

INDIAN CREEK HIGH SCHOOL
STUDENT SERVICES CENTER

2026-2027

Indian Creek Academic

&

Career Planning Guide

Class of 2029-2030



POLICY NOTIFICATION STATEMENT

It is the policy of Indian Creek High School not to discriminate on the basis of race, color, religion, sex, national origin, age, limited English proficiency, or handicap, in its programs or employment policies as required by the Indiana Civil Rights Act (I.C. 22-9.1), Title VI and VII (Civil Rights Act of 1964), the Equal Pay Act of 1973, Title IX (Educational Amendments), and Section 504 (Rehabilitation Act of 1973). This guide gives details about academic planning for all students who plan to graduate from Indian Creek High School.

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INDIAN CREEK HIGH SCHOOL STUDENT SERVICES CENTER

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COURSES AND SCHEDULING

Transition to High School

Eighth graders are introduced to Indian Creek High School through three programs:

1. Parent Night: Counselors meet with eighth-grade parents to review high school programs.
2. Classroom Presentations: Counselors meet with eighth-grade students during the spring semester to explain curriculum and scheduling.
3. Individual Meetings: Counselors meet one-on-one with each student to review course plans and answer questions.

Students take their course request sheet home for parent/guardian review and signature. No schedule changes may be made after May 1st.

Scheduling Process

Each winter, high school counselors conduct small-group scheduling meetings with students in grades 9 - 11 to plan courses for the upcoming year. Students receive access to the Indian Creek Course Planning Guide and an explanation of the course selection system. After group meetings, students will meet individually with their counselor to finalize choices and ask questions. Parents have a short period to review and approve course requests.

Schedule Changes must be completed by May 1st of the previous school year. The master schedule is built based on student requests; therefore, no schedule changes will be made after May 1st of the previous school year. Teacher preference requests cannot and will not be accommodated. **Schedule changes** are permitted only for reasons including computer error, course cancellation, conflicts, unmet prerequisites, improper placement, balancing, or administrative reasons. Alternate electives will be used in conflicts.

Intra-Department Course Change requests require effort, documentation, and approval by teachers and student services departments.

Indiana law requires all students to carry a full schedule (8 periods). Early release may be granted only for verified financial need requiring employment that must be approved by the building principal.

Specialized Programs and Credit Options

Johnson County Special Services (Applied Courses): Modified instruction for students pursuing an Alternate Diploma, determined by a Case Conference Committee.

Indian Creek Learning Center (ICLC): Alternative environment for individualized support. Juniors may not graduate early; seniors may complete coursework early. Students must earn a minimum of 7 credits per semester and follow ICHS policies. Juniors perform community service; seniors complete volunteer/work programs. ICLC students are not eligible for IHSAA athletics or other extra curricular activities.

NHJ Empower (Online Learning): Available to juniors/seniors with 2.7 GPA. Requires an application, attendance at a parent/student meeting, passing grades to remain enrolled, and adherence to deadlines. Failure to complete all of these requirements will result in removal of the empower course.

Dual Credit Opportunities: Ivy Tech (via DualEnroll) and Indiana University ACP courses allow earning college and high school credit simultaneously. IU tuition is reduced and often covered. Credits transfer via official college transcript.

Indiana College Core (ICC): Indian Creek High School has partnered with IU Bloomington to offer the Indiana College Core. In this program students will complete a 30 credit hour block of courses that will transfer to course credit at IU or other Indiana public institutions. Students will also develop the critical thinking, time management, and work ethic skills necessary to succeed in college. This 30 credit hour block of courses is equal to an average year of college coursework. It is a great way for students to get a jump start on their college career and save time and money.

Alternative and Early Graduation Options

Seven Semester Graduation: Juniors may apply to graduate after seven semesters. Requirements include being on track for a Core 40 or higher diploma, completing Graduation Pathways, and taking English 12 second semester in the summer before senior year. Diplomas are awarded at the regular ceremony.

Six Semester Graduation: Students apply during sophomore year. Requires minimum 3.0 GPA, completion of Graduation Pathways, and School Board approval. Students complete English 11 (summer) and English 12 (junior year) and may participate fully in senior activities.

Credit, Grades, and Academic Policies

High School Credit: Most courses earn 1 credit per semester. **Exceptions:**

Central Nine (3–4 credits),
Supervised Agriculture (1 credit/summer),
Career Exploration/ Capstone Courses (2 credits),
Study Hall/Resource (0 credits)

Excessive absences (7+ per semester) may result in loss of credit.

Eighth-Grade Credits: Eighth graders may earn high school credit in Algebra I, Health, Preparing for College & Careers, and Intro to Agriculture; grades count in GPA.

Audit and Independent Study: Up to 4 audited classes allowed; repeated classes replace lower grade. Independent Study requires teacher and counselor approval.

Grading System:

A (100-93)	B+ (89-87)	C+ (79-77)	D+ (69-67)
A- (92-90)	B (86-83)	C (76-73)	D (66-63)
	B- (82-80)	C- (72-70)	D- (62-60)

Semester grades: 40% Q1 + 40% Q2 + 20% Exam.

GPA & Rank: Weighted courses add +1 quality point. Class rank updated each semester; Valedictorian/Salutatorian based on 8th semester GPA.

Incompletes: Must be completed within 10 days. All incompletes must be approved by the principal prior to the end of the semester.

Withdraw/Fail: Withdraw/Fail (WF) counts as an F in GPA. A grade of WF (Withdraw/Fail) may be given for two reasons: 1) when the student is removed from a class for disciplinary reasons, and 2) when a student withdraws from a class after the first 10 school days of the semester.

Report Cards: Issued four times per year, available via Infinite Campus or Student Services. Academic concerns should be addressed to teachers or the Building-Based Support Team.

Graduation and Beyond

Graduation Requirements: Beginning with the Class of 2029, Indiana introduces new diploma tracks (Enrollment, Employment, Enlistment) with optional Honors/Plus Seals. Details regarding diploma requirements can be found on the [Indiana New Diploma Document](#). Students wanting to earn the Enrollment Honors or Plus Seals need to follow the math sequence below.

Mathematics Sequences:

Math sequence with Algebra in 8th grade

Grade	Math Course
8	Algebra
9	Geometry Honors
10	Algebra II (or Honors)
11	Pre-Calc (or Honors)/Finite
12	Calculus

Math sequence beginning Algebra freshman year

Grade	Math Course
9	Algebra
10	Geometry Honors
11	Algebra II (or Honors)
12	Pre-Calc (or Honors)/Finite

7. Career & Technical Education

Indiana NLPS Pathways prepare students for high-skill, high-wage careers and include Work-Based Learning Capstone experiences.

Governor's Work Ethic Certification (GWEC): Students demonstrate Integrity, Motivation, Professionalism, Adaptability, Communication, and Teamwork. Senior requirements: 2.0 GPA, 98% attendance, ≤1 behavior referral, 6+ service hours.

Testing and Postsecondary Planning

Testing: PSAT 8/9 & PSAT–NMSQT (grades 9–11); SAT (grade 11, state accountability); AP Exams (required for enrolled students, \$99 Music Theory fee).

Postsecondary Options: 4-year or 2-year college, technical school, military, apprenticeship, or workforce.

College Admissions Recommendations: English 4 years; Math 4 years; Science 3–4 years; Social Studies 3 years; World Language 2–3 years.

Applications & Transcripts: The Student Services Office can help you send your high school transcript through Parchment when applying to colleges or scholarships.

If you took dual credit classes, you must request those college transcripts directly from Ivy Tech or Indiana University:

- Visit Ivy Tech’s “[How to Order Transcripts](#)” page for instructions.
- Visit IU’s *ACP Student Handbook* and see the “[Transcripts and Transferring Credits](#)” section.

Letters of Recommendation: If you need a letter of recommendation, complete a Senior Profile and give your teacher or counselor at least 7 days’ notice.

Athletic Eligibility:

Students planning to play college sports should register early with:

- NCAA: ncaa.org/student-athletes/future/how-register
- NAIA: play.mynaiia.org

COURSE DESCRIPTIONS

NHJ Empower

Special Note: Each of these courses require an application and will be available online only. If approved, students and their parents will also sign a contract for participation in this program. These courses follow the same deadlines as any other ICHS course. To be accepted into an Empower course, students and parents must attend a mandatory informational meeting, to be held after students submit their course requests.

NHJ EMPOWER SOCIOLOGY 1534: This is an online only course. This course provides an opportunity for students to study human social behavior and interaction from a group perspective. The sociological perspective is a distinct method of studying recurring patterns in people's attitudes and actions and how these patterns vary across time, among cultures, and in social groups. Students will describe the development of sociology as a social science and identify methods and strategies of research. Students examine society, group behavior, and social structures through research methods using scientific inquiry. The influence of culture on group behavior is addressed through areas of content including social institutions such as the family, religion, education, economics, government, community organizations, and political and social groups. Students will also explore the impacts of social groups and social institutions on individual and group behavior and examine the changing nature of society.

OPEN TO:	Grades: 11 - 12
PREREQUISITES:	Application
ONE SEMESTER COURSE	

NHJ EMPOWER PHOTOGRAPHY 4062: This is a completely online class. In this course students will be creating photographs and videos utilizing a variety of digital tools and learning about darkroom processes. The students will continue to apply their knowledge of the principles and elements of art. In addition, they will learn about compositional guidelines used in photography to help them improve the quality of their own work. Students will learn how photography has been used through the ages and its significance in history. Students will have a variety of projects to help them showcase their talents and artistic eye. This course will also give the student the opportunity to explore career options related to photographic imagery.

OPEN TO:	Grades: 11 - 12
PREREQUISITES:	2D Art and Adv. 2D Art with a C or better, Application
ONE SEMESTER COURSE	

NHJ EMPOWER- MARINE BIOLOGY (Advanced Science, 3092): This is an online only course. Whether an Alorganism is lurking in the deep shadows of the ocean, or socializing in a school of fish, how do the fields of anatomy, physiology, and behavioral ecology unite the diversity of a marine ecosystem? In this course, Marine Biology, you will study how ocean life exists in the midst of salinity, pressure, and water circulation. To begin this journey, you will first explore how marine environments are arranged. Then, several fields will be

examined, such as: food chains, anatomy and physiology of organisms, behavioral ecology, and current topics in the field. Marine Biology is only offered as an online course and students will meet with the teacher to take a final exam at the conclusion of each semester.

OPEN TO:	Grades: 11 - 12
PREREQUISITES:	Biology I and Chemistry I with a C- or higher, Application
FULL YEAR COURSE	

NHJ EMPOWER TEACHING & LEARNING 7162: This is an online course. Teaching and Learning provides students the opportunity to apply many of the concepts that they have learned throughout the Education Professions pathway. In addition to a focus on best practices, this course will provide an introduction to the role that technology plays in the modern classroom. Through hands-on experience with educational software, utility packages, and commonly used microcomputer hardware, students will analyze ways to integrate technology as a tool for instruction, evaluation, and management. Dual credit through Ivy Tech.

