level: 10
● Recommended Prerequisites: English 9 or teacher recommendation
● Credits: 2 semester course, 1 credit per semester
● Fulfills an English/Language Arts requirement for all diplomas
1004A (APPLIED ENGLISH 10 ● Recommended Grade Level: 9-10 ● Applied Units: 4 units maximum
● Counts as an English/Language Arts Requirement for the Certificate of Completion

1006 - ENGLISH 11 (ENG 11)
English 11, an integrated English course based on the Indiana Academic Standards for English/Language Arts in Grades 11-12, is a study of language, literature, composition, and oral communication focusing on literature with an appropriate level of complexity for this grade band. Students use literary interpretation, analysis, comparisons, and evaluation to read and respond to representative works of historical or cultural significance appropriate in classic and contemporary literature balanced with nonfiction. Students write narratives, responses to literature, academic essays (e.g. analytical, persuasive, expository, summary), and more sustained research assignments incorporating visual information in the form of pictures, graphs, charts and tables. Students write and deliver grade-appropriate multimedia presentations and access, analyze, and evaluate online information.
● Recommended Grade Level: 11
● Recommended Prerequisites: English 9 and English 10 or teacher recommendation
● Credits: 2 semester course, 1 credit per semester
● Fulfills an English/Language Arts requirement for all diplomas
1006A APPLIED ENGLISH 11 ● Recommended Grade Level: 11-12 ● Applied Units: 4 units maximum ● Counts as an English/Language Arts Requirement for the Certificate of Completion

1098 - ADVANCED COMPOSITION (ADV COMP)
Advanced Composition, a course based on the Indiana Academic Standards for English/Language Arts, is a study and application of the rhetorical writing strategies of exposition and persuasion. Students write expository critiques of nonfiction selections, literary criticism of fiction selections, persuasive compositions, and research reports in addition to other appropriate writing tasks. Course can be offered in conjunction with a literature course, or schools may embed Indiana Academic Standards for English/Language Arts reading standards within the curriculum.
● Recommended Grade Level: 12
● Recommended Prerequisites: English 9, English 10, English 11
● Credits: 1 or 2 semester course, 1 credit per semester
● Fulfills an English/Language Arts requirement for all diplomas

1036 - GENRES OF LITERATURE (GENRES LIT)
Genres of Literature, a course based on the Indiana Academic Standards for English/Language Arts, is a study of various literary genres, such as poetry, dramas, novels, short stories, biographies, journals, diaries, essays, and others. Students examine a set or sets of literary works written in different genres that address similar topics or themes. Students analyze how each genre shapes literary understanding or experiences differently, how different genres enable or constrain the expression of ideas, how certain genres have had stronger impact on the culture than others in different historical time periods, and what the most influential genres are in contemporary times. Course can be offered in conjunction with a composition course, or schools may embed Indiana Academic Standards for English/Language Arts writing standards within the curriculum.
● Recommended Grade Level: 12
● Recommended Prerequisites: English 9, English 10, English 11
● Credits: 1 or 2 semester course, 1 credit per semester
● Fulfills an English/Language Arts requirement for all diplomas

1056 - AP ENGLISH LANGUAGE AND COMPOSITION (LNG/COMP AP)
AP English Language and Composition is a course based on the content established and copyrighted by the College Board. The course is not intended to be used as a dual credit course. The course focuses on the development and revision of evidence-based analytic and argumentative writing and the rhetorical analysis of nonfiction texts. The course aligns to an introductory college-level rhetoric and writing curriculum, which requires students to develop evidence-based analytic and argumentative essays that proceed through several stages or drafts. Students evaluate, synthesize, and cite research to support their arguments. Throughout the course, students develop a personal style by making appropriate grammatical choices.
Additionally, students read and analyze the rhetorical elements and their effects in non-fiction texts, including graphic images as forms of text, from many disciplines and historical periods. There is no prescribed sequence of study.
• Recommended Grade Level: 11, 12 (College Board does not designate when this course should be offered).
• Recommended Prerequisites: English 9 and English 10 or teacher recommendation. Students should be able to read and comprehend college-level texts and apply the conventions of standard written English in their writing.
• Credits: 2 semester course, 1 credit per semester
• Fulfills an English/Language Arts requirement for grades 11 or 12 for all diplomas

1058 - AP ENGLISH LITERATURE AND COMPOSITION (LIT/COMP AP)
AP English Literature and Composition is a course based on the content established and copyrighted by the College Board. The course is not intended to be used as a dual credit course. The course engages students in the close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language to provide both meaning and pleasure. As they read, students consider a work's structure, style, and themes, as well as its use of figurative language, imagery, symbolism, and tone. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works.
• Recommended Grade Level: 11,12
• Recommended Prerequisites: English 9 and English 10 or teacher
recommendation. Students should be able to read and comprehend college-level texts and apply the conventions of Standard Written English in their writing.
• Credits: 2 semester course, 1 credit per semester
• Fulfills an English/Language Arts requirement for grades 11 or 12 for all diplomas

1075 - ADVANCED SPEECH AND COMMUNICATION (ADV SPEECH) (Dual Credit Opportunity)
Advanced Speech and Communication, a course based on the Indiana Academic Standards for English/Language Arts and emphasizing the High School Speech and Communication Standards, is the study and application of skills in listening, oral interpretation, media communications, research methods, and oral debate. Students deliver different types of oral and multimedia presentations, including speeches to inform, to motivate, to entertain, and to persuade through the use of impromptu, extemporaneous, memorized, or manuscript delivery.
● Recommended Grade Level: 11, 12
● Recommended Prerequisites: None
● Credits: 1 semester course, 1 credit per semester
● Opportunity for dual credit IU Kokomo SPCH121

1008A APPLIED ENGLISH 12
Applied English 12, an integrated English course based on the Indiana Content Connectors English/Language Arts in Grades 9-10 and applicable employability skills. This course is a study of language, literature, composition, and communication focusing on literature with an appropriate level of complexity for each individual student. Students analyze, compare, and evaluate a variety of classic and contemporary literature and nonfiction texts, including those of historical or cultural significance. Students write narratives, responses to literature, academic responses (e.g. analytical, persuasive, expository, summary), and research tasks when appropriate. Students analyze and create visual information in the form of pictures, graphs, charts, and tables. Students write and deliver grade-appropriate multimedia presentations and access online information.

- Recommended Grade Level: 11-12
- Applied Units: 4 units maximum
- Counts as an English/Language Arts Requirement for the Certificate of Completion

11

FAMILY & CONSUMER SCIENCE

- **See additional classes listed with Career and Technical Education**

5340 - ADVANCED NUTRITION AND WELLNESS (ADV NTRN WEL)

Advanced Nutrition and Wellness is a course which provides an extensive study of nutrition. This course is recommended for all students wanting to improve their nutrition and learn how nutrition affects the body across the lifespan. Advanced Nutrition and Wellness is an especially appropriate course for students interested in careers in the medical field, athletic training and dietetics. This course builds on the foundation established in Nutrition and Wellness, which is a required prerequisite. This is a project-based course; utilizing higher-order thinking, communication, leadership and management processes. Topics include extensive study of major nutrients, nutritional standards across the lifespan, influences on nutrition/food choices, technological and scientific influences, and career exploration in this field. Laboratory experiences will be utilized to develop food handling and preparation skills; attention will be given to nutrition, food safety and sanitation. This course is the second in a sequence of courses that provide a foundation for continuing and post-secondary education in all career areas related to nutrition, food, and wellness.
Recommended Grade Level: 10, 11, 12
Recommended Prerequisites: Nutrition and Wellness
Credits: 1 or 2 semester course, 1 credit per semester, 2 credits maximum
Counts as a Directed Elective or Elective for all diplomas

FINE ARTS

VISUAL

4006 – ADVANCED THREE-DIMENSIONAL ART I (L) (ADV 3D ART)

Advanced Three-Dimensional Art is a course based on the Indiana Academic Standards for Visual Art. Students in this course build on the sequential learning experiences of Introduction to Three-Dimensional Art that encompass art history, art criticism, aesthetics, and production and lead to the creation of portfolio quality works. Students explore historical and cultural background and connections; analyze, interpret, theorize, and make informed judgments about artwork and the nature of art; create three-dimensional works of art, reflect upon the outcomes, and revise their work; relate art to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills. They identify ways to utilize and support art museums, galleries, studios, and community resources.

- Recommended Grade Level: 10, 11, 12
- Required Prerequisites: Introduction to Two-Dimensional Art (L), Introduction to Three-Dimensional Art (L)
- Credits: 1 semester course, 1 credit per semester. The nature of this course allows for successive semesters of instruction at an advanced level provided that defined proficiencies and content standards are utilized
- Counts as a Directed Elective or Elective for all diplomas
- Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma
- Laboratory Course

4004 – ADVANCED TWO-DIMENSIONAL ART I (L) (ADV 2D ART)

Advanced Two-Dimensional Art is a course based on the Indiana Academic Standards for Visual Art. Students in this course build on the sequential learning experiences of Introduction to Two-Dimensional Art that encompass art history, art criticism, aesthetics, and production and lead to the creation of portfolio quality works. Students explore historical and cultural background and connections; analyze, interpret, theorize, and make informed judgments about artwork and the nature of art; create two-dimensional works of art, reflect upon the outcomes, and revise their work; relate art to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills. They identify ways to utilize and support art museums, galleries, studios, and community resources.