OPEN TO:	Grades: 11 - 12
PREREQUISITES:	Principles of Teaching
FULL YEAR COURSE	

Indian Creek Learning Center

CAREER EXPLORATION INTERNSHIP 0530: This course is a paid or unpaid work experience in the public or private sector that provides for workplace learning in an area of student career interests. Unlike a cooperative education program in which students gain expertise in a specific occupation, the career exploration internship is intended to expose students to broad aspects of a particular industry or career cluster area by rotating through a variety of work sites or departments. In addition to their workplace learning activities, students participate in 1) regularly scheduled meetings with their classroom teacher, or 2) a regularly scheduled seminar with the teacher for the purpose of helping students make the connection between academic learning and their work-related experiences. Specific instructional standards tied to the career cluster or pathway and learning objectives for the internship must be written to clarify the expectations of all parties – the student, parent, employer, and instructor.

OPEN TO:	Grades: 12
PREREQUISITES:	Must work a minimum of 270 hours per semester
FULL YEAR COURSE	

COMMUNITY SERVICE 0524 : Community Service is a course that allows students in grades nine through twelve the opportunity to earn up to two high school credits for completion of approved community service projects or volunteer service that relates to a course in which the student is enrolled or intends to enroll.

OPEN TO:	Grades: 11
PREREQUISITES:	None
FULL YEAR COURSE	

Advanced Manufacturing

ADVANCED MANUFACTURING PATHWAY

Adv Manufacturing Pathway	Year One	Year Two	Year Three
Advanced Manufacturing	Principles of Advanced Manufacturing	Advanced Manufacturing Technology	Industrial Maintenance Fundamentals

PRINCIPLES OF ADVANCED MANUFACTURING 7108: 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.

OPEN TO:	Grades: 9 - 12
PREREQUISITES:	None
FULL YEAR COURSE	

ADVANCED MANUFACTURING TECHNOLOGY 7103: 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.

OPEN TO:	Grades: 10 - 12
PREREQUISITES:	Principles of Advanced Manufacturing
FULL YEAR COURSE	

INDUSTRIAL MAINTENANCE FUNDAMENTALS 7104: Industrial Maintenance Fundamentals introduces students to fundamental Welding and Machining skills. Students will be introduced to basic skills in welding, cutting and brazing, and machine tooling that are applicable in a wide variety of trade professions. Specifically, students will learn safe practices in oxy-fuel and Arc welding processes along with experience in using turning, milling, and grinding applications.

OPEN TO:	Grades: 11 - 12
PREREQUISITES:	Principles of Advanced Manufacturing, Adv Mfg Technology
FULL YEAR COURSE	

Agriculture Department

Agriculture Pathways	Year One	Year Two	Year Three
Agriscience Animals	Principles of Ag	Animal Science	ALS: Animals
Agriscience Plants	Principles of Ag	Plant & Soil	ALS: Plants
Agristructure	Principles of Ag	Ag, Power, Structure	Ag Structures Design & Fabrication

PRINCIPLES OF AGRICULTURE 7117: 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 and the role of agriculture in the United States and globally. Topics covered in the course range from animals, plants, food, natural resources, ag power, structures and technology, as well as careers. This is the first course in the NLPS graduation pathway studies for all agricultural pathways.

OPEN TO:	Grades: 9 - 11
PREREQUISITES:	None
FULL YEAR COURSE	
NOTES:	Course one of Ag pathway sequence. Dual credit through Ivy Tech contingent on GPA.

AGRICULTURE POWER, STRUCTURE AND TECHNOLOGY 5088: This is a yearlong shop-based course in which students develop an understanding of basic principles in the following areas; hand tool identification, electricity, plumbing, carpentry, and concrete. There will be a large focus on safety as well as a more in-depth concentration on metal technology and welding, career opportunities in agriculture power, structure, and technology, small engines, post-secondary education in the field of agriculture power, structure, and technology, as well as supervised agriculture experience.

OPEN TO:	Grades: 10 - 12
PREREQUISITES:	Principles of Agriculture
FULL YEAR COURSE	
NOTES:	

ANIMAL SCIENCE 5008: This is a yearlong course offered every year that provides students with an overview of the animal science field. This course will cover both large and small animal production. Topics covered include anatomy and physiology, genetics, reproduction, animal nutrition, common diseases and parasites, management practices for each species, and common products from each species. We will also discuss current social and political issues related to animal agriculture.

OPEN TO:	Grades: 10 - 12
PREREQUISITES:	Principles of Agriculture
FULL YEAR COURSE	
NOTES:	This course can be taken for dual credit through Ivy Tech contingent on GPA.

ADVANCED LIFE SCIENCE: ANIMALS 5070: This course 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.

OPEN TO:	Grades: 10 - 12
PREREQUISITES:	Principles of Agriculture
FULL YEAR COURSE	
NOTES:	This course counts as a science course for all diplomas. This course can be taken for dual credit contingent on GPA.

AGRIBUSINESS CAPSTONE 7238: This course is a two-semester course that introduces students to the Principles of agribusiness management and leadership from a local and global perspective, with the utilization of technology. The course will help students build a strong knowledge base of the agribusiness industry as they study agribusiness types, communications, agricultural law, leadership, and teamwork, ethics, and agricultural economics. Additionally, students will understand the role of selling in the agricultural economy, stressing the points and terminology necessary in today's agriculture. Students will demonstrate principles and techniques for planning, development, application and management of agribusiness systems through project-based learning and supervised agricultural experience programs.

OPEN TO:	Grades: 11-12
PREREQUISITES:	Any Agriculture Concentrator Sequence. Application required.
FULL YEAR COURSE	

SUPERVISED AGRICULTURAL EXPERIENCE 5228: Supervised Agricultural Experiences is offered each summer. This course is designed to provide an opportunity for students to take what they have learned in the classroom and gain real-life experience in the agriculture field. This could be a paid or unpaid position and could include working with parents, neighbors, local businesses, or the students-owned business. The students will work closely with the agriculture science and business teachers, parents, and their employers to get the most out of the SAE program.

OPEN TO:	Grades: 9 - 12
PREREQUISITES:	Application process with instructor
ONE SEMESTER COURSE	
NOTES:	May be repeated for credit.

AGRICULTURE STRUCTURES FABRICATION AND DESIGN 7112: Agricultural Structures Fabrication and Design is a two-semester course that focuses on metal work and agricultural structures. This course will allow students to develop skills in welding and metalworking such as metal identification and properties, metal preparation, use of oxy acetylene torch, plasma cutting and cutting operations, arc welding, MIG welding, TIG welding. This course will also allow students to develop skills in construction in regard to the ag industry such as carpentry, masonry, etc.

OPEN TO:	Grades: 10 - 12
PREREQUISITES:	Principles of Agriculture, Ag Power
FULL YEAR COURSE	
NOTES:	Counts as a directed elective or elective credits for all diplomas and is third course in agristructure pathway.

PLANT AND SOIL SCIENCE 5170: This year-long course offered during Rotation "B" provides students a basic understanding of plant science and soil science. This course will include some hands-on activities that could include trips to the greenhouse and around the school grounds. Topics covered in this course include but are not limited to: components of soil, development of soil, soil uses and functions, soil tillage and conservation, soil drainage, plant taxonomy, plant growth, plant propagation, plant functions, environmental factors affecting plant growth and soil erosion, fertilizer applications, and careers in Plant and Soil Science.

OPEN TO:	Grades: 10 - 12
PREREQUISITES:	Principles of Agriculture
FULL YEAR COURSE	

ADVANCED LIFE SCIENCE: PLANTS AND SOILS 5074: This course 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.

OPEN TO:	Grades: 10 - 12
PREREQUISITES:	Principles of Agriculture
FULL YEAR COURSE	
NOTES:	This course counts as a science course for all diplomas. This course can be taken for dual credit through Ivy Tech contingent on GPA.

Art Department

Art Pathway	Year One	Year Two	Year Three
Business Management	2D/ Adv 2D or 3D/ Adv 3D	2D/ Adv 2D or 3D/ Adv 3D	Drawing/ Photography/ Painting

INTRODUCTION TO 2D ART 4000: This is an introductory course that will enhance the student's knowledge of the Elements of Art and Principles of Design and will help them incorporate that knowledge into increasing their artistic abilities. The students will work with a variety of two-dimensional media, including pencil, pastels, charcoal, pen and ink, marker, and watercolor. In addition to increasing their skills they will learn how to evaluate their own artwork and work to improve upon their art skills. The students will also learn about famous artists, art styles and art's role in history.

OPEN TO:	Grades: 9 - 12
PREREQUISITES:	None
ONE SEMESTER COURSE	

ADVANCED 2D ART 4004: This class is a continuation of the first semester class 2-D Art. Students will delve deeper into learning various skill sets and focus more on the Principles of Design. A few of the projects included are drawing people, cartoons and working with watercolor. Students will continue to learn about various artists and major movements during history.

OPEN TO:	Grades: 9 - 12
PREREQUISITES:	Intro to 2D Art
ONE SEMESTER COURSE	

INTRODUCTION TO 3D ART 4002: This is a basic class for the student interested in art, but feel that they might not have drawing skills. In this class the students will learn about the Elements of Art and Principles of Design and how to use both to create unique works of art. The students will work with a variety of art media including clay, paper-mache, wire and plaster. Individual and group projects will occur that involve problem-solving, creative thinking and cooperative learning transform two-dimensional ideas into forms. Students will learn how to critique and analyze their work to check for the implementation of the Elements and Principles. Students will learn the significance of art and artists and of their place in history.

OPEN TO:	Grades: 9 - 12
PREREQUISITES:	None
ONE SEMESTER COURSE	

ADVANCED 3D ART 4006: This is a continuation of the 3-D class and is for the student interested in art, but feel that they might not have drawing skills. In this class the students will continue to learn about the Elements of Art and Principles of Design and how to use both to create unique works of art. The students will work with a variety of art media including clay, paper-mache, wire and plaster. Individual and group projects will occur that

involve problem-solving, creative thinking and cooperative learning transform two-dimensional ideas into forms. Students will learn how to critique and analyze their work to check for the implementation of the Elements and Principles. Students will learn the significance of art and artists and of their place in history.

OPEN TO:	Grades: 9 - 12
PREREQUISITES:	Intro to 3D Art
ONE SEMESTER COURSE	

SCULPTURE 4044: Students in sculpture engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production. Using materials such as plaster, clay, metal, paper, wax, and plastic, students create portfolio quality work. Art museums, galleries, studios, and community resources are utilized.

OPEN TO:	Grades: 10 - 12
PREREQUISITES:	Intro to 3D Art & Adv 3D Art with a C or better
ONE SEMESTER COURSE	

DRAWING 4060: This class is more for the serious artist that is into art. In this course students will increase their perceptual and expressive skills through the use of a wide variety of drawing tools and media. Students create drawings utilizing processes such as sketching, rendering, contour, gesture, and perspective drawing. The students will focus more on organizing the principles and elements to solve specific assignments. Artistic styles will be studied more in-depth. The students will apply various media, techniques, and processes with sufficient skill to communicate intended meaning. Projects assigned will use a variety of media such as pencil, chalk, pastels, charcoal, and pen and ink.

OPEN TO:	Grades: 10 - 12
PREREQUISITES:	Intro to 2D Art & Adv 2D Art with a C or better
ONE SEMESTER COURSE	

PAINTING 4064: This class is more for the serious artist that is into painting. In this course students will increase their perceptual and expressive skills through the use of a wide variety of painting tools and media. Students create paintings utilizing processes such as sketching, rendering, contour, gesture, and perspective painting. The students will focus more on organizing the principles and elements to solve specific assignments. Artistic styles will be studied more in-depth. The students will apply various media, techniques, and processes with sufficient skill to communicate intended meaning. Projects assigned will use a variety of media such as acrylic, watercolor and oil paints.