- Recommended Grade Level: 9, 10, 11, 12
- Required Prerequisites: Introduction to Two-Dimensional Art (L)
- Credits: 1 semester course, 1 credit per semester. The nature of this course allows for successive semesters of instruction at an advanced level provided that defined proficiencies and content standards are utilized.
- Counts as a Directed Elective or Elective for all diplomas
- Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma
- Laboratory Course

4040 - CERAMICS (L) (CERAMICS)

Ceramics is a course based on the Indiana Academic Standards for Visual Art. Students in ceramics engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production and lead to the creation of portfolio quality works. Students create works of art in clay utilizing the processes of hand building, molds, wheel throwing, slip and glaze techniques, and the firing processes. They reflect upon and refine their work; explore cultural and historical connections; analyze, interpret, theorize, and make informed judgments about artwork and the nature of art; relate art to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills. Students utilize the resources of art museums, galleries, and studios, and identify art-related careers.

- Recommended Grade Level: 10, 11, 12
- Recommended Prerequisites: Introduction to Two-Dimensional Art (L), Introduction to Three-Dimensional Art (L)
- Credits: 1 semester course, 1 credit per semester. The nature of this course allows for successive semesters of instruction at an advanced level provided that defined proficiencies and content standards are utilized
- Counts as a Directed Elective or Elective for all diplomas
- Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma
- Laboratory Course

4060 – Drawing (L) (DRAWING)

Drawing is a course based on the Indiana Academic Standards for Visual Art. Students in drawing engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production and lead to the creation of portfolio quality works. Students create drawings utilizing processes such as sketching, rendering, contour, gesture, and perspective drawing and use a variety of media such as pencil, chalk, pastels, charcoal, and pen and ink. They reflect upon and refine their work; explore cultural and historical connections; analyze, interpret, theorize, and make informed judgments about artwork and the nature of art; relate art to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills. Students utilize the resources of art museums, galleries, and studios, and identify art-related careers.

- Recommended Grade Level: 10, 11, 12
- Required Prerequisites: Introduction to Two-Dimensional Art (L)
- Credits: 1 semester course, 1 credit per semester. The nature of this course allows for successive semesters of instruction at an advanced level provided that defined proficiencies and content standards are utilized.
- Counts as a Directed Elective or Elective for all diplomas
- Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma
- Laboratory Course

4002 – INTRODUCTION TO THREE- DIMENSIONAL ART (L) (3D ART)

Introduction to Three-Dimensional Art is a course based on the Indiana Academic Standards for Visual Art. Students taking this course engage in sequential learning experiences that encompass art history, art criticism, aesthetics, production, and integrated studies and lead to the creation of portfolio quality works. Students explore historical and cultural background and connections; analyze, interpret, theorize, and make informed judgments about artwork and the nature of art; create three-dimensional works of art, reflect upon the outcomes, and revise their work; relate art to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills. They identify ways to utilize and support art museums, galleries, studios, and community resources.

- Recommended Grade Level: 10, 11, 12
- Recommended Prerequisites: Introduction to Two-Dimensional Art (L)
- Credits: 1 semester course, 1 credit per semester
- Counts as a Directed Elective or Elective for all diplomas
- Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma
- Laboratory Course

4000 – INTRODUCTION TO TWO- DIMENSIONAL ART (L) (2D ART)

Introduction to Two-Dimensional Art is a course based on the Indiana Academic Standards for Visual Art. Students taking this course engage in sequential learning experiences that encompass art history, art criticism, aesthetics, production, and integrated studies and lead to the creation of portfolio quality works. Students explore historical and cultural background and connections; analyze, interpret, theorize, and make informed judgments about artwork and the nature of art; create two-dimensional works of art, reflect upon the outcomes, and revise their work; relate art to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills. They identify ways to utilize and support art museums, galleries, studios, and community resources.

- Recommended Grade Level: 9, 10, 11, 12
- Recommended Prerequisites: none
- Credits: 1 semester course, 1 credit per semester
- Counts as a Directed Elective or Elective for all diplomas
- Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma
- Laboratory Course

4064 - PAINTING (L) (PAINTING)

Painting is a course based on the Indiana Academic Standards for Visual Art. Students taking painting engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production that lead to the creation of portfolio quality works. Students create abstract and realistic paintings, using a variety of materials such as mixed media, watercolor, oil, and acrylics as well as techniques such as stippling, gouache, wash, and impasto. They reflect upon and refine their work; explore cultural and historical connections; analyze, interpret, theorize, and make informed judgments about artwork and the nature of art; relate art to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills. Students utilize the resources of art museums, galleries, and studios, and identify art- related careers.

● Recommended Grade Level: 10, 11, 12

●● Required Prerequisites: Introduction to Two-Dimensional Art (L) & Drawing

● Credits: 1 semester course, 1 credit per semester. The nature of this course allows for successive semesters of instruction at an advanced level provided that defined proficiencies and content standards are utilized.

● Counts as a Directed Elective or Elective for all diplomas

● Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma

● Laboratory Course

4062 - PHOTOGRAPHY (L) (PHOTOGRPH)

Photography is a course based on the Indiana Academic Standards for Visual Art. Students in photography engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production and lead to the creation of portfolio quality works, creating photographs, films, and videos utilizing a variety of digital tools. They reflect upon and refine their work; explore cultural and historical connections; analyze, interpret, theorize, aynd make informed judgments about artwork and the nature of art; relate art to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills. Students utilize the resources of art museums, galleries, and studios, and identify art- related careers.

● Recommended Grade Level: 10, 11, 12

● Recommended Prerequisites: Introduction to Two-Dimensional Art (L)

● Credits: 1 semester course, 1 credit per semester. The nature of this course allows for successive semesters of instruction at an advanced level provided that defined proficiencies and content standards are utilized.

● Counts as a Directed Elective or Elective for all diplomas

● Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma

● Laboratory Course

4024 Art History (ART HIST) ONLINE ONLY - ZERO HOUR

Art History is a course based on the Indiana Academic Standards for Visual Art. Students taking Art History engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production. Students study works of art and artifacts from world cultures, engage in historically relevant studio activities; utilize research skills to discover social, political, economic, technological, environmental, and historical trends and connections; analyze, interpret, theorize, and make informed judgments about artwork and the nature of art; relate art to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills. Students utilize the resources of art museums, galleries, and studios, and identify art-related careers.

● Recommended Grade: 12 ● Required Prerequisites: none ● Recommended Prerequisites: none

● Credits: 1 semester course, 1 credit per semester ● Counts as a Directed Elective or Elective for all diplomas

● Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma

4024 Art History(ART HIST) ONLINE ONLY - ZERO HOUR

Art History is a course based on the Indiana Academic Standards for Visual Art. Students taking Art History engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production. Students study works of art and artifacts from world cultures, engage in historically relevant studio activities; utilize research skills to discover social, political, economic, technological, environmental, and historical trends and connections; analyze, interpret, theorize, and make informed judgments about artwork and the nature of art; relate art to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills. Students utilize the resources of art museums, galleries, and studios, and identify art-related careers. ● Recommended Grade: 12● Required Prerequisites: none● Recommended Prerequisites: none ● Credits: 1 semester course, 1 credit per semester● Counts as a Directed Elective or Elective for all diplomas ● Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma

FINE ARTS ~ *MUSIC*

4200 - Applied Music (L) (APPL MUS) Applied Music is based on the Indiana Academic Standards for High School Choral or Instrumental Music. Applied Music offers high school students the opportunity to receive small group or private instruction designed to develop and refine performance skills. A variety of music methods and repertoire is utilized to refine students' abilities in performing, creating, and responding to music. •Recommended Grade: 9,10, 11, 12 •Required Prerequisites: none •Recommended Prerequisites: none •Credits: 1 semester course, 1 credit per semester. The nature of this course allows for successive semesters of instruction at an advanced level provided that defined proficiencies and content standards are utilized. •Counts as a directed elective or elective for all diplomas •Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma •Laboratory course

4160 - BEGINNING CONCERT BAND (L) (4168 - INTERMEDIATE; 4170 - ADVANCED)
Students taking this course are provided with a balanced comprehensive study of music through the concert band, which develops skills in the psychomotor, cognitive, and affective domains. Instruction is designed to enable students to connect, examine, imagine, define, try, extend, refine, and integrate music study into other subject areas. Ensemble and solo activities are designed to develop elements of musicianship including, but not limited to: (1) tone production, (2) technical skills, (3) intonation, (4) music reading skills, (5) listening skills, (6) analyzing music, and (7) studying historically significant styles of literature. Experiences include, but are not limited to, improvising, conducting, playing by ear, and sight-reading. Students are given opportunities to develop the ability to understand and convey the composer's intent in order to connect the performer with the audience.
Time outside of the school day may be scheduled for dress rehearsals and performances. A limited number of public performances may serve as a culmination of daily rehearsal and musical goals. Students are required to participate in performance opportunities, outside of the school day, that support and extend learning in the classroom.
*Prerequisite: Instructor's Permission *Course qualifies for Core 40, Core 40 with Academic Honors, and Core 40 with Technical Honors *Credits: 1 semester course, 1 credit per semester. The nature of this course allows for successive semesters of instruction at an advanced level provided that defined proficiencies and content standards are utilized.

4182 – BEGINNING CHORUS (L) (4186 - INTERMEDIATE; 4188 - ADVANCED)
Students taking Beginning Chorus develop musicianship and specific performance skills through ensemble and solo singing. Activities in this class create the development of quality repertoire in the diverse styles of choral literature appropriate in difficulty and range for the students. Instruction is designed so that students are enabled to connect, examine, imagine, define, try, extend, refine, and integrate music study into other subject areas. Chorus classes provide instruction in creating, performing, conducting, listening to, and analyzing, in addition to focusing on the specific subject matter. Students develop the ability to understand and convey the composer's intent in order to connect the performer with the audience.
A limited amount of time, outside of the school day, may be scheduled for dress rehearsals and performances. A limited number of public performances may serve as a culmination of daily rehearsal and music goals. Students must participate in performance opportunities, outside of the school day, that support and extend learning in the classroom.
*Prerequisite: Instructor's Permission *Course qualifies for Core 40, Core 40 with Academic Honors, and Core 40 with Technical Honors *Credits: 1 semester course, 1 credit per semester. The nature of this course allows for successive semesters of instruction at an advanced level provided that defined proficiencies and content standards are utilized.

4206 - MUSIC HISTORY AND APPRECIATION (MUS HIST)
Music History and Appreciation is based on the Indiana Academic Standards for Music and standards for this specific course. Students receive instruction designed to explore music and major musical styles and periods through understanding music in relation to both Western and Non-Western history and culture. Activities include analyzing and describing music; evaluating music and music performances; and understanding relationships between music and the other arts, as well as disciplines outside of the arts. ● Recommended Grade Level: 9, 10, 11, 12 ● Recommended Prerequisites: none
● Credits: 1 or 2 semester course, 1 credit per semester. The nature of this course allows for two successive semesters of instruction, provided that defined standards are utilized. ● Counts as a Directed Elective or Elective for all diplomas
● Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma

4164 - JAZZ ENSEMBLE (L) (JAZZ ENS) (ZERO HOUR ONLY)

Jazz Ensemble is based on the Indiana Academic Standards for High School Instrumental Music. Students taking this course develop musicianship and specific performance skills through group and individual settings for the study and performance of varied styles of instrumental jazz. Instruction includes the study of the history, formative, and stylistic elements of jazz. Students develop their creative skills through improvisation, composition, arranging, performing, listening, and analyzing. A limited amount of time outside of the school day may be scheduled for rehearsals and performances. In addition, a limited number of public performances may serve as a culmination of daily rehearsal and musical goals. Students must participate in performance opportunities outside of the school day that support and extend the learning in the classroom. Student participants must also be receiving instruction in another band or orchestra class offering at the discretion of the director.
● Recommended Grade Level: 10, 11, 12 ● Recommended Prerequisites: none ● Credits: 1 semester course, 1 credit per semester. The nature of this course allows for successive semesters of instruction at an advanced level provided that defined proficiencies and content standards are utilized. ● Counts as a Directed Elective or Elective for all diplomas
● Fulfills requirement for 1 of 2 Fine Arts credits for the Core 40 with Academic Honors Diploma if students are enrolled in another band or orchestra course ● Laboratory Course

4244 - Technical Theatre (L) (TECH THTR) Technical Theatre is based on the Indiana Academic Standards for Theatre. Students enrolled in Technical Theatre actively engage in the process of designing, building, managing, and implementing the technical aspects of a production. These activities should 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. ● Recommended Grade: 9, 10, 11, 12 ● Required Prerequisites: none ● Recommended Prerequisites: none ● Credits: 1 semester course, 1 credit per semester. The nature of this course allows for successive semesters of instruction at an advanced level provided that defined proficiencies and content standards are utilized. ● Counts as a directed elective or elective for all diplomas ● Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma ● Laboratory Course

HEALTH AND PHYSICAL EDUCATION

3506 – HEALTH & WELLNESS (HLTHandWELL)

Health and Wellness, a course based on Indiana's Academic Standards for Health and Wellness and provides the basis to help students adopt and maintain healthy behaviors. Health education should contribute directly to a student's ability to successfully practice behaviors that protect and promote health and avoid or reduce health risks. Through a variety of instructional strategies, students practice the development of functional health information (essential concepts); determine personal values that support health behaviors; develop group norms that value a healthy lifestyle; develop the essential skills necessary to adopt, practice, and maintain health-enhancing behaviors. This course includes the application of priority areas in a planned, sequential,
comprehensive health education curriculum. Priority areas include: promoting personal health and wellness, physical activity, and healthy eating; promoting safety and preventing unintentional injury and violence; promoting
mental and emotional health, a tobacco- free lifestyle and an alcohol- and other drug-free lifestyle; and promoting human development and family health. This course provides students with the knowledge and skills of health and
wellness core concepts, analyzing influences, accessing information, interpersonal communication, decision-making and goal-setting skills, health-enhancing behaviors, and health and wellness advocacy skills.
● Recommended Grade Level: 9, 10, 11, 12 ● Recommended Prerequisites: 8th grade health education
● Credits: 1 semester course, 1 credit per semester, 1 credit maximum
● Fulfills the Health and Wellness requirement for all diploma types
3506A APPLIED HEALTH & WELLNESS ● Recommended Grade Level: 9, 10, 11, 12 ● Applied Units: 2 units maximum ● Counts as an Elective or Health & Wellness requirement for the Certificate of Completion

3542 –PHYSICAL EDUCATION I (L) (PHYS ED)

Physical Education I focuses on instructional strategies through a planned, sequential, and comprehensive physical education curriculum that provides students with opportunities to actively participate in at least four of the following: team sports; dual sport activities; individual physical activities; outdoor pursuits; self-defense and martial arts; aquatics; gymnastics; and dance, all of which are within the framework of the skills, knowledge and confidence needed by the student for a lifetime of healthful physical activity and fitness. Ongoing assessment includes both written and performance-based skill evaluation. Individual assessments may be modified for individuals with disabilities, in addition to those with IEPs and 504 plans (e.g., chronic illnesses, temporary injuries, obesity, etc.). See 511 IAC 7-27-9, 7-27-11.

● Recommended Grade Level: 9, 10, 11, 12 ● Required Prerequisites: Grade 8 Physical Education

● Credits: 1 semester course, 1 credit per semester, 1 credit maximum. ● Fulfills part of the Physical Education requirement for all diplomas. ● Classes are co-educational unless the activity involves bodily contact or groupings based on an objective standard of individual performance developed and applied without regard to gender.

● Adapted physical education must be offered, as needed, in the least restricted environment and must be based upon an individual assessment. ● As a designated laboratory course, 25% of course time must be spent in activity.

3542A APPLIED PHYSICAL EDUCATION I

3544 – PHYSICAL EDUCATION II (L) (PHYS ED II)

Physical Education II focuses on instructional strategies through a planned, sequential, and comprehensive physical education curriculum that provides students with opportunities to actively participate in four of the following areas that were not included in Physical Education I: team sports; dual sport activities; individual physical activities; outdoor pursuits; self-defense and martial arts; aquatics; gymnastics; and dance, all of which are within the framework of the skills, knowledge and confidence needed by the student for a lifetime of healthful physical activity and fitness. Ongoing assessment includes both written and performance-based skill evaluation. Individual assessments may be modified for individuals with disabilities, in addition to those with IEPs and 504 plans (e.g., chronic illnesses, temporary injuries, obesity, etc.). See 511 IAC 7-27-9, 7-27-11.

● Recommended Grade Level: 9, 10, 11, 12 ● Required Prerequisites: Physical Education I

● Credits: 1 semester course, 1 credit per semester, 1 credit maximum. ● Fulfills part of the Physical Education requirement for all diplomas

● Classes are co-educational unless the activity involves bodily contact or groupings based on an objective standard of individual performance developed and applied without regard to gender.

● Adapted physical education must be offered, as needed, in the least restricted environment and must be based upon an individual assessment. ● As a designated laboratory course, 25% of course time must be spent in activity.