OPEN TO:	Grades: 10 - 12
PREREQUISITES:	Intro to 2D Art & Adv 2D Art with a C or better
ONE SEMESTER COURSE	

NHJ EMPOWER PHOTOGRAPHY 4062: This is a completely online class. In this course students will be creating photographs and videos utilizing a variety of digital tools and learning about darkroom processes. The students will continue to apply their knowledge of the principles and elements of art. In addition, they will learn about compositional guidelines used in photography to help them improve the quality of their own work. Students will learn how photography has been used through the ages and its significance in history. Students

will have a variety of projects to help them showcase their talents and artistic eye. This course will also give the student the opportunity to explore career options related to photographic imagery.

OPEN TO:	Grades: 10 - 12
PREREQUISITES:	Intro to 2D Art & Adv 2D Art with a C or better, Application
ONE SEMESTER COURSE	

VISUAL COMMUNICATION 4086: This course is designed for the student interested in pursuing an education in art. Students will create advertising designs and utilize graphic design, typography, illustration, and computer technologies. Students will produce a portfolio of their work throughout the year and from previous art courses. This will allow them to explore career options related to visual communication.

OPEN TO:	Grades: 11 - 12
PREREQUISITES:	Drawing, painting
ONE SEMESTER COURSE	

Business Department

Business Pathways	Year One	Year Two	Year Three
Management	Business Management	Management Fundamentals	Accounting Fundamentals
Accounting	Business Management	Accounting Fundamentals	Advanced Accounting
Marketing & Sales	Business Management	Marketing Fundamentals	Strategic Marketing

PREPARING FOR COLLEGE AND CAREERS 5394: This course 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 life and career skills; communication and leadership processes; exploration of personal aptitudes, interests, values, and goals; 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, investigation of one or more pathways, reviewing graduation plans and developing career plans.

OPEN TO:	Grades: 8-12
PREREQUISITES:	None
ONE SEMESTER COURSE	

PRINCIPLES OF BUSINESS MANAGEMENT 4562: 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.

OPEN TO:	Grades: 9-12
PREREQUISITES:	None
FULL YEAR COURSE	

ACCOUNTING FUNDAMENTALS 4524: Course curriculum is designed to provide students a strong foundation in accounting principles. Students will learn what business transactions are and how accountants use a double-entry system (debits and credits) to keep track of these transactions. Next students will study the complete accounting cycle of recording transactions, preparing financial statements, and “closing the books” for small, single-owner service and merchandising businesses. Accounting is designed for students who someday may own their own business or work in an office performing basic accounting duties. This course will provide a beginning foundation.

OPEN TO:	Grades: 10 - 12
PREREQUISITES:	Principles of Business Management
FULL YEAR COURSE	

ADVANCED ACCOUNTING 4522: This course expands on the Generally Accepted Accounting Principles (GAAP) and procedures for proprietorships and partnerships using double-entry accounting covered in Introduction to 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.

OPEN TO:	Grades: 11 - 12
PREREQUISITES:	Principles of Business Management
FULL YEAR COURSE	

MANAGEMENT FUNDAMENTALS 7143: Management Fundamentals describes the functions of managers, including the management of activities and personnel. Describes the judicial system and the nature and sources of law affecting business. Studies contracts, sales contracts with emphasis on Uniform Commercial Code Applications, remedies for breach of contract and tort liabilities. Examines legal aspects of property ownership, structures of business ownership, and agency relationships.

OPEN TO:	Grades: 10 - 12
PREREQUISITES:	Principles of Business Management
FULL YEAR COURSE	

MARKETING FUNDAMENTALS 5914: 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.

OPEN TO:	Grades: 10 - 12
PREREQUISITES:	Principles of Business Management
FULL YEAR COURSE	

STRATEGIC MARKETING 5918: 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.

OPEN TO:	Grades: 10 - 12
PREREQUISITES:	Principles of Business Management, Marketing Fundamentals
FULL YEAR COURSE	

COMPUTER SCIENCE PATHWAY

Computer Science Pathway	Year One	Year Two	Year Three
Computer Science	Principles of Computing	Topics in Computer Science	Computer Science

PRINCIPLES OF COMPUTING 7183: Principles of Computing introduces students to terminology, concepts, theory and fundamental skills used to implement information systems. Topics include the history and trends of computing, operating systems, database technology, security, cloud implementations and other concepts associated with applying the principles of good information management to the organization. Additionally, students will be introduced to algorithms, logic development and flowcharting as tools used to document computer logic through the use of basic scripting and simple programming code.

*Principles of Computing is AP optional

OPEN TO:	Grades: 9-11
PREREQUISITES:	None
FULL YEAR COURSE	

TOPICS IN COMPUTER SCIENCE 7351: Topics in Computer Science is designed for students to investigate emerging disciplines within the field of computer science. Students will use foundational knowledge from 7183 Principles of Computing to study the areas of data science, artificial intelligence, app/game development, and

security. Students will utilize knowledge related to these areas and programming skills to develop solutions to authentic problems.

OPEN TO:	Grades:10-12
PREREQUISITES:	Principles of Computing
FULL YEAR COURSE	

COMPUTING FOUNDATIONS FOR A DIGITAL AGE 4565: Computers and the internet have revolutionized the way we access and disseminate information. As technology continues to change at an ever increasing pace, the need for students to gain a foundational understanding of computer science is clear. Computing Foundations for a Digital Age is designed to introduce students to 5 major topics within computer science including computing systems, networks and the internet, data and analysis, algorithms and planning, and impacts of computing. The course introduces foundational computing concepts while exploring current events and building critical thinking, collaboration, problem solving, and other important skills that are invaluable for life in a global and technologically advancing society.

OPEN TO:	Grades:8-12
PREREQUISITES:	None
ONE SEMESTER COURSE	

PERSONAL FINANCIAL RESPONSIBILITY 4540: Personal Financial Responsibility focuses on the financial responsibilities of adult and family life. This course helps students build skills in decision making; analyze personal standards, needs, wants, and goals; identify sources of income, saving and investing; understand banking, budgeting, record-keeping and managing risk, insurance and credit. Students learn the basics of economics, consumer protection, and taxes. This course uses a project- based approach and applies basic mathematics proficiencies.

OPEN TO:	Grades: 12
PREREQUISITES:	None
ONE SEMESTER COURSE	

CAREER EXPLORATION INTERNSHIP 0530: This course is a paid or unpaid work experience in the public or private sector that provides for workplace learning in an area of student career interests. Unlike a cooperative education program in which students gain expertise in a specific occupation, the career exploration internship is intended to expose students to broad aspects of a particular industry or career cluster area by rotating through a variety of work sites or departments. In addition to their workplace learning activities, students participate in 1) regularly scheduled meetings with their classroom teacher, or 2) a regularly scheduled seminar with the teacher for the purpose of helping students make the connection between academic learning and their work-related experiences. Specific instructional standards tied to the career cluster or pathway and learning objectives for the internship must be written to clarify the expectations of all parties – the student, parent, employer, and instructor.

OPEN TO:	Grades: 12
PREREQUISITES:	Application required

FULL YEAR COURSE	
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APPLIED CAREER INFORMATION AND EXPLORATION 0522A: Applied Career Information and Exploration provides students with opportunities to learn about themselves including interests, strengths and needed supports while exploring various traditional and nontraditional occupations and careers. Students develop skills in: (1) employability, (2) understanding the economic process, and (3) career decision making and planning. Opportunities are provided for students to observe and participate in various job situations through opportunities such as community-based instruction, internships, mock interviews, and guest speakers. Portfolio and resume development experience and career- related assessments may also be provided to students.

OPEN TO:	Grades: 9 - 12
APPLIED UNITS:	4 units maximum
FULL YEAR	
NOTES:	Counts as an elective or employability requirement for the Alternate Diploma.

ACCOUNTING CAPSTONE 7252: The Accounting Capstone course will emphasize Managerial Accounting concepts and Income Tax Accounting for individuals and sole proprietorships. Topics include general versus cost accounting systems, cost behavior, cost-volume profit analysis, budgeting, standard cost systems, responsibility accounting, incremental analysis, and capital investment analysis. Offers an overview of federal and state income tax law for individuals including taxable income, capital gains and losses, adjustments, standard and itemized deductions, tax credits and appropriate tax forms. When offered for multiple credits per semester, the Accounting Capstone may be used to provide students the opportunity to participate in an intensive work-based learning experience and/or to complete additional coursework in using spreadsheets to solve accounting cases and to complete a postsecondary credential from ITCC or VU.

OPEN TO:	Grades: 12
PREREQUISITES:	Principles of Business, Accounting Fundamentals, Adv. Accounting. Application required.
FULL YEAR COURSE	

BUSINESS ADMINISTRATION CAPSTONE 7256: The Business Administration Capstone course will allow students to explore advanced topics in business leadership including Human Resources and International Business. Additionally students will have the chance to complete Managerial Accounting. Throughout the course students will develop business communication skills through work on projects, labs, and simulations. All of these courses represent key business competencies required by nearly all postsecondary Business schools.

OPEN TO:	Grades: 12
PREREQUISITES:	Principles of Business, Accounting Fundamentals, Mgmt Fundamentals. Application required.
FULL YEAR COURSE	

Construction Department

Construction Pathway	Year One	Year One	Year Two
Construction	Principles of Construction	General Carpentry	Framing and Finishing

PRINCIPLES OF CONSTRUCTION 7130: Principles of Construction Trades provides students with the basic skills needed to continue in a construction trade field. Covered topics 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 worksite safety. Additionally, students study the roles of individuals and companies within the construction industry. Emphasis is placed on the importance of mathematical and communication skills within the construction industry.

OPEN TO:	Grades: 10-12
PREREQUISITES:	None
FULL YEAR COURSE	Course is tied with General Carpentry

CONSTRUCTION TRADES: GENERAL CARPENTRY 7123: Construction Trades: General Carpentry builds upon the skills learned in the Principles of Construction Trades and examines the basics of framing. Students learn the procedures for laying out and constructing floor systems, wall systems, and ceiling joists. Students also spend time learning the principles of roof framing, and basic stair layout. Additionally, students will be introduced to building envelope systems.

OPEN TO:	Grades: 10-12
PREREQUISITES:	None
FULL YEAR COURSE	Course is tied with Principles of Construction.

CONSTRUCTION TRADES: FRAMING & FINISHING 7122: Construction Trades: Framing and Finishing prepares students with advanced framing skills along with interior and exterior finishing techniques. Covered 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.

OPEN TO:	Grades: 11-12
PREREQUISITES:	Principles of Construction and General Carpentry
FULL YEAR COURSE	Course is combined with Technical Math.

TECHNICAL MATH 7218: Technical Math is designed to help students develop mathematical reasoning and real-world skills in analyzing verbal and written descriptions, translating them into algebraic, geometric, trigonometric, and statistical statements and applying them to solve problems in fabrication, manufacturing, and business. The course will include at least six lab activities or projects to allow faculty and students to apply mathematics principles to work-related situations.

OPEN TO:	Grades: 11-12
PREREQUISITES:	Principles of Construction and General Carpentry.
FULL YEAR COURSE	Course is combined with Framing and Finishing.