3544A APPLIED PHYSICAL EDUCATION II

3560 – ELECTIVE PHYSICAL EDUCATION (ELECT PE)

Elective Physical Education, a course based on selected standards from Indiana's Academic Standards for Physical Education, identifies what a student should know and be able to do as a result of a quality physical education program. The goal of a physically educated student is to maintain appropriate levels of cardiorespiratory endurance, muscular strength and endurance, flexibility, and body composition necessary for a healthy and productive life. Elective Physical Education promotes lifetime sport and recreational activities and provides an opportunity for an in-depth study in one or more specific areas. A minimum of two of the following activities should be included: team sports; dual sports activities; individual physical activities; outdoor pursuits; self-defense and martial arts; aquatics; gymnastics; and dance. This course includes the study of physical development concepts and principles of sport and exercise as well as opportunities to develop or refine skills and attitudes that promote lifelong fitness. Students have the opportunity to design and develop an appropriate personal fitness program that enables them to achieve a desired level of fitness. Ongoing assessment includes both written and performance-based skill evaluation. Individual assessments may be modified for individuals with disabilities, in addition to those with IEPs and 504 plans (e.g., chronic illnesses, temporary injuries, obesity, etc.). See 511 IAC 7-27-9, 7-27-11.

● Recommended Grade Level: 10, 11, 12

● Recommended Prerequisites: Physical Education I and II with Grades of C or better

● Credits: 1 credit per semester, maximum of 8 credits

● Counts as an Elective requirement for all diplomas

● The nature of this course allows for successive semesters of instruction provided defined proficiencies and content standards are utilized.

35602 - ELECTIVE PHYSICAL EDUCATION - TEACHING (PE TEACH)
This would be for a senior student who might be thinking of a career as a Physical Education Instructor. This individual would help with locker room supervision, refereeing team sports, leading class warm-ups, demonstrating sports skills, equipment care, and other duties as assigned.
Grade Level: 12 Only
2 Semesters – 2 Credits
Prerequisite: A or B in Physical Education and Teacher Approval

INFORMATION TECHNOLOGY

5230 - INFORMATION TECHNOLOGY SUPPORT I (IN TECH SUPP)
*Information Technology Suppor*t (formerly 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.
● Recommended Grade Level: 10, 11
● Required Prerequisites: Digital Applications and Responsibility
● Credits: 2 semester course, 2 semesters required, 1-3 credits per semester, 6 credits maximum
● Counts as a Directed Elective or Elective for all diplomas

4803 Introduction to Computer Science (INTRO CS)
Introduction to Computer Science allows students to explore the world of computer science. Students wil gain a broad understanding of the areas composing computer science. High School Course Titles and Descriptions 2022-2023 344 Additionally, there is a focus on the areas of computer programming, gaming/mobile development, and artificial intelligence/robotics. •Recommended Grade(s): 9, 10 •Required Prerequisites: none •Recommended Prerequisites: none •Credits: 1 to 2 semester course, 1 credit per semester, 2 credits maximum •Counts as a directed elective or elective for all diplomas

MATHEMATICS

2520 – ALGEBRA I (ALG I)
Algebra I formalizes and extends the mathematics students learned in the middle grades. Algebra I is made up of 6 strands: Real Numbers and Expressions; Functions; Linear Equations, Inequalities, and Functions; Systems of Equations and Inequalities; Quadratic and Exponential Equations and Functions; and Data Analysis and Statistics. These critical areas deepen and extend understanding of linear and exponential relationships by contrasting them with each other and by applying linear models to data that exhibit a linear trend. Students will also engage in methods for analyzing, solving, and using quadratic functions. The eight Process Standards for Mathematics apply throughout the course. Together with the content standards, the Process Standards prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.
● Recommended Grade Level: 9, 10, 11, 12 ● Recommended Prerequisites: none
● Credits: 2 semester course, 1 credit per semester ● Counts as a Mathematics course for all diplomas
● Fulfills the Algebra I requirement for all diplomas ● Students pursuing Core 40, Core 40 with Academics Honors, or Core 40 with Technical Honors diploma should receive credit for Algebra I by the end of Grade 9
2520A APPLIED ALGEBRA I ● Recommended Grade Level: 9, 10, 11, 12● Applied Units: 4 units maximum
● Counts as a Math Requirement for the Certificate of Completion

2522 - ALGEBRA II (ALG II)
Algebra II builds on work with linear, quadratic, and exponential functions and allows for students to extend their repertoire of functions to include polynomial, rational, and radical functions. Students work closely with the expressions that define the functions, and continue to expand and hone their abilities to model situations and to solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms. Algebra II is made up of seven strands: Complex Numbers and Expressions; Functions; Systems of Equations; Quadratic Equations and Functions; Exponential & Logarithmic Equations and Functions; Polynomial, Rational, and Other Equations and Functions; and Data Analysis, Statistics, and Probability. The eight Process Standards for Mathematics apply throughout the course. Together with the content standards, the Process Standards prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.
● Recommended Grade Level: 9, 10, 11, 12
● Recommended Prerequisite: Algebra I
● Credits: 2 semester course, 1 credit per semester
● Counts as a Mathematics course for all diplomas
● Fulfills the Algebra II requirement for all diplomas

2532 – GEOMETRY (GEOM)
Geometry formalizes and extends students' geometric experiences from the middle grades. Students explore more complex geometric situations and deepen their explanations of geometric relationships, moving towards formal mathematical arguments. Seven critical areas comprise the Geometry course: Logic and Proofs; Points, Lines, Angles, and Planes; Triangles; Quadrilaterals and Other Polygons; Circles; Transformations; and Three-dimensional Solids. The eight Process Standards for Mathematics apply throughout the course. Together with the content standards, the Process Standards prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.
● Recommended Grade Level: 9, 10, 11, 12
● Recommended Prerequisites: Algebra I
● Credits: 2 semester course, 1 credit per semester
● Counts as a Mathematics course for all diplomas
● Fulfills the Geometry requirement for the Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

2562 – CALCULUS AB, ADVANCED PLACEMENT (CALC AB AP)

AP Calculus AB is a course based on the content established and copyrighted by the College Board. The course is not intended to be used as a dual credit course. AP Calculus AB is equivalent to a first semester college calculus course devoted to topics in differential and integral calculus. This course covers topics in these areas, including concepts and skills of limits, derivatives, definite integrals, and the Fundamental Theorem of Calculus. The course
teaches students to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and to make connections amongst these representations. Students learn how to use technology to help solve problems, experiment, interpret results, and support conclusions.

• Recommended Grade Level: 11, 12
• Required Prerequisites: Precalculus with grades of **B- or better**. OR Teacher Approval
• Credits: 2 semester course, 1 credit per semester
• Counts as a Mathematics Course for all diplomas
• Qualifies as a quantitative reasoning course

2564 PRE-CALCULUS:ALGEBRA I / 2566 PRE-CALCULUS TRIGONOMETRY (PRECAL)

Pre-Calculus: Algebra extends the foundations of algebra and functions developed in previous courses to new functions, including exponential and logarithmic functions, and to higher-level sequences and series. The course provides students with the skills and understandings that are necessary for advanced manipulation of angles and measurement. Pre-Calculus is made up of five strands: Polar Coordinates and Complex Numbers; Functions; Quadratic, Polynomial, and Rational Equations and Functions; Exponential and Logarithmic Equations and Functions; and Parametric Equations. Students will also advance their understanding of imaginary numbers through an investigation of complex numbers and polar coordinates. The course is designed for students who expect math to be a major component of their future college and career experiences, and as such it is designed to provide students with strong foundations for calculus and other higher-level math courses. The eight Process Standards for Mathematics apply throughout the course. Together with the content standards, the Process Standards prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

Pre-Calculus: Trigonometry provides students with the skills and understandings that are necessary for advanced manipulation of angles and measurement. Trigonometry provides the foundation for common periodic functions that are encountered in many disciplines, including music, engineering, medicine, finance, and nearly all other STEM disciplines. Trigonometry consists of seven strands: conics, unit circle, geometry, periodic functions, identities, polar coordinates, and vectors. Students will also advance their understanding of imaginary numbers through an investigation of complex numbers and polar coordinates. A strong understanding of complex and imaginary numbers is a necessity for fields such as engineering and computer programming. The eight Process Standards for Mathematics apply throughout the course. Together with the content standards, the Process Standards prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

● Recommended Grade Level: 11, 12 ● Recommended Prerequisite: Algebra II and Geometry
● Credits: For each course: 1 semester course, 1 credit per semester ● Counts as a Mathematics course for all diplomas.

2570 - AP STATISTICS (AP STAT)

AP Statistics is a course based on the content established and copyrighted by the College Board. The course is not intended to be used as a dual credit course. The AP Statistics course is equivalent to a one-semester, introductory, non-calculus-based college course in statistics.

The course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. There are four themes in the AP Statistics course: exploring data, sampling and experimentation, anticipating patterns, and statistical inference. Students use technology, investigations, problem solving, and writing as they build conceptual understanding.

• Recommended Grade Level: 11, 12
• Required Prerequisite: **Algebra II with grade of C or above.**
• Credits: 1 to 2 credit course, 1 credit per semester. Due to the level of rigor, it is recommended that AP Statistics be offered as a 2 semester, 2 credit course.
• Counts as a Mathematics Course for all diplomas
• Qualifies as a quantitative reasoning course

MULTIDISCIPLINARY

0500 - BASIC SKILLS DEVELOPMENT (BAS SKLS)
Basic Skills Development is a multidisciplinary course that provides students continuing opportunities to develop basic skills including: (1) reading, (2) writing, (3) listening, (4) speaking, (5) mathematical computation, (6) note taking, (7) study and organizational skills, and (8) problem-solving skills, which are essential for high school course work achievement. Determination of the skills to be emphasized in this course is based on Indiana's standards, individual school corporation general curriculum plans, and the student's Individualized Education Programs (IEP) or other individualized plans. Skills selected for developmental work provide students with the ability to continue to learn in a range of different life situations.
• Recommended Grade Level: 9, 10, 11, 12
• Recommended Prerequisites: None • Credits: 1 credit per semester up to 8 semesters, 8 credits maximum
• Counts as an Elective for all diplomas
0500A APPLIED BASIC SKILLS DEVELOPMENT • Recommended Grade Level: 11, 12 • Applied Units: 8 units maximum • Counts as an Employability Requirement, Capstone Course or Elective for the Certificate of Completion

0502 - CADET TEACHING EXPERIENCE (CADET TCHG)
This elective course provides students in grade twelve (12) organized exploratory teaching experiences in grades kindergarten (K) through grade eight (8). 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 teaching 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. The total workload of the Cadet Teaching course is comparable to those for other subjects in the high school curriculum.
• Recommended Grade Level: 12
• Recommended Prerequisites: None - Students should have an interest in a career in education.
• Credits: 2 credits per semester, up to 2 semesters, 4 credits maximum
• Cadet teaching experience for high school students is limited to grades kindergarten through grade eight
• Counts as a Directed Elective or Elective for all diplomas

0520 - PEER TUTORING (PEER TUTR)
Peer Tutoring provides high school students with an organized exploratory experience to assist students in kindergarten through grade twelve (K-12), through a helping relationship, with their studies and personal growth and development. The course provides opportunities for the students taking the course to develop a basic understanding of individual differences and to explore career options in related fields. Peer Tutoring experiences are preplanned by the teacher trainer and any cooperating teacher under whom the tutoring is to be provided. It must be conducted under the supervision of a licensed teacher. The course provides a balance of class work relating to the development of and use of: (1) listening skills, (2) communication skills, (3) facilitation skills, (4) decision-making skills, and (5) teaching strategies.
• Recommended Grade Level:, 11 or 12
• Recommended Prerequisites: GPA of 2.5 or higher
• Credits: 1 to 2 semester course, 1 credit per semester, 2 credits maximum May only be taken two semesters for credit. • Counts as an Elective for all diplomas

TEACHER ASSISTANT/OFFICE ASSISTANT/LIBRARY ASSISTANT (No Credit)
Students may choose to use their study hall time to assist an assigned teacher, the office, or the library. Students do not receive credit for being an assistant. Students may only be assigned one period per semester as an assistant. **NO CREDIT. ***Students must maintain passing grades for 9 wks/semester in order to continue as an assistant. Failing a class will mean returning to study hall.**

SCIENCE

5276 - ANATOMY AND PHYSIOLOGY (A & P) *(Offered 2022-2023)*
Anatomy & Physiology is a course in which students investigate concepts related to Health Science, with emphasis on interdependence of systems and contributions of each system to the maintenance of a healthy body. It introduces students to the cell, which is the basic structural and functional unit of all organisms, and covers tissues, integumentary, skeletal, muscular, and nervous systems as an integrated unit. Through instruction, including laboratory activities, students apply concepts associated with Human Anatomy & Physiology. Students will understand the structure, organization and function of the various components of the healthy body in order to apply this knowledge in all health related fields.
● Recommended Grade Level: 11, 12
● Recommended Prerequisites: Biology
● Credits: 1 semester course, 1 credit per semester, 2 credits maximum
● Counts as a Directed Elective or Elective for all diplomas
● Fulfills a science course requirement for all diplomas

3020 - AP BIOLOGY (L) (BIO AP)
AP Biology is a course based on the content established and copyrighted by the College Board. The course is not intended to be used as a dual credit course. The major themes of the course include: The process of evolution drives the diversity and unity of life, Biological systems utilize free energy and molecular building blocks to grow, to reproduce and to maintain dynamic homeostasis, Living systems store, retrieve, transmit and respond to information essential to life processes, Biological systems interact, and these systems and their interactions possess complex properties. • Recommended Grade Level: 11, 12 • Recommended Prerequisite: Biology I and Chemistry I • Credits: 2 semester course, 1 credit per semester • Counts as a Science Course for all diplomas
• Qualifies as a quantitative reasoning course

3024 - BIOLOGY I (L) (Offered every year)
Biology I is a course based on regular laboratory and field investigations that include a study of the structures and functions of living organisms and their interactions with their environment. At a minimum, students enrolled in Biology I explore the functions and processes of cells, tissues, organs, and systems within various species of living organisms and the roles and interdependencies of organisms within populations, communities, ecosystems, and the biosphere. Students work with the concepts, principles, and theories of the living environment. In addition, students enrolled in this course are expected to: (1) gain an understanding of the history of the development of biological knowledge, (2) explore the uses of biology in various careers, and (3) investigate biological questions and problems related to personal needs and societal issues.
*Prerequisite(s): None
*Course qualifies for Core 40, Core 40 with Academic Honors, and Core 40 with Technical Honors
*Two-semester, two credit course

3060 - AP CHEMISTRY (L) (CHEM AP) *(Offered 2022-2023)*
AP Chemistry is a course based on the content established and copyrighted by the College Board. The course is not intended to be used as a dual credit course. The content includes: (1) structure of matter: atomic theory and structure, chemical bonding, molecular models, nuclear chemistry; (2) states of matter: gasses, liquids and solids, solutions; and (3) reactions: reaction types, stoichiometry, equilibrium, kinetics and thermodynamics.
• Recommended Grade Level: 12
• Recommended Prerequisite: Chemistry I, Algebra II, Pre-Calculus/Trigonometry
• Credits: 2 semester course, 1 credit per semester• Counts as a Science Course for all diploma
• Qualifies as a quantitative reasoning course

3064 - CHEMISTRY I (L) *(Offered every year)*
Chemistry I is a course based on regular laboratory investigations of matter, chemical reactions, and the role of energy in those reactions. Students enrolled in Chemistry I compare, contrast, and synthesize useful models of the structure and properties of matter and the mechanisms of its interactions. In addition, students enrolled in this course are expected to: (1) gain an understanding of the history of chemistry, (2) explore the uses of chemistry in various careers, (3) investigate chemical questions and problems related to personal needs and societal issues, and (4) learn and practice laboratory safety.
*Prerequisite(s): Algebra I. Students taking Algebra II while they are taking Chemistry will have an advantage over others. Students must have at least a C in previous science courses or the instructor's approval.
*Course qualifies for Core 40, Core 40 with Academic Honors, and Core 40 with Technical Honors
*Two-semester; two credit course

3044 - EARTH AND SPACE SCIENCE I (L) (EAS SCI I) *(Offered 2023-2024)*
Earth and Space Science I is a course focused on the following core topics: universe; solar system; Earth cycles and systems; atmosphere and hydrosphere; solid Earth; Earth processes. Students analyze and describe earth's interconnected systems and examine how earth's materials, landforms, and continents are modified across geological time. Instruction should focus on developing student understanding that scientific knowledge is gained from observation of natural phenomena and experimentation, by designing and conducting investigations guided by theory, and by evaluating and communicating the results of those investigations according to accepted procedures.
● Recommended Grade Level: 9, 10, 11, 12 ● Credits: 2 semester course, 1 credit per semester
● Counts as an Elective for all diplomas ● Fulfills a science course requirement for all diplomas

3108 - INTEGRATED CHEMISTRY-PHYSICS (L) (ICP) *(Offered 2022-2023)*
Integrated Chemistry-Physics is a course focused on the following core topics: constant velocity; uniform acceleration; Newton's Laws of motion (one dimension); energy; particle theory of matter; describing substances; representing chemical change; electricity and magnetism; waves; nuclear energy. Instruction should focus on developing student understanding that scientific knowledge is gained from observation of natural phenomena and experimentation by designing and conducting investigations guided by theory and by evaluating and communicating the results of those investigations according to accepted procedures.
● Recommended Grade Level: 9
● Recommended Prerequisite: Algebra I (may be taken concurrently with this course)
● Credits: A two credit course ● Counts as an Elective for all diplomas
● Fulfills a science (physical) course requirement for all diplomas