English Department

ENGLISH 9 1002: Focusing on world literature and integrating the study of grammar, vocabulary, composition, and oral communication, English 9 students will read and discuss selections from the genres of short story, poetry, drama, and novel. In addition to literary works, students will also read related expository and technical material. The practice of oral communication skills will occur. This course is heavy in technology.

OPEN TO:	Grades: 9
PREREQUISITES:	None
FULL YEAR COURSE	

ENGLISH 9 HONORS 1002: The same as English 9 (see above) with additional emphasis on English concepts.

OPEN TO:	Grades: 9
PREREQUISITES:	None
FULL YEAR COURSE	Weighted

APPLIED ENGLISH 9 1002A: This course is an integrated English course based on the Indiana Content Connectors for English/Language Arts in Grades 9-10, is a study of language, literature, composition, and communication, focusing on literature and nonfiction within an appropriate level of complexity for each individual student. Students use literary interpretation, analysis, comparisons, and evaluation to read and respond to a variety of texts. Students form responses to literature, expository (informative), narrative, and argumentative/persuasive compositions, and research tasks when appropriate. Students deliver appropriate presentations with attention to audience and purpose and access, analyze, and evaluate online information.

OPEN TO:	Grades: 9 - 10
APPLIED UNITS:	4 units maximum
FULL YEAR COURSE	Counts as an English/Language arts requirement for the Alternate Diploma.

ENGLISH 10 1004: This course continues to promote the analysis of text and the process of writing while further developing students' understanding of the historical and cultural significance of literature. Students will read a variety of fiction and nonfiction texts spanning many genres. The course will also continue to emphasize the importance of reading as a lifelong pursuit. Students will develop a working Academic Vocabulary of terms essential to the mastery of Indiana's College and Career Readiness Standards. These words are ingrained in all that we do in the classroom from reading, to analysis, and writing conventions. Students will refine their writing skills by continual exposure to the writing process. Consistent practice with drafting, editing, revising, and rewriting will help students improve their writing and communication skills while also learning to more clearly articulate their ideas. Special attention will be given to constructing clear thesis statements and developing cohesive paragraphs. Fundamentals such as grammar rules, standard usage, and sentence

structure will be practiced daily. Finally, students will utilize technology regularly to effectively communicate, conduct research, and create projects.

OPEN TO:	Grades: 10
PREREQUISITES:	English 9
ONE SEMESTER COURSE	

ENGLISH 10 HONORS 1004: Students in English 10 Honors will cover the same standards and skills as English 10, but at a greater depth and level of rigor.

OPEN TO:	Grades: 10
PREREQUISITES:	English 9 or English 9 Honors
ONE SEMESTER COURSE	Indiana College Core Track, Weighted

APPLIED ENGLISH 10 1004A: This course is an integrated English course based on the Indiana Content Connectors for English/Language Arts in Grades 9-10, is a study of language, literature, composition, and communication, focusing on literature and nonfiction within an appropriate level of complexity for each individual student. Students use literary interpretation, analysis, comparisons, and evaluation to read and respond to a variety of texts. Students form responses to literature, expository (informative), narrative, and argumentative/persuasive compositions, and research tasks when appropriate. Students deliver ability appropriate presentations with attention to audience and purpose and access, analyze, and evaluate online information.

OPEN TO:	Grades: 9 - 10
APPLIED UNITS:	4 units maximum
FULL YEAR COURSE	Counts as an English/Language arts requirement for the Alternate Diploma.

ADVANCED ENGLISH COLLEGE CREDIT 1124 (ENG L111 ACP): Advanced English/ Language Arts, College Credit, is an advanced course based on the Indiana Academic Standards for English/ Language Arts in grades 11 and 12. This course title covers any English Language and Composition advanced course offered for credit by an accredited post secondary institution through an adjunct agreement with a secondary school.

OPEN TO:	Grades: 11
PREREQUISITES:	Students must have attempted both English 9 and English 10.
SEMESTER LONG COURSE	Indiana College Core Course, Weighted

APPLIED ENGLISH 11 1006A: This course is 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.

OPEN TO:	Grades: 11 - 12
APPLIED UNITS:	4 units maximum
FULL YEAR COURSE	Counts as an English/Language arts requirement for the Alternate Diploma.

ENGLISH 12 1008 (ENG W131 ACP): This is a dual credit course through Indiana University ACP program. W131 is a course in academic writing that attempts to integrate critical reading, thinking, and writing about phenomena and issues in our culture. Rather than practicing a set of discrete skills or often unrelated modes of discourse, the course aims to build sequentially on students' ability to read both written and cultural texts closely and critically and to analyze those texts in ways that also engage and problematize students' own experience, the perspectives of "experts," and the world they live in.

W131 aims to show students how the use of sources, agreement/disagreement, and personal response can be made to serve independent, purposeful, and well-supported analytical writing.

In summary, the course offers instruction and practice in reading, writing, and critical thinking skills required in college. Emphasis is on written assignments that require synthesis, analysis, and argument based on sources.

This is taken from <https://english.indiana.edu/undergraduate/courses/composition-courses.html>

OPEN TO:	Grades: 12
PREREQUISITES:	2.70 GPA
SEMESTER COURSE	Indiana College Core Course, Weighted
NOTES:	Students must purchase a textbook.

ENGLISH 12 1008 (ENG L202 ACP): This is a dual credit course through Indiana University's ACP program. This course develops critical skills essential to participation in the interpretive process. Through class discussion and focused writing assignments, introduces the premises and motives of literary analysis and critical methods associated with historical, generic, and/or cultural concerns. Taken from : <https://bulletins.iu.edu/iub/college/2012-2013/departments/english/courses.shtml>

OPEN TO:	Grades: 12
PREREQUISITES:	2.70 GPA
SEMESTER LONG COURSE	Indiana College Core Course, Weighted
NOTES:	Students must purchase a textbook.

APPLIED ENGLISH 12 1008A: This course is 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.

OPEN TO:	Grades: 11 - 12
APPLIED UNITS:	4 units maximum
FULL YEAR COURSE	Counts as an English/Language arts requirement for the Alternate Diploma.

SPEECH 1076: Speech, a course based on the Indiana Academic Standards for English/Language Arts, is the study and application of the basic principles and techniques of effective oral communication. Students deliver focused and coherent speeches that convey clear messages, using gestures, tone, and vocabulary appropriate to the audience and purpose. Students deliver different types of oral and multimedia presentations, including viewpoint, instructional, demonstration, informative, persuasive, and impromptu. Students use the same Standard English conventions for oral speech that they use in their writing.

OPEN TO:	Grades 10
PREREQUISITES:	None.
ONE SEMESTER COURSE	

JOURNALISM/ ADV JOURNALISM 1080: Journalism, a course based on the Indiana Academic Standards for English/Language Arts and the Indiana High School Journalism Standards, is a study of news elements, journalism history, First Amendment law, ethics, fact, and opinion, copy editing, news, and features as they apply to print and digital media products. It includes a comparison study of journalistic writing to other types of English writing with practical application of news, features, editorials, reviews, columns, and digital media writing forms. For the second credit: Students continue to develop journalistic writing skills in addition to studying graphic design, advertising, public relations, photojournalism and emerging media development and design. By the end of the semester, students write, shoot, and design stories for print and digital media products.

OPEN TO:	Grades 9 - 12
PREREQUISITES:	None
FULL YEAR COURSE	

Family and Consumer Science Department

Teaching Pathway	Year One	Year Two	Year Three
	Principles of Teaching	Child and Adolescent Development	Teaching and Learning
Fashion Pathway	Year One	Year Two	Year Three
	Principles of Fashion and Textiles	Textiles, Apparel, and Merchandising	Advanced Textiles
Interior Design	Year One	Year Two	Year Three
	Principles of Interior Design	Interior Design Fundamentals	Materials, Finishes, and Design
Culinary Pathway	Year One	Year Two	Year Two
	Principles of Hospitality	Nutrition	Culinary Arts

PRINCIPLES OF FASHION AND TEXTILES 7301: Principles of Fashion and Textiles prepares students for occupations and higher education programs of study related to the entire spectrum of careers in the fashion industry. This course builds a foundation that prepares students for all aspects of the fashion creation process. Major topics include: Basic clothing construction techniques, pattern alterations, and use of commercial patterns.

OPEN TO:	Grades 9 - 12
PREREQUISITES:	None
FULL YEAR COURSE	

TEXTILES, APPAREL, AND MERCHANDISING 7302: Textiles, Apparel, and Merchandising provides a comprehensive overview of the textiles, apparel and merchandising industry specific to fashion related goods including the nature of fashion, raw materials and production, designers, retailers, and supporting services

OPEN TO:	Grades 11 - 12
PREREQUISITES:	Principles of Fashion and Textiles
FULL YEAR COURSE	

ADVANCED TEXTILES 7303: Advanced Textiles will focus on the study of textiles concerning fiber, yarn, fabric construction, and finishes which affect the selection, use, and care of textiles.

OPEN TO:	Grades 11-12
PREREQUISITES:	Principles of fashion and Textiles and Apparel and Merchandising
FULL YEAR COURSE	

FASHION AND TEXTILES CAPSTONE 7304: Fashion Textile Capstone studies the evolution of Western

dress from ancient times to the twentieth century. Emphasis on representative style and change over time. Additionally, this course will focus on the Identification of physical features which affect apparel quality. Analysis of ready-to-wear apparel to identify features which produce desirable aesthetic and functional performance is also covered.

OPEN TO:	Grades 12
PREREQUISITES:	Principles of fashion, Textiles and Apparel and Merchandising, and Advanced Textiles
FULL YEAR COURSE	

PRINCIPLES OF TEACHING 7161: This course provides a general introduction to the field of teaching. Students will explore educational careers, teaching preparation, and professional expectations as well as requirements for teacher certification. Current trends and issues in education will be examined. A volunteer experience of a minimum of 20 hours is required for successful completion of this course. This course has been approved to be offered for dual credit. Students pursuing this course for dual credit are still required to meet the minimum prerequisites for the course and pass the course with a C or better in order for dual credit to be awarded.

OPEN TO:	Grades 9-11
PREREQUISITES:	None
FULL YEAR COURSE	Dual credit through Ivy Tech contingent on GPA.

CHILD AND ADOLESCENT DEVELOPMENT 7157: Child and Adolescent Development examines the physical, social, emotional, cognitive, and moral development of the child from birth through adolescence with a focus on the middle years through adolescence. Basic theories of child development, biological and environmental foundations of development, and the study of children through observation and interviewing techniques are explored. The influence of parents, peers, the school environment, culture and the media are discussed. An observation experience up to 20 hours may be required for completion of this course. This course has been approved to be offered for dual credit. Students pursuing this course for dual credit are still required to meet the minimum prerequisites for the course and pass the course with a C or better in order for dual credit to be awarded. Dual credit through Ivy Tech.

OPEN TO:	Grades 10 - 12
PREREQUISITES:	Principles of Teaching
FULL YEAR COURSE	Dual credit through Ivy Tech contingent on GPA.

TEACHING AND LEARNING 7162: Teaching and Learning provides students the opportunity to apply many of the concepts that they have learned throughout the Education Professions pathway. In addition to a focus on best practices, this course will provide an introduction to the role that technology plays in the modern classroom. Through hands-on experience with educational software, utility packages, and commonly used microcomputer hardware, students will analyze ways to integrate technology as a tool for instruction, evaluation, and management.