3084 - PHYSICS I (L) (PHYS I)
Physics I is a course focused on the following core topics: constant velocity; constant acceleration; forces; energy; linear momentum in one dimension; simple harmonic oscillating systems; mechanical waves and sound; simple circuit analysis. Instruction should focus on developing student understanding that scientific knowledge is gained from observation of natural phenomena and experimentation, by designing and conducting investigations guided by theory, and by evaluating and communicating the results of those investigations according to accepted procedures.
● Recommended Grade Level: 10, 11
● Recommended Prerequisites: Algebra II Grade of C or better; Concurrent enrollment in Pre Calculus recommended.
● Credits: 2 semester course, 1 credit per semester ● Counts as an Elective for all diplomas
● Fulfills a science (physical) course requirement for all diplomas
● Qualifies as a quantitative reasoning course

3092 – ADVANCED SCIENCE, FORENSICS (SPECIAL TOPICS) (ADV SCI FORNSCS) *(Offered 2023-2024)*
Advanced Science, Special Topics is any science course that is grounded in extended laboratory, field, and literature investigations in one or more specialized science disciplines, such as anatomy/physiology, astronomy, biochemistry, botany, ecology, electromagnetism, genetics, geology, nuclear physics, organic chemistry, etc. Students enrolled in this course engage in an in-depth study of the application of science concepts, principles, and unifying themes that are unique to that particular science discipline and that address specific technological, environmental or health-related issues. Under the direction of a science advisor, students enrolled in this course will complete an end-of-course project and presentation, such as a scientific research paper or science fair project, integrating knowledge, skills, and concepts from the student's course of study. Individual projects are preferred, but group projects may be appropriate if each student in the group has specific and unique responsibilities. ● Recommended Grade Level: 11, 12 ● Recommended Prerequisites: none
● Credits: 1 semester course, 1 credit per semester, may be offered for successive semesters ● Counts as a science course for all diplomas

030A APPLIED LIFE SCIENCE
Applied 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 all living organisms, general concepts of genetics, and the relationships of living organisms to each other and to the environment as a whole.
● Recommended Grade Level: 9, 10, 11, 12 ● Applied Units: 2 units maximum
● Counts as an Elective or Science Requirement for the Certificate of Completion

SOCIAL STUDIES

1508 Citizenship and Civics (CIVICS)
Citizenship and Civics is an overview of citizenship roles and responsibilities designed to help students become independent thinkers and conscientious citizens. This course deals with political trends and behavior which citizens consider to be relevant to the most pressing issues of the day. The course provides students with experiences that will develop attitudes of citizenship within a democratic society. Topics include: (1) the policymaking process, (2) public participation in policymaking, (3) citizenship rights and responsibilities in a changing society, and (4) the relationship between modern society and government. Study of the local government should be a component of this course.
● Recommended Grade: none ● Required Prerequisites: none ● Recommended Prerequisites: none
● Credits: 1 semester course, 1 credit per semester ● Counts as an Elective for all diplomas

1514 - ECONOMICS (ECON)
Economics is the social studies course that examines the allocation of scarce resources and their alternative uses for satisfying human wants. This course analyzes the economic reasoning used as consumers, producers, savers, investors, workers, voters, and government agencies make decisions. Key elements of the course include a study of scarcity and economic reasoning, supply and demand, market structures, the role of government, national income determination, money and the role of financial institutions, economic stabilization, and trade. Students will explain that because resources are limited, people must make choices in all aspects of daily life and demonstrate understanding of the role that supply, demand, prices, and profits play in a market economy. Students will examine the functions of government in a market economy and study market structures including the organization and role of businesses. Students will understand the role of economic performance, money, stabilization policies, and trade of the United States. While the economic way of thinking involves scientific tools and techniques, economics remains a social science, which endeavors to systematically study the behavior of people, institutions, and societies.
*Prerequisite(s): Senior requirement for graduation; **Currenlty Qualifies a Quantitative Reasoning Class.**
*Course qualifies for Core 40, Core 40 with Academic Honors, and Core 40 with Technical Honors
*One-semester, one credit

1516 Ethnic Studies (ETH STUDIES)
Ethnic Studies provides opportunities to broaden students' perspectives concerning lifestyles and cultural patterns of ethnic groups in the United States. This course will either focus on a particular ethnic group or groups, or use a comparative approach to the study of patterns of cultural development, immigration, and assimilation, as well as the contributions of specific ethnic or cultural groups. The course may also include an analysis of the political impact of ethnic diversity in the United States.
● Recommended Grade: none ● Required Prerequisites: none ● Recommended Prerequisites: none
● Credits: 1 semester course, 1 credit ● Counts as an Elective for all diplomas
● Must be offered at least once per school year

1518 Indiana Studies (IN STUDIES)
Indiana Studies is an integrated course that compares and contrasts state and national developments in the areas of politics, economics, history, and culture. The course uses Indiana history as a basis for understanding current policies, practices, and state legislative procedures. It also includes the study of state and national constitutions from a historical perspective and as a current foundation of government. Examination of individual leaders and their roles in a democratic society will be included and students will examine the participation of citizens in the political process. Selections from Indiana arts and literature may also be analyzed for insights into historical events and cultural expressions.
● Recommended Grade: none ● Required Prerequisites: none ● Recommended Prerequisites: none
● Credits: 1 semester course, 1 credit per semester ● Counts as an Elective for all diplomas
● Must be offered at least once per school year

1518A APPLIED INDIANA STUDIES

Applied Indiana Studies is an integrated course that compares and contrasts state and national developments in the areas of politics, economics, history, and culture. The course uses Indiana history as a basis for understanding current policies, practices, and state legislative procedures. Examination of individual leaders (state or local) and their roles in a democratic society will be included. Students will examine the participation of citizens in the political process to understand their role. Selections from Indiana arts and literature may also be analyzed for insights into historical events and cultural expressions.

● Recommended Grade Level: none ● Applied Units: 2 units maximum

● Counts as a Social Studies Requirement or Elective for the Certificate of Completion

1508 Applied Citizenship and Civics (CIVICS)

Applied Citizenship and Civics is an overview of citizenship roles and responsibilities designed to help students become independent thinkers and conscientious citizens. This course deals with political trends and behavior which citizens consider to be relevant to the most pressing issues of the day. The course provides students with experiences that will develop attitudes of citizenship within a democratic society. Topics include: (1) the policymaking process, (2) public participation in policymaking, (3) citizenship rights and responsibilities in a changing society, and (4) the relationship between modern society and government. Study of the local government should be a component of this course.

● Recommended Grade: none● ● Recommended Prerequisites: none ● Applied Units: 2 units maximum

● Counts as an Elective, Employability or Social Studies Requirement for the Certificate of Completion

1532 - PSYCHOLOGY (PSYCH)

Psychology is the scientific study of mental processes and behavior. The course is divided into eight content areas: History and Scientific Method, Biological Basis for Behavior, Development, Cognition, Personality and Assessment, Abnormal Psychology, Socio-Cultural Dimensions of Behavior, and Psychological Thinking. History and Scientific Method explores the history of psychology, the research methods used, and the ethical
considerations that must be utilized. Biological Basis for Behavior focuses on the way the brain and nervous system function, including sensation, perception, motivation and emotion. Development analyzes the changes through one's life including the physical, cognitive, emotional, social and moral development. Cognition focuses on learning, memory, information processing, and language development. Personality and Assessment explains the approaches used to explain one's personality and the assessment tools used. Abnormal Psychology explores psychological disorders and the various treatments used for them. Socio-Cultural Dimensions of Behavior covers topics such as conformity, obedience, perceptions, attitudes and influence of the group on the individual. Psychological Thinking explores how to think like a psychologist and expand critical thinking skills needed in the day-to-day life of a psychologist.

● Recommended Grade Level: none ● Recommended Prerequisites: none ● Credits: 1 semester course, 1 credit

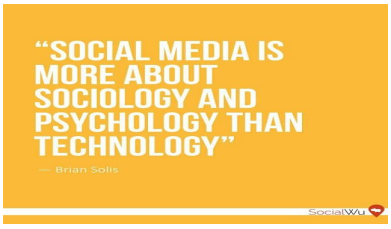
● Counts as an Elective for all diplomas

1534 - SOCIOLOGY (SOC)

Sociology allows students to study human social behavior from a group perspective. The sociological perspective is a method of studying recurring patterns in people's attitudes and actions and how these patterns vary across time, cultures, and in social settings and groups. Students describe the development of sociology as a social science and identify methods of research. Through research methods such as scientific inquiry students examine society, group behavior, and social structures. The influence of culture on group behavior is addressed through institutions such as the family, religion, education, economics, community organizations, government, and political and social groups. The impact of social groups and institutions on 272 Indiana Department of Education High School Course Titles and Descriptions group and individual behavior and the changing nature of society will be examined. Influences on group behavior and social problems are included in the course. Students also analyze the role of individuals in the community and social problems in today's world.

● Recommended Grade Level: 11, 12 ● Recommended Prerequisites: none ● Credits: 1 semester course, 1 credit

● Counts as an Elective for all diplomas



1540 - UNITED STATES GOVERNMENT (US GOVT)

United States Government provides a framework for understanding the purposes, principles, and practices of constitutional representative democracy in the United States. Responsible and effective participation of citizens is stressed. Students understand the nature of citizenship, politics, and governments and understand the rights and responsibilities of citizens and how these are part of local, state, and national government. Students examine how the United States Constitution protects rights and provides the structure and functions of various levels of government. Analysis of how the United States interacts with other nations and the government's role in world affairs is included in this course. Using primary and secondary resources, students will articulate, evaluate, and defend positions on political issues. As a result, they will be able to explain the role of individuals and groups in government, politics, and civic activities and the need for civic and political engagement of citizens in the United States.

- Recommended Grade Level: 12
- Recommended Prerequisites: none
- Credits: 1 semester course, 1 credit per semester
- Fulfills the Government requirement for all diplomas

1542 - UNITED STATES HISTORY (US HIST)

United States History is a two-semester course that builds upon concepts developed in previous studies of U.S. History and emphasizes national development from the late nineteenth century into the twenty-first century. After reviewing fundamental themes in the early development of the nation, students are expected to identify and review significant events, persons, and movements in the early development of the nation. The course then gives major emphasis to the interaction of key events, people, and political, economic, social, and cultural influences in national developments from the late nineteenth century through the present as they relate to life in Indiana and the United States. Students are expected to trace and analyze chronological periods and examine the significant themes and concepts in U.S. History. Students develop historical thinking and research skills and use primary and secondary sources to explore topical issues and to understand the cause for changes in the nation over time.

- Recommended Grade Level: none
- Recommended Prerequisites: none
- Credits: 2 semester course, 1 credit per semester
- Fulfills the US History requirement for all diplomas

1562 - AP UNITED STATES HISTORY (US HIST AP)

AP United States History is a course based on the content established and copyrighted by the College Board. The course is not intended to be used as a dual credit course. AP United States History focuses on developing students' abilities to think conceptually about U.S. history from approximately 1491 to the present and apply historical thinking skills as they learn about the past. Seven themes of equal importance — identity; peopling; politics and power; work, exchange, and technology; America in the world; environment and geography; and ideas, beliefs, and culture — provide areas of historical inquiry for investigation throughout the course. These require students to reason historically about continuity and change over time and make comparisons among various historical developments in different times and places.

- Recommended Grade Level: 11, 12
- Recommended Prerequisites: none. Students should be able to read a college level textbook and write grammatically correct, complete sentences.
- Credits: 2 semester course, 1 credit per semester
- Fulfills the US History requirement for all diplomas

1548 - WORLD HISTORY AND CIVILIZATION (WLD HST/CVL)

World History and Civilization 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 and process skills 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.

- Recommended Grade Level: 10
- Recommended Prerequisites: none
- Credits: 2 semester course, 1 credit per semester
- Fulfills the Geography History of the World/World History and Civilization graduation requirement for all diplomas

WORLD LANGUAGE

2120 - SPANISH I (SPAN I)

Spanish I, a course based on Indiana's Academic Standards for World Languages, introduces students to effective strategies for beginning Spanish language learning, and to various aspects of Spanish-speaking culture. This course encourages interpersonal communication through speaking and writing, providing opportunities to make and respond to basic requests and questions, understand and use appropriate greetings and forms of address, participate in brief guided conversations on familiar topics, and write short passages with guidance. This course also emphasizes the development of reading and listening comprehension skills, such as reading isolated words and phrases in a situational context and comprehending brief written or oral directions. Additionally, students will examine the practices, products and perspectives of Spanish-speaking culture; recognize basic routine practices of the target culture; and recognize and use situation-appropriate non-verbal communication. This course further emphasizes making connections across content areas and the application of understanding Spanish language and culture outside of the classroom.

● Recommended Grade Level: 9, 10, 11, 12 ● Recommended Prerequisites: none
● Credits: 2 semester course, 1 credit per semester● Counts as a Directed Elective or Elective for all diplomas
● Fulfills a World Language requirement for the Core 40 with Academic Honors Diploma

2122 - SPANISH II (SPAN II)

Spanish II, a course based on Indiana's Academic Standards for World Languages, builds upon effective strategies for Spanish language learning by encouraging the use of the language and cultural understanding for self-directed purposes. This course encourages interpersonal communication through speaking and writing, providing opportunities to make and respond to requests and questions in expanded contexts, participate independently in brief conversations on familiar topics, and write cohesive passages with greater independence and using appropriate formats. This course also emphasizes the development of reading and listening comprehension skills, such as using contextual clues to guess meaning and comprehending longer written or oral directions. Students will address the presentational mode by presenting prepared material on a variety of topics, as well as reading aloud to practice appropriate pronunciation and intonation. Additionally, students will describe the practices, products and perspectives of Spanish-speaking culture; report on basic family and social practices of the target culture; and describe contributions from the target culture. This course further emphasizes making connections across content areas and the application of understanding Spanish language and culture outside of the classroom.

● Recommended Grade Level: 9, 10, 11, 12 ● Required Prerequisites: Spanish I
● Credits: 2 semester course, 1 credit per semester ● Counts as a Directed Elective or Elective for all diplomas
● Fulfills a World Language requirement for the Core 40 with Academic Honors Diploma

2124 - SPANISH III (SPAN III)

Spanish III, a course based on Indiana's Academic Standards for World Languages, builds upon effective strategies for Spanish language learning by facilitating the use of the language and cultural understanding for self-directed purposes. This course encourages interpersonal communication through speaking and writing, providing opportunities to initiate, sustain and close conversations; exchange detailed information in oral and written form; and write cohesive information with greater detail. This course also emphasizes the continued development of reading and listening comprehension skills, such as using cognates, synonyms and antonyms to derive meaning from written and oral information, as well as comprehending detailed written or oral directions. Students will address the presentational mode by presenting student-created material on a variety of topics, as well as reading aloud to practice appropriate pronunciation and intonation. Additionally, students will continue to develop understanding of Spanish speaking culture through recognition of the interrelations among the practices, products and perspectives of the target culture; discussion of significant events in the target culture; and investigation of elements that shape cultural identity in the target culture. This course further emphasizes making connections across content areas as well the application of understanding Spanish language and culture outside of the classroom.

● Recommended Grade Level: 9, 10, 11, 12 ● Required Prerequisites: Spanish I and II
● Credits: 2 semester course, 1 credit per semester● Counts as a Directed Elective or Elective for all diplomas
● Fulfills a World Language requirement for the Core 40 with Academic Honors Diploma

DUAL CREDIT Course Offerings (DC)

Advanced Speech & Communication - 12
Advanced Life Science - Animals - 11,12
Agribusiness Management - 11,12
Animal Science - 9,10,11, 12
Horticulture Science - 10, 11, 12
Landscape Management - 11,12
Natural Resources - 9,10,11,12
Plant & Soil Science - 9,10,11,12
Vocational Programs - NCAVC courses have college credit opportunities that students can pursue

ADVANCED PLACEMENT Course Offerings (AP)

Biology (Every Other Year 21-22)
Calculus AB
Chemistry (Every Other Year) (22-23)
English Language & Composition (junior year)
English Literature & Composition (senior year)
Physics
Statistics
US History (junior year)

QUANTITATIVE REASONING CLASSES:

Core 40 and Honors diploma students must have a math or QR course **each year** of high school. General diploma students must have a math or QR course in their junior or senior year.
Although many students take math in grade 12, this requirement is generally fulfilled by the requirement of Economics taking during the senior year. Options in other subject areas:
Agriculture: ALS - Animals; Agribusiness Management; Landscape Management
Business: Business Math; Advanced Acct; Personal Financial Responsibility
Science: AP Biology, Chemistry, AP Chemistry, Physics, AP Physics, Integrated Chem-Physics
Trades: Construction II, Precision Mach. I & II;Automation & Robotics.

CREDIT RECOVERY

For students who fail a required class or fall behind on credits for graduation, credit recovery is available through Grad Point. Grad Point is for credit recovery **not** credit replacement. Only students who have credits to recover should consider Grad Point. Students must make adequate progress in credit recovery. Failure to do so could result in removal from the credit recovery program. Students will have a period of the day called “GradPoint,” designated for working on credit recovery classes.
Students who have a conflict in their schedule may have the option to use Grad Point to resolve a course conflict. This will be handled on an individual basis. Consideration will also be given to students who wish to graduate in seven semesters and students who transfer from another school after the semester has begun.

Students in the Class of 2023 and beyond must fulfill a Graduation Pathway

Graduation Requirements	Graduation Pathway Options
#1 **High School Diploma**	Meet diploma requirements and other graduation expectations Core 40, AHD, THD, General
#2 **Employability Skills**	Students must complete one of the following: O Project-Based Learning O Service-Based Learning O Work-Based Learning Students must complete the Employability Skills Verification
#3 **Postsecondary-Ready Competencies**	Students must fulfill one of the following: *Honors Diploma *ACT or SAT minimum scores *ASVAB score of 31 or higher (AFQT) *CTE Concentrator (C average or higher) *AP/ Dual Credit (3 classes) *Credential or Certification *Approved Apprenticeship

8th Grade classes taken for high school credit.