OPEN TO:	Grades 10 - 12
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PREREQUISITES:	Principles of Teaching
FULL YEAR COURSE	Dual credit through Ivy Tech contingent on GPA.

EDUCATION PROFESSIONS CAPSTONE 7267: This course is a hybrid course meaning part of the course will be completed online. The Education Professions Capstone provides an extended opportunity for field experience to further apply concepts that have been presented throughout the pathway. Students will also have the opportunity to explore the topics of exceptional child and literacy development through children's literature. Students will gain a deeper understanding of inclusive teaching techniques along with policies, theories, and laws related to special education. Students interested in pursuing a career in Elementary Education are encouraged to also study the benefits of using children's literature in the classroom. This course may be further developed to include specific content for students interested in pursuing a career in secondary education. The course should include a significant classroom observation and assisting experience.

OPEN TO:	Grades: 12
PREREQUISITES:	Recommended Principles of teaching, Child & Adolescent Development, and Teaching and Learning. Application required.
FULL YEAR COURSE	

PRINCIPLES OF INTERIOR DESIGN 7132: Principles of Interior Design introduces students to fundamental design theory and color dynamics as applied to compositional design. Investigations into design theory and color dynamics will provide experiences in applying design theory to three-dimensional concepts, human factors and the psychology and social influences of space. These experiences will develop student's skills in creative problem solving, peer evaluation, and presentation skills.

OPEN TO:	Grades: 9-12
PREREQUISITES:	None
FULL YEAR COURSE	

INTERIOR DESIGN FUNDAMENTALS 7127: Interior Design Fundamentals provides students with an overview of the field of interior (environmental) design, including an understanding of fundamental construction knowledge and skills needed in the field. Exercises include small scale space analysis and functional planning based on user needs, furniture arrangement and selection, materials and finishes considerations and presentation techniques. Students will also learn basics regarding building practices, building structures, residential construction techniques, building materials and plan reading. Includes building codes, sustainable design practices, and the preparation of site and renderings as they relate to construction and presentation drawings.

OPEN TO:	Grades: 10-12
PREREQUISITES:	Principles of Interior Design
FULL YEAR COURSE	

MATERIALS, FINISHES, AND DESIGN 7128: Materials, Finishes, and Design examines the physical

properties and characteristics of furniture, materials, finishes, and architectural detailing. The course includes an intensive study of textiles, including fiber sources, identification and classification to finish and sustainable qualities. Students will apply textile knowledge to interior textile fabrications including window treatments, upholstery, carpet and wall coverings. Content addresses environmental issues and problems in specifying, estimating, and installing these materials.

OPEN TO:	Grades: 11-12
PREREQUISITES:	Principles of Interior Design, Interior Design Fundamentals
FULL YEAR COURSE	

PRINCIPLES OF HOSPITALITY 7173: 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.

OPEN TO:	Grades: 9-12
PREREQUISITES:	None
FULL YEAR COURSE	

NUTRITION 7171 : 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

OPEN TO:	Grades: 10-12
PREREQUISITES:	Principles of hospitality
FULL YEAR COURSE	

CULINARY ARTS 7169: 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.

OPEN TO:	Grades: 10-12
PREREQUISITES:	Principles of hospitality
FULL YEAR COURSE	

PRINCIPLES OF EARLY CHILDHOOD DEVELOPMENT 7160: 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 part of this course.

OPEN TO:	Grades: 9-12
PREREQUISITES:	None
FULL YEAR COURSE	This pathway is not offered. Elective only.

Health and Human Services Department

Pathway	Year One	Year One	Year Two
Pre Nursing/ Healthcare Specialist	Principles of Healthcare	Healthcare Fundamentals	Healthcare Specialist/ CNA

PRINCIPLES OF HEALTHCARE 7168: Principles of Healthcare content examines 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.

OPEN TO:	10
PREREQUISITES:	Application based. Combined with healthcare fundamentals.
FULL YEAR COURSE	

HEALTHCARE FUNDAMENTALS 5274: Healthcare Fundamentals prepares students with language skills necessary for effective, independent use of health and medical reference materials. It includes the study of health and medical abbreviations, symbols, and Greek and Latin word part meanings, all taught within the context of body systems. Introduces cells, tissues, and human anatomy highlighting essential physiological principles through a systemic approach. Additionally, the course provides a general overview of basic concepts and terminology used in anatomy and physiology as applicable to health sciences and healthcare occupations. 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, abbreviations, signs, and symbols.

OPEN TO:	10
PREREQUISITES:	Application based. Course combined with principles of healthcare.
FULL YEAR COURSE	

Health and Physical Education Department

REQUIRED COURSES

HEALTH & WELLNESS 3506: This course includes the major content areas in a planned, sequential, comprehensive health education curriculum as expressed in the Indiana Health Education Proficiency Guide: (1) Growth and Development; (2) Mental and Emotional Health; (3) Community and Environmental Health; (4) Nutrition; (5) Family Life Education; (6) Consumer Health; (7) Personal Health; (8) Alcohol, Tobacco, and other Drugs Education; (9) Intentional and Unintentional Injury; and (10) Health Promotion and Disease Prevention. Students are provided with opportunities to explore the effect of health behaviors on an individual's quality of life. This course assists students in understanding that health is a lifetime commitment by analyzing individual risk factors and health decisions that promote health and prevent disease. Students are encouraged to assume individual responsibility for becoming competent health consumers. A variety of instructional strategies, including technology and hands-on learning opportunities, are used to further develop health literacy. A report at the end of the semester on any part of health that might interest the student is mandatory. A visual and an oral presentation is required along with a written final. Chapters and standards work with the state mandated standards.

OPEN TO:	Grades: 8 - 12
PREREQUISITES:	None
ONE SEMESTER COURSE	

APPLIED HEALTH & WELLNESS 3506A: This course is a course based on Indiana's Academic Standards for Health & 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.

OPEN TO:	Grades: 9 - 12
APPLIED UNITS:	2 units maximum
ONE SEMESTER COURSE	Counts as an elective or Health & Wellness requirement for the Alternate Diploma.

PHYSICAL EDUCATION I 3542: This course emphasizes health-related fitness and the development of skills and habits necessary for a lifetime of activity. This program includes skill development and the application of rules and strategies of complex difficulty in at least three of the following different movement forms: (1) health-related fitness activities (cardio respiratory endurance, muscular strength and endurance, flexibility, and body composition), (2) aerobic exercise, (3) team sports, (4) individual and dual sports, (5) outdoor pursuits, (6)

aquatics, and (7) recreational games. Ongoing assessment includes both written and performance-based skill evaluations. IEP students may have a different program. This depends on their IEP. The final consists of a mile run under a certain time. (Time to be announced per class) or you may take the written and not have to run. Reports are given to students who cannot participate for a lengthy time. This is determined by the instructor. No dresses, not participating in the activities, extreme absences could constitute a lower grade. Students complete a mile run each day. Some units will have written tests. Students will have set times for a grade - physical activities. Student grades are also based on: 1. participation 2.attitude 3. Behavior 4. Dress out.

OPEN TO:	Grades: 9 - 12
PREREQUISITES:	None
ONE SEMESTER COURSE	

PHYSICAL EDUCATION I ADVANCED 3542: This course is recommended for students who are athletes. It emphasizes health-related fitness and the development of skills and habits necessary for a lifetime of activity. This program includes skill development and the application of rules and strategies of complex difficulty in at least three of the following different movement forms: (1) health-related fitness activities (cardio respiratory endurance, muscular strength and endurance, flexibility, and body composition), (2) aerobic exercise, (3) team sports, (4) individual and dual sports, (5) outdoor pursuits,(6) aquatics, and (7) recreational games. Ongoing assessment includes both written and performance-based skill evaluations.

OPEN TO:	Grades: 9 - 12
PREREQUISITES:	None
ONE SEMESTER COURSE	
NOTES:	Athletes only and meets the state requirement for PE I.

APPLIED PHYSICAL EDUCATION I 3542A: This course 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 which are within the framework of lifetime physical activities and fitness. Ongoing assessment includes individual progress and performance-based skill evaluation.

OPEN TO:	Grades: 9 - 12
APPLIED UNITS:	2 units maximum
ONE SEMESTER COURSE	Counts as the Health & Wellness requirement for the Alternate Diploma.

APPLIED PHYSICAL EDUCATION II 3544A: This course 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 covered in Physical Education I: team sports; dual sport activities; individual physical activities; outdoor pursuits; self-defense and martial arts; aquatics; gymnastics; and dance, all which are within the framework of lifetime physical activities and fitness. Ongoing assessment includes individual progress and performance-based skill evaluation.

OPEN TO:	Grades: 9 - 12
APPLIED UNITS:	2 units maximum
ONE SEMESTER COURSE	Counts as the Health & Wellness requirement for the Alternate Diploma.

ELECTIVE COURSES

ELECTIVE PHYSICAL EDUCATION (APC) 3560: This course will concentrate on getting you ready to perform at the highest level. The student will work on muscular strength and endurance using the weight room. The student will learn the proper technique to use while in the weight room. The student will work on conditioning using various running and plyometric techniques. There will also be discussions about nutrition. Students must have a physical on file to take this course.

OPEN TO:	Grades: 10 - 12 (2nd semester freshmen may be considered.)
PREREQUISITES:	PE I or PE I ADV
ONE SEMESTER COURSE	
NOTES:	

ELECTIVE PHYSICAL EDUCATION (AQUATICS) 3560: This course will concentrate on assisting students with demonstrating safety in, on and around water. Students will learn to perform 'survival swimming strokes' such as freestyle, elementary backstroke and sidestroke. This course allows for students to demonstrate comfort and control in the water through floating, treading and efficient movement. Other crucial learning objectives include team building, communication and confidence through aquatic games and activities.

OPEN TO:	Grades: 10 - 12 (2nd semester freshmen may be considered.)
PREREQUISITES:	PE I or PE I ADV
ONE SEMESTER COURSE	
NOTES:	

ELECTIVE PHYSICAL EDUCATION (LIFETIME FITNESS) 3560: Lifetime Physical Education is designed to give students a chance to stay active, build social skills, and explore movement through play. Unlike traditional PE classes that focus on structured units or competitive sports, this course emphasizes choice, creativity, and lifelong fitness. Students will engage in a variety of recreational activities such as small-sided games (Spikeball, Four Square, Ultimate frisbee), playground inspired activities (volleyball, pick up basketball, and kickball), and lifetime fitness (walking, stretching, light movement) that encourage movement and fun in a relaxed environment. The focus is on developing physical literacy, teamwork, and stress-relief while promoting a positive attitude toward staying active.

Students will rotate between teacher-guided activities and free-choice options, ensuring both exposure to new games and the freedom to pursue personal interests. The class is ideal for students who enjoy staying active in a less competitive setting and want to rediscover the joy of play as part of a healthy lifestyle.

OPEN TO:	Grades: 9 - 12
PREREQUISITES:	PE I or PE I ADV
ONE SEMESTER COURSE	

ELECTIVE PHYSICAL EDUCATION (PILATES) 3560: This course is designed to promote physical fitness and mental health. Through yoga poses, breathing techniques, stretches, and pilates exercises, students will enhance their flexibility, strength, and balance. These workouts and exercises will be low-impact and stress reducing. The course emphasizes mindfulness and relaxation for students to create a positive mindset and develop healthy habits. Students will take away stress reducing techniques and a knowledge of movement patterns to increase their flexibility, strength, and balance skills.