4528 Digital Applications and Responsibility (DIG APPS RESP)

Digital Applications and Responsibility prepares students to use technology in an effective and appropriate manner in school, in a job, or everyday life. Students develop skills related to word processing, spreadsheets, presentations, and communications software. Students learn what it means to be a good digital citizen and how to use technology, including social media, responsibly. Students expand their knowledge of how to use digital devices and software to build decision-making and problem-solving skills. Students should be provided with the opportunity to seek industry-recognized digital literacy certifications.

- Recommended Grade:For 8th grade, others may enroll if not taken before
- Required Prerequisites: none
- Recommended Prerequisites: none
- Credits: 1 to 2 semester course, 1 credit per semester, 2 credits maximum
- Counts as a Directed Elective or Elective for all diplomas *Taken in 8th grade for high school credit.

5394 – PREPARING FOR COLLEGE AND CAREERS (PREP CC) (Taken in 8th Grade)

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 employability skills; transferring school skills to life and work; and managing personal resources. This course includes reviewing the 16 national career clusters and Indiana's College and Career Pathways, in-depth investigation of one or more pathways, reviewing graduation plans, developing career plans, and developing personal and career portfolios. A project based approach, including computer and technology applications, cooperative ventures between school and community, simulations, and real life experiences, is recommended.
Recommended Grade Level: 9 (Taken in 8th grade for high school credit)
Recommended Prerequisites: none
Credits: 1 semester course, 1 credit per semester
Counts as a Directed Elective or Elective for all diplomas
Qualifies as a quantitative reasoning course
5394A APPLIED PREPARING FOR COLLEGE AND CAREERS ● Recommended Grade Level: 9,10,11,12 ● Applied Units: 2 units maximum ● Counts as an Elective or Employability requirement for the Certificate of Completion

5056 – INTRODUCTION TO AGRICULTURE, FOOD AND NATURAL RESOURCES *(Offered Every Year)*

Introduction to Agriculture, Food and Natural Resources is a two semester course that is highly recommended as a prerequisite to and as a foundation for all other agricultural classes. Through hands-on learning activities, students are encouraged to investigate areas of agriculture. Students are introduced to the following areas of agriculture: animal science, plant and soil science, food science, horticultural science, agricultural business management, natural resources, agriculture power, structure, and technology, careers in agriculture, leadership, and supervised agricultural experience. An activity and project based approach is used along with team building to enhance the effectiveness of the student learning activities.

- Recommended Grade Level: 8, 9
- Recommended Prerequisites: none
- Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum
- Counts as a Directed Elective or Elective for all diplomas

4518 - Introduction to Business INTRO BUS) Introduction to Business introduces students to the world of business, including the concepts, functions, and skills required for meeting the challenges of operating a business in the twenty first century on a local, national, and/or international scale. The course covers business management, entrepreneurship, marketing fundamentals, and business ethics and law. The course develops business vocabulary and provides an overview of business and the role that business plays in economic, social, and political environments. •Recommended Grade(s): 9, 10 •Required Prerequisites: none •Recommended Prerequisites: none •Credits: 1 to 2 semester course, 1 credit per semester, 2 credits maximum •Counts as a directed elective or elective for all diplomas

NEXT LEVEL PROGRAMS OF STUDY - COURSE TITLES & SEQUENCE

AUTOMOTIVE SERVICE - 5510 (I) 5546 (II)

1.	Principles of Automotive Services	PRIN AUTO SER	7213
2.	Break Systems	AUTO BRK ELE	7205
3.	Steering and Suspensions	ENG PERF	7212

AVIATION MANAGEMENT (Aviation Flight) 5524

1.	Principles of Aviation Management	PRIN AVI MAN	7214
2.	Private Pilot Theory	PRIV PLT THRY	7217
3.	Aviation Safety & Operations	A VI SAF OPS	7207

CONSTRUCTION TRADES 5580 (I) 5578 (II)

1.	Principles of Construction Trades	PRIN CON TR	7130
2.	Construction Trades: General Carpentry	CON TRD GC	7123
3.	Construction Trades Framing & Finishing	CON TRD FR FIN	7122

COSMETOLOGY 5802 (I) 5806 (II)

1.	Principles of Barbering & Cosmetology	PRIN COSMO	7330
2.	Barbering & Cosmo Fundamentals	STY COSMO	7331
3.	Advanced Cosmetology	ADV COSMO	7332

CRIMINAL JUSTICE 5822 (Law & Public Safety)

1.	Principles of Criminal Justice	PRIN CR JUST	7193
2.	Law Enforcement Fundamentals	LAW ENF CLT AWR	7191
3.	Corrections & Cultural Awareness	CRT CORR	7188

FIRE AND RESCUE 5820 (I)

1.	Principles of Fire & Rescue	PRN PS HAZ AWR	7195
2.	Fire Fighting Fundamentals	FIRE RIGHT FUN	7189
3.	Advanced Fire Fighting	ADV FIRE FGHT	7186

EARLY CHILDHOOD EDUCATION 5412 (I) 5406 (II)

1.	Principles of Early Childhood Education	PRIN EAR CH ED	7160
2.	ECE Curriculum	EAR CHD ED CUR	7158
3.	ECE Guidance	EAR CHD EDU GD	7159

EMERGENCY MEDICAL TECHNICIAN (EMS – Emergency Medical Services) 5210

1.	Principles of Healthcare	PRIN HLCR	7168
2.	Medical Terminology	MED TERMS	5274
3.	Emergency Medical Tech	EMT	7165

GRAPHIC IMAGING 5572 (I) 4576 (II)

1.	Principles of Digital Design	PRIN DIG DES	7140
2.	Digital Design Graphics	DIG DES GRAPH	7141
3.	Graphic Design & Layout	GRAPH DES LT	5550

(Hospitality) CULINARY ARTS 5440

1.	Principles of Culinary & Hospitality	PRIN HOSP	7173
2.	Nutrition	FD THRY NUT	7171
3.	Culinary Arts	CUL ARTS	7169

HEALTH SCIENCES EDUCATION 5282 (I) 5284 (II) (Pre-Nursing)

1.	Principles of Healthcare	PRINC HLCR	7168
2.	Medical Terminology	MED TERMS	5274
3.	Healthcare Specialist: CNA	HC SPEC CAN	7166

INDUSTRIAL AUTOMATION & ROBOTICS 5610

1.	Principles of Adv. Manufacturing	PRIN ADV MAN	7108
2.	Advanced Manufacturing Tech	ADV MAN TECH	7103
3.	Mechatronic Systems	MECH SYS	7106

PRECISION MACHINING 5782 (I)

1.	Principles of Precision Machining	PRIN PREC MACH	7109
2.	Precision Machining Fundamentals	MACH FUN	7105
3.	Advanced Precision Machining	PREC MACH	7107

RADIO & TELEVISION I 5986

1.	Principles of Broadcasting	PRIN BROAD	7139
2.	Audio/Video Production Essentials	ADV VID PROD	7306
3.	Mass Media Production	MASS MED PROD	7307

WELDING 5776 (I) 5778 (II)

1.	Principles of Welding Technology	PRIN WEL TCH	7110
2.	Shielded Metal Arc Welding	SHLD MAW	7111
3.	Gas Welding Processes	GAS WEL PROC	7101

(In House)	**AGRICULTURE**	**1. Principles of Agriculture**	**PRIN AG**	**7117**

All Agriculture Pathways must include **Principles of Agriculture**

AGRISCIENCE – ANIMALS

2.	Animal Science	ANML SCI	5008
3.	Advance Life Sci – Animals	ALS ANIML	5070

AGRISCIENCE – PLANT / FOOD

2.	Plant/Soil Science	PLT SL SCI	5170
3.	Advance Life Sci – Plants	ALS PLT/SL	5074

HORTICULTURE

2.	Horticulture Science NLPS	HORT SCI	5132
3.	Greenhouse and Soilless	GRN S PROD	7114

NATURAL RESOURCES

2.	Natural Resources	NAT RSS	5180
3.	Sustainable Energy Alternatives	SUS NRG	5229

LANDSCAPING

2.	Horticulture Science	HORT SCI	5132
3.	Landscape & Turf Management	LAN TUR MAN	7115

(In House) BUSINESS

FINANCE/ACCOUNTING

1.	Principles of Business Mgt	PRIN BUS	4562
2.	Accounting Fundamentals	ACC FUN	4524
3.	Advanced Accounting	ADV ACC	4522

MARKETING/MARKETING & SALES

1.	Princ of Business Mgt	PRIN BUS	4562
2.	Marketing Fundamentals	PRN MRKT	5914
3.	Strategic Marketing	STRT MRKT	5918