OPEN TO:	Grades: 10 - 12 (2nd semester freshmen may be considered.)
PREREQUISITES:	PE I or PE I ADV
ONE SEMESTER COURSE	

APPLIED ELECTIVE PHYSICAL EDUCATION 3560A : This course is 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 cardio- respiratory 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. 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. With staff support, students have the opportunity to design and develop an appropriate personal fitness program that enables them to achieve a desired level of fitness and includes self monitoring. Ongoing assessment may include individual progress and/or performance-based skill evaluation.

OPEN TO:	Grades: 9 - 12
APPLIED UNITS:	8 units maximum
ONE SEMESTER COURSE	Counts as the Health & Wellness requirement for the Alternate Diploma.

Math Department

ALGEBRA I 2520: This course formalizes and extends the mathematics that students learned in the middle school grades. Five critical areas comprise Algebra I: Relations and Functions; Linear Equations and Inequalities; Quadratic and Nonlinear Equations; Systems of Equations and Inequalities; and Polynomial Expressions. The 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, and students engage in methods for analyzing, solving, and using quadratic functions. The Mathematical Practice Standards apply throughout each course and, together with the content 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.

OPEN TO:	Grades: 9 - 12
PREREQUISITES:	None
FULL YEAR COURSE	

APPLIED ALGEBRA I 2520A: This course formalizes and extends the mathematics students learned in the middle grades. Algebra I is made up of 4 strands: Numbers Sense, Expressions and Computation; Linear Equations, Inequalities, and Functions; Systems of Equations and Inequalities; Quadratic and Exponential Equations and Functions. The strands are further developed by focusing on the content of the Algebra content connectors.

OPEN TO:	Grades: 9 - 12
APPLIED UNITS:	4 units maximum
FULL YEAR COURSE	Counts as a math requirement for the Alternate Diploma.

GEOMETRY 2532: Geometry is a full year course that studies the relationships and properties of two- and three- dimensional geometric figures, such as lines, planes, angles, circles, triangles, quadrilaterals and other polygons, and polyhedral. Students will learn about congruence and similarity of geometric figures. Students will use trigonometric ratios to solve problems involving triangles. Students will use deductive reasoning in the development of logic and reasoning in proofs. Students will be exposed to a variety of investigative techniques, construction methods, and various styles of proofs. Technology will be used to enhance the students' understanding of Geometry. Vocabulary is a key component of Geometry. Good thinking and study skills are necessary for success in Geometry. A scientific calculator is required for this course.

OPEN TO:	Grades: 10 - 12
PREREQUISITES:	
FULL YEAR COURSE	

GEOMETRY HONORS 2532: Geometry Honors will contain all the same concepts of regular Geometry. These concepts include properties of lines, planes, angles, circles, triangles, quadrilaterals and other polygons. Students will be exposed to a variety of investigative techniques, construction methods, and various styles of proofs. Technology will be used to enhance the students' understanding of Geometry. The course will be more theory oriented, with more emphasis will be placed on logic and geometric reasoning. The difficulty of the problems will be greater than those in regular Geometry. Vocabulary is a key component of Geometry. Good

thinking and study skills are necessary for success in Geometry. A scientific calculator or graphing calculator is required for this course.

OPEN TO:	Grades: 9 - 12
PREREQUISITES:	Algebra I with a B or higher, or teacher approval
FULL YEAR COURSE	Weighted.

APPLIED GEOMETRY 2532A: This course formalizes and extends students' geometric experiences from the middle grades. These critical areas comprise the Geometry course: 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.

OPEN TO:	Grades: 9 - 12
APPLIED UNITS:	4 units maximum
FULL YEAR COURSE	Counts as a math requirement for the Alternate Diploma.

ALGEBRA II 2522: Algebra II is a full year course that expands on the topics of Algebra 1. Students will further develop the concepts of linear and quadratic functions. Students will expand the study of functions to include polynomial, rational, exponential, logarithmic, and radical functions. Additional topics of this course will include theorems and algorithms of Algebra, polynomials, rational exponents, complex numbers, sequences and series, and properties and graphs of conic sections. Problem solving will be emphasized.

OPEN TO:	Grades: 11 - 12
PREREQUISITES:	
FULL YEAR COURSE	

ALGEBRA II HONORS 2522: Algebra II Honors will contain all the same concepts of regular Algebra II, but in greater depth. Students will also cover introductory trigonometry.

OPEN TO:	Grades: 10 - 12
PREREQUISITES:	Algebra I and Geometry with a B or higher. Geometry Honors preferred or teacher approval.
FULL YEAR COURSE	Weighted.

PRE-CALCULUS: ALGEBRA 2564: Pre-Calculus: Algebra extends the foundations of algebra and functions developed in previous courses to new functions, including exponential and logarithmic functions, and to sequences and series. The course provides students with the skills and understandings that are necessary for advanced manipulation of angles and measurement. Pre-Calculus: Algebra is made up of five strands: Functions, Quadratic, Polynomial, and Rational Equations and Functions, Exponential and Logarithmic Functions, Sequences and Series, and Conics. 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 standard, 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. A graphing calculator is required for this course; recommend TI-83+ Silver Edition or TI-84.

OPEN TO:	Grades: 11 - 12
PREREQUISITES:	Algebra I, Geometry and Algebra II with a C or higher.
SEMESTER COURSE	

PRE-CALCULUS: ALGEBRA HONORS 2564 (M125 ACP): This is a dual credit course through Indiana University ACP program. Pre-Calculus: Algebra extends the foundations of algebra and functions developed in previous courses to new functions, including exponential and logarithmic functions, and to sequences and series. The course provides students with the skills and understandings that are necessary for advanced manipulation of angles and measurement. Pre-Calculus: Algebra is made up of five strands: Functions, Quadratic, Polynomial, and Rational Equations and Functions, Exponential and Logarithmic Functions, Sequences and Series, and Conics. 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 standard, 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. A graphing calculator is required for this course; recommend TI-83+ Silver Edition or TI-84.

OPEN TO:	Grades: 11 - 12
PREREQUISITES:	Algebra I, Geometry and Algebra II with an overall GPA of 2.70 or higher.
SEMESTER COURSE	Indiana College Core. Weighted

PRE-CALCULUS: TRIGONOMETRY 2566: Pre-Calculus: Trigonometry provides students with the skills and understanding 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 six strands: Unit circle, Triangles, Periodic functions, Identities, Polar Coordinates and Complex Numbers and Vectors. Students will advance their understanding of imaginary numbers through an investigation 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. A graphing calculator is required for this course; recommend TI-83+ Silver Edition or TI-84.

OPEN TO:	Grades: 11 - 12
PREREQUISITES:	Algebra I, Geometry and Algebra II with a C or higher.
SEMESTER COURSE	

PRE-CALCULUS: TRIGONOMETRY HONORS 2566 (M126 ACP): This is a dual credit course through Indiana University ACP program. Pre-Calculus: Trigonometry provides students with the skills and understanding 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 six

strands: Unit circle, Triangles, Periodic functions, Identities, Polar Coordinates and Complex Numbers and Vectors. Students will advance their understanding of imaginary numbers through an investigation 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. A graphing calculator is required for this course; recommend TI-83+ Silver Edition or TI-84.

OPEN TO:	Grades: 11 - 12
PREREQUISITES:	Algebra I, Geometry and Algebra II with an overall GPA of 2.70 or higher.
SEMESTER COURSE	Indiana College Core. Weighted

CALCULUS 2527 (M211 ACP): Calculus expands a student's knowledge of topics like functions, graphs, limits, derivatives, and integrals. Additionally, students will review algebra and functions, modeling, trigonometry, etc. Calculus is made up of five strands: Limits and Continuity; Differentiation; Applications of Derivatives; Integrals; and Applications of Integrals. 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.

OPEN TO:	Grades: 12
PREREQUISITES:	Pre-Calculus Honors with a B- or above or permission of instructor. 2.7 GPA or higher.
FULL YEAR COURSE	Indiana College Core. Weighted

FINITE MATHEMATICS 2530 (M118 ACP): This course is designed for students planning to take higher-level mathematics in college and students earning an Academic Honors diploma or Indiana College Core. An emphasis will be placed on problem solving using mathematical models. Topics include set theory, counting principles, probability, introductory statistics, matrices, linear programming, game theory, Markov chains, and mathematics of finance. A scientific or graphing calculator is required for this course. This course is good for students interested in business, social science, life science, and physical science.

OPEN TO:	Grades: 11 - 12
PREREQUISITES:	Algebra II or Algebra II Honors with a C- or above or teacher recommendation. 2.7 GPA or higher.
FULL YEAR COURSE	Indiana College Core. Weighted

Music Department

CIVIC ARTS PATHWAYS

Band Pathway	Year One	Year Two	Year Three
Business Management (anytime during pathway)	Concert Band	Concert Band or Symphonic Band	Symphonic Band
Choir Pathway	Year One	Year Two	Year Three
Business Management (anytime during pathway)	Intermediate Choir	Intermediate Choir or Vocal Jazz	Advanced Choir

PIANO AND ELECTRONIC KEYBOARD 4204- Piano and Electronic Keyboard is based on the Indiana Academic Standards for High School music Technology and Instrumental Music. Students taking this course are offered keyboard classes in order to develop music proficiency and musicianship. Students perform with proper posture, hand position, fingering rhythm, and articulation, compose and improvise melodic and harmonic material; create and perform simple accompaniments; listen to, analyze, sight-read, and study a variety of keyboard literature; study the elements of music as exemplified in a variety of styles, and make interpretive decisions.

OPEN TO:	Grades: 9 - 12
PREREQUISITES:	1 semester of band or choir recommended but not required.
ONE SEMESTER COURSE	

APPLIED MUSIC VOICE 4200: This course will allow students to work more closely with the choral director in order to improve their vocal techniques and performances within the choral department. Applied Music in Voice is a course offered to all ICHS students grade 9-12 where students are introduced to solo singing with the goal being to learn to sing with proper posture and vocal technique while applying appropriate styles and accurate technicality. Students will learn to read music via sight-reading and applied theory. Students will connect with and perform a variety of music ranging from classical, jazz, folk, and contemporary pieces. Students will also evaluate and assess musical performances. Upon completion of the course, students will be able to connect, respond, perform, and create vocal music. No previous choral or vocal experience required.

OPEN TO:	Grades: 9 - 12
PREREQUISITES:	1 semester of band or choir recommended but not required.
ONE SEMESTER COURSE	

APPLIED MUSIC GUITAR 4200: This course will allow students to explore string instruments and broaden their knowledge of musical instruments. Students must provide their own instrument for this course. Applied Music in Guitar is a course offered to all ICHS students grade 9-12 where students are introduced to the guitar with the goal to learn to operate and play the instrument with proper posture and technique. Students will learn to read music via sight-reading and applied theory. Students will connect with and perform a variety of music ranging from classical, jazz, folk, and contemporary pieces. Students will learn to evaluate and listen to music to assess musical qualities of performance techniques. Students will learn traditional Western music theory as well as how to read chord progressions on a lead sheet. Upon completion of the course, students will be able to read guitar music and be able to learn to play a piece on their own without guidance. No previous guitar experience is required, but students must have their own access to an instrument.

OPEN TO:	Grades: 9 - 12
PREREQUISITES:	1 semester of band or choir recommended but not required.
ONE SEMESTER COURSE	

INTERMEDIATE CONCERT BAND 4168: Intermediate Concert Band is based on the Indiana Academic Standards for High School Instrumental Music. This course includes a balanced comprehensive study of music that develops skills in the psychomotor, cognitive, and affective domains. Ensemble and solo activities are designed to develop elements of musicianship including tone production, technical skills, intonation, music reading skills, listening skills, analyzing music, studying historically significant styles of literature, and integration of other applicable disciplines. Students study a varied repertoire of developmentally appropriate concert band literature and develop the ability to understand and convey the composer's intent in performance of music. Time outside of the school day may be scheduled for 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.

Costs include upkeep and supplies for instruments (reeds, oils, etc.) and an instrument rental fee if you are a percussionist or are using an instrument provided by NHJ.

OPEN TO:	Grades: 9 - 12
PREREQUISITES:	
FULL YEAR COURSE	
NOTES:	This course may be repeated for credit.

ADVANCED CONCERT BAND (SYMPHONIC) 4170: Advanced Concert Band is based on the Indiana Academic Standards for High School Instrumental Music. This course provides students with a balanced comprehensive study of music through the concert band, which develops skills in the psychomotor, cognitive, and affective domains. Ensemble and solo activities are designed to develop elements of musicianship including tone production, technical skills, intonation, music reading skills, listening skills, analyzing music, studying historically significant styles of literature, and integration of other applicable disciplines. Experiences include improvising, conducting, playing by ear, and sight-reading. Students develop the ability to understand and convey the composer's intent in performance of music. Time outside of the school day may be scheduled

for 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.

Costs include upkeep and supplies for instruments (reeds, oils, etc.) and an instrument rental fee if you are a percussionist or are using an instrument provided by NHJ.

OPEN TO:	Grades: 9 - 12
PREREQUISITES:	
FULL YEAR COURSE	
NOTES:	This course may be repeated for credit.

ELECTRONIC MUSIC 4202: Electronic Music is based on the Indiana Academic Standards for High School Music Technology. Students taking this course are provided with a wide variety of activities and experiences to develop skills in using electronic media and current technology to perform, create, and respond to music.

The course begins with an overview of the History of Electronic Music, and moves into Music Physics and Acoustics. From there, we'll explore recording, electronic composition, sound design, music business, and issues regarding copyright and music law.

OPEN TO:	Grades: 9 - 12
PREREQUISITES:	None
ONE SEMESTER COURSE	

MUSIC HISTORY & APPRECIATION 4206 (HUMA 118): This course can be taken for dual credit through Ivy Tech. It introduces the student to music with an emphasis on critical listening. Surveys a variety of genres, composers and their compositions. Students will evaluate music as an art form, an entertainment medium and as a vehicle for self-expression. The reciprocal relationship of music on and by culture will be investigated. It is strongly recommended that students attend a musical event to gain firsthand experience in music. No previous background in music is required.

OPEN TO:	Grades: 10 - 12
PREREQUISITES:	
SEMESTER COURSE	
NOTES:	Can be taken for dual credit through Ivy Tech contingent on GPA.

AP MUSIC THEORY 4210: AP Music Theory 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 Music Theory course corresponds to two semesters of a typical introductory college music theory course that covers topics such as musicianship, theory, musical materials, and procedures. Through the course, students develop the ability to recognize, understand, and describe basic materials and processes of music that are heard or presented in a score. Development of aural skills is a primary objective. Performance is also part of the learning process. Students understand basic concepts and terminology by listening to and performing a wide variety of music.

OPEN TO:	Grades: 11 - 12
PREREQUISITES:	
FULL YEAR COURSE	Weighted.

INTERMEDIATE CHORUS 4186: Intermediate Chorus is based on the Indiana Academics Standards for High School Choral Music. This is a unisex competing female show choir. Students taking this course develop musicianship and specific performance skills through ensemble and solo singing. Students will be expected to sight read rhythms, melodies and harmonic progressions by the end of the first semester. Their grade will be based on ability, participation, improvement, and individual willingness to make the choir one of excellence. This ensemble will be required to perform more frequently. Most of the repertoire will be in a variety of styles from Pop to Renaissance. There will be choreography therefore students should be able to demonstrate some rhythmic ability. Auditions will be announced. This group is open to the entire school and membership in the Chorus is not required. Since it is an “auditions only” group, students wishing to participate should demonstrate considerable music ability. The music literature in this group will be more difficult than other musical groups. Participation will be mandatory for extra rehearsals and chorus performances. Since this is a “performance class,” it may not be dropped unless the student has permission from the director.

OPEN TO:	Grades: 9 - 12
PREREQUISITES:	None
FULL YEAR COURSE	
NOTES:	This course may be repeated for credit.

ADVANCED CHORUS 4188: Advanced Chorus is based on the Indiana Academics Standards for High School Choral Music. This is an auditioned mixed show choir. Students taking this course develop musicianship and specific performance skills through ensemble and solo singing. Performance in this class centers on quality repertoire in diverse styles of choral literature appropriate in difficulty and range for the students. This Chorus class should provide instruction in creating, performing, and responding to music. Students develop the ability to understand and convey the composer’s intent in order to connect the performer with the audience. Students will be expected to sight read rhythms, melodies and harmonic progressions by the end of the first semester. Grades will be based on ability, participation, improvement, and individual willingness to make the choir one of excellence. This ensemble will be required to perform more frequently than Chorus. Most of the repertoire will be in a variety of styles from Pop to Renaissance. There will be choreography so students should be able to demonstrate some rhythmic ability. Auditions will be announced. This group is open to the entire school and membership in the Chorus is not required. Since it is an “auditions only” group, students wishing to participate should demonstrate considerable music ability. The music literature in this group will be more difficult than other musical groups. There will be extra mandatory rehearsals. Since this is a “performance class,” it may not be dropped unless the student has permission from the director.

OPEN TO:	Grades: 9 - 12
PREREQUISITES:	Passed audition
FULL YEAR COURSE	
NOTES:	This course may be repeated for credit.

VOCAL JAZZ 4184: Vocal Jazz is based on the Indiana Academic Standards for High School Choral Music. Students in this course develop musicianship and specific performance skills through group and individual settings for the study and performance of varied styles of vocal jazz. Instruction includes the study of the history and formative and stylistic elements of jazz. Students develop their creative skills through improvisation, composition, arranging, performing, listening, and analyzing. Time outside of the school day may be scheduled for 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.

OPEN TO:	Grades: 10 - 12
PREREQUISITES:	Passed Audition
FULL YEAR COURSE	

MUSICAL THEATER 0518: Musical Theater is based on the Indiana Academic Standards for Theater. Students in this course study the history of musical theater and its place in today's society and actively engage in the process of designing, building, managing, and implementing the technical aspects of a production. They participate in staging, choreographing, rehearsing, and performing an original or existing musical work. Students taking this course focus on a specific subject related to theater arts, such as: Shakespeare, Children's Theatre, Directing, Arts Management, and other specialized areas of study. These activities should incorporate elements of theater history, culture, analysis, response, creative process, and integrated studies. Additionally, students explore career opportunities in the theater, attend and critique theatrical productions, and recognize the responsibilities and importance of individual theater patrons in their community. Students are expected to participate in after school activities for the high school musical production including every performance.

OPEN TO:	Grades: 9 - 12
PREREQUISITES:	None
ONE SEMESTER COURSE	

APPLIED MUSIC PERCUSSION PERFORMANCE 4200: Percussion Performance is a classroom music experience that is helpful to students who are both new to percussion, and IC band students who want to learn more about percussion. Students will pursue the study of musical concepts within the parameters of a performance ensemble. We will gain a basic understanding of pitched percussion playing on Xylophone, Marimba, Orchestra Bells, Chimes, and Vibraphone. Unpitched instruments including different types of Drums, Cymbals, and Percussion Accessory instruments. Students will learn to play together and by themselves. We will also learn basic concepts of music theory, including Rhythm, Treble Clef, and Bass Clef. Students are expected to work to improve their musicianship, and to contribute to the musical experience for themselves and their classmates.

OPEN TO:	Grades: 9 - 12
PREREQUISITES:	None
ONE SEMESTER COURSE	A Core 40, THD, and AHD course.

Science Department

BIOLOGY I 3024: Through regular laboratory and field investigations, this course will provide a study of the structures and functions of living organisms and their interactions with their environment. It will also study 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 will have the opportunities 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 social issues. The course will include principles and applications of microbiology, human physiology, population genetics and ecology. Students will use technology to explore and present scientific information. They will also demonstrate an understanding of the impact of technology on the methods of biological research.

OPEN TO:	Grades: 9
PREREQUISITES:	None
FULL YEAR COURSE	

BIOLOGY I HONORS 3024: Biology I Honors covers the same standards as Biology I, but will be a class that will allow students to work above and beyond the standards at a more accelerated pace. Students will study the energy and matter relationships required to maintain the organization of homeostasis. These processes allow life to occur and require the production, modification, transport, and exchange of materials. Students will study the levels of organization from subcellular structures to whole organisms. Emphasis will be placed upon the concept that the actions of genes, patterns of inheritance, and reproduction of cells accounts for the continuity of life. Students will understand that biological diversity arises through natural selection and the interaction of genes and the environment. This course will include principles and applications of microbiology, human physiology, population genetics, and ecology. Students will use technology to explore and present scientific information. Due to the rigor of this course, it is calculated as a weighted class.

OPEN TO:	Grades: 9
PREREQUISITES:	2.7 GPA or higher.
FULL YEAR COURSE	Weighted

APPLIED BIOLOGY I 3025A: This course is a course based on the following core topics: cellular chemistry, structure and reproduction; matter cycles and energy transfer; interdependence of organisms; molecular basis of heredity; genetics and evolution. 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.

OPEN TO:	Grades: 9 - 12
APPLIED UNITS:	4 units maximum.
FULL YEAR COURSE	Counts as a science requirement for the Alternate Diploma

CHEMISTRY I 3064: This is a laboratory course, which emphasizes investigative and problem-solving skills to prepare students for college. Students will take measurements and record scientific data requiring extensive use of the metric system, significant digits, and scientific notation. Topics covered include classification of matter, atomic theory, ionic and covalent bonding, kinetic theory, stoichiometric relationships, electron configuration, gas laws, radioactivity, solutions, and acid-base theory. Students will become familiar with the periodic table of elements, learn to write formulas, and understand the fundamental concepts of basic chemical reactions. Lab work includes building molecular models, observing basic chemical reactions, comparing the behavior of solids, liquids, and gasses, conducting flame tests, mixing solutions, and testing acids, bases and salts. This course will allow students to synthesize useful models of the structure of matter and the mechanisms of its interactions through laboratory investigations of matter and chemical reactions. Students will have opportunities 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 social issues, and (4) learn and practice laboratory safety. There is a lab fee of \$4.00 per semester associated with this course.

OPEN TO:	Grades: 10
PREREQUISITES:	
FULL YEAR COURSE	

CHEMISTRY I HONORS 3064: The same as Chemistry I (see above) with an added concentration on College Board Standards in preparation for Chemistry II and AP Chemistry. Students should be strong in reading, writing, and math. There is a lab fee of \$ 4.00 per semester associated with this course.

OPEN TO:	Grades: 10
PREREQUISITES:	2.7 GPA or higher.
FULL YEAR COURSE	Weighted

INTEGRATED CHEMISTRY/PHYSICS 3108: ICP is a project and lab-based course that focuses on how stuff works and what it is made up of. The class topics include chemical interactions, electricity and magnetism, matter and types of energy, waves, and finally the different types of forces and why objects move. Students taking this class will participate in multiple experiments and computer activities, projects, discussions, demonstrations, lectures and presentations, and also videos in order to gain a thorough understanding of the concepts covered. This class fulfills the science requirements for all diplomas including the Academic Honors and Technical Honors diplomas.

OPEN TO:	Grades: 10
PREREQUISITES:	
FULL YEAR COURSE	

APPLIED PHYSICAL SCIENCE 3102A: Applied Physical Science is a course in which students develop problem solving skills and strategies while performing laboratory and field investigations of fundamental chemical, physical, and related earth and space science concepts and principles that are related to students' interests and that address everyday problems.

OPEN TO:	Grades: 9 - 12
APPLIED UNITS:	2 units maximum.
FULL YEAR COURSE	Counts as a science requirement for the Alternate Diploma

ADVANCED LIFE SCIENCE, ZOOLOGY (3092): Formerly known as regular Biology II. The course gives an introduction to zoology, the study of animal life, with particular emphasis on the anatomy and physiology of both vertebrates and invertebrates. Students will survey the major phyla of the Animal Kingdom. Zoologists research a variety of aspects about animals, including their physical appearance and interrelationships, their physiology and genetics, and their distributions and habitats. As humans, we are intricately tied to animal life – we have always shown a dependency on a variety of animals for food, work, and of course through domestication of household pets throughout our evolution and history....not to mention that we ARE animals! The class will include dissections and a variety of lab activities to give students first hand experience with the animals studied. Students electing to take this course should be self-disciplined and have successfully completed Biology I and Chemistry I / ICP.

OPEN TO:	Grades: 10 - 12
PREREQUISITES:	Sophomores must request permission from the instructor.
FULL YEAR COURSE	

BIOLOGY II 3026 (BIOL L100 ACP): This is a dual credit course through Indiana University Advanced College Project program. Focus will be on the principles of biological organization, from molecules through cells and organisms to populations. Emphasis on processes common to all organisms, with special reference to humans. Students will receive instruction and preparation for the AP Biology exam. The AP biology exam is optional.

OPEN TO:	Grades: 10 - 12
PREREQUISITES:	2.70 GPA. Sophomores must request permission from the instructor.
FULL YEAR COURSE	Indiana College Core. Weighted

ANATOMY & PHYSIOLOGY 5276: This is an advanced biology course that will present studies in Anatomy and Physiology, with the emphasis on the human body. A great amount of the time will be spent studying the various body systems, body organs, structures, and how they function. Students will apply valuable knowledge of these major body systems using several labs, technology, and major dissections. Retention of numerous vocabulary terms associated with these body systems and their functions is a key component of this course.

OPEN TO:	Grades: 10 - 12
PREREQUISITES:	C- of higher in both Biology I and Chemistry I
FULL YEAR COURSE	

ENVIRONMENTAL SCIENCE 3010: Environmental Science is an interdisciplinary course that integrates biology, earth science, chemistry, and other disciplines. Students enrolled in this course conduct in-depth scientific studies of environmental systems, flow of matter and energy, natural disasters, environmental policies, biodiversity, population, pollution, and natural and anthropogenic resource cycles. Students formulate, design, and carry out laboratory and field investigations as an essential course component. Students completing Environmental Science, acquire the essential tools for understanding the complexities of national and global environmental systems.

OPEN TO:	Grades: 11- 12
PREREQUISITES:	None
FULL YEAR COURSE	

APPLIED LIFE SCIENCE 3030A: 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.

OPEN TO:	Grades: 9 - 12
APPLIED UNITS:	2 units maximum.
FULL YEAR COURSE	Counts as a science requirement for the Alternate Diploma

CHEMISTRY II 3066 (C101/121 ACP): This course includes an in-depth review of many of the topics studied in Chemistry I. Additional topics include thermochemistry, reaction spontaneity, precipitation reactions, redox reactions, spectrophotometry, colligative properties of solutions, gas and acid-base equilibrium, electrochemistry, and organic chemistry. Extended laboratories, and literature investigations involve simple distillation, observing chemical changes in copper, redox titration of bleach, determining the specific heat capacity of antifreeze, mixing and testing solutions, observing color change in equilibrium systems, testing voltaic cells, and making soap. This course stresses the unifying themes of chemistry, the development of physical and mathematical models of matter and its interactions, and the methods of scientific inquiry. This course is recommended for students planning a career in science or a science related field. There is a lab fee of \$ 4.00 per semester associated with this course. This course can be taken for dual credit through Ivy Tech.

OPEN TO:	Grades: 11 - 12
PREREQUISITES:	2.70 GPA of higher, Chemistry I with a C average or permission of the instructor
FULL YEAR COURSE	Indiana College Core. Weighted

PHYSICS I 3084: This is a lab course designed to acquaint students with the concepts and principles concerning matter and energy and basic laws of physics through scientific investigation and a high degree of mathematical analysis. Topics covered include the basic laws of motion and thermodynamics, mechanics, universal gravitation, work-energy-heat relationships, kinetic theory, wave motion, light, sound, atomic and nuclear physics, electricity, magnetism, and electromagnetism. Lab work includes analysis of both straight line and curvilinear motion, utilization of calorimeters for heat measurements, work with mirrors, lenses, electric circuits, and electromagnets. Students have opportunities to: (1) acquire an awareness of the history of physics

and its role in the birth of technology, (2) explore the uses of its models, theories, and laws in various careers, and (3) investigate physics questions and problems related to personal needs and social issues. This course is recommended for students planning a career in science or a related field. There is a lab fee of \$ 4.00 per semester associated with this course.

OPEN TO:	Grades: 11 - 12
PREREQUISITES:	
FULL YEAR COURSE	

NHJ EMPOWER- MARINE BIOLOGY (ADVANCED SCIENCE, 3092): Whether an organism is lurking in the deep shadows of the ocean, or socializing in a school of fish, how do the fields of anatomy, physiology, and behavioral ecology unite the diversity of a marine ecosystem? In this course, Marine Biology, you will study how ocean life exists in the midst of salinity, pressure, and water circulation. To begin this journey, you will first explore how marine environments are arranged. Then, several fields will be examined, such as: food chains, anatomy and physiology of organisms, behavioral ecology, and current topics in the field. Marine Biology is only offered as an online course and students will meet with the teacher to take a final exam at the conclusion of each semester.

OPEN TO:	Grades: 11 - 12
PREREQUISITES:	C- or higher in Biology I and Chemistry I, Application
FULL YEAR COURSE	

KINESIOLOGY (ADVANCED SCIENCE, 3092): Kinesiology is an advanced biology course. The class will be taught on a college prep level, and require some independent study. In this course students will learn about the nature and function of human movement in sport, dance, physical recreation, and adapted movement activities. Students will be analyzing daily living activities, work tasks, injury rehabilitation protocols, and movement analysis of other animals. Students will be introduced to new biomechanical terminology to extend their depth of knowledge learned in Anatomy and Physiology as well as in Physics. Labs will be conducted throughout the course, some of which may require physical activity.

OPEN TO:	Grades: 11 - 12
PREREQUISITES:	Biology/Honors Biology & Anatomy with a C or higher.
FULL YEAR COURSE	

Social Studies Department

GEOGRAPHY AND HISTORY OF THE WORLD 1570: Students will begin the course by reviewing basic geographical concepts from middle school including the five themes of geography and basic vocabulary that students will need to continue on to the regions of the world. Next, students will explore the history and geography of the world based on region beginning with the United States and Canada, then moving on to Latin America, then Europe, then Russia, then North Africa and The Middle East, Southwest and Central Asia, then Africa south of the Sahara Desert, then Asia and finally finishing up our tour of the world with Australia, Oceania and Antarctica. Students will engage in discussion, critical thinking, projects, as well as discussion of current events and why Geography and History matters. Students will engage in meaningful map activities and are encouraged to read and write often.

OPEN TO:	Grades: 9 - 10
PREREQUISITES:	None
FULL YEAR COURSE	

APPLIED GEOGRAPHY AND HISTORY OF THE WORLD 1570A: This course is designed to enable students to use geographical tools, skills and historical concepts to apply their understanding of major global themes including the origin and spread of world religions; exploration; conquest, and imperialism; urbanization; and innovations and revolutions. Geographical and historical skills include forming research questions, acquiring information by investigating a variety of sources, organizing information by creating graphic representations, analyzing information to understand, determine and explain patterns and trends, planning for the future, and documenting and presenting findings orally or in writing. Students use the knowledge, tools, and skills obtained from this course in order to understand, analyze, evaluate, and make predictions about major global developments. This course is designed to nurture perceptive and responsible citizenship, to encourage and support the development of critical thinking skills and lifelong learning, and to help prepare Indiana students for the 21st Century.

OPEN TO:	Grades: 9 - 12
APPLIED UNITS:	4 units maximum
FULL YEAR COURSE	Counts as a social studies requirement or elective for the Alternate Diploma

WORLD HISTORY AND CIVILIZATION 1548: An historical topical survey course addressing the development of human civilization from ancient times to the modern-day. Students are exposed to the social, political, economic, geographic, and technological developments that have produced modern society. Additionally, students analyze primary-source documents and utilize technology to perform historical research and interpretation. This is a reading and writing intensive course.

OPEN TO:	Grades: 9 - 10
PREREQUISITES:	None
FULL YEAR COURSE	

UNITED STATES HISTORY 1542: U.S. History is a two semester course, which builds upon the student's knowledge of American history. The course emphasizes the key events and people in our nation's development in the late nineteenth century, the twentieth century, and the early twenty-first century. Students examine the relationship of major themes and concepts in U.S. history. The students are expected to develop the skills of historical thinking and inquiry. Students will use their skills as citizens in democratic society by engaging in problem solving and debate. This is a required course for graduation.

OPEN TO:	Grades: 11
PREREQUISITES:	None
FULL YEAR COURSE	

UNITED STATES HISTORY HONORS 1542 (H105 & H106 ACP): H105 focuses on the Colonial period, Revolution, Confederation and Constitution, national period to 1865. Evolution of American society: political, economic, social structure; racial and ethnic groups; sex roles; Indian, inter-American, and world diplomacy of the United States; evolution of ideology, war, territorial expansion, industrialization, urbanization, international events and their impact on American history.

H106 focuses on 1865 to present. Evolution of American society: political, economic, social structure; racial and ethnic groups; sex roles; Indian, inter-American, and world diplomacy of the United States; evolution of ideology, war, territorial expansion, industrialization, urbanization, international events and their impact on American history. 1865 to present. Evolution of American society: political, economic, social structure; racial and ethnic groups; sex roles; Indian, inter-American, and world diplomacy of the United States; evolution of ideology, war, territorial expansion, industrialization, urbanization, international events and their impact on American history.

OPEN TO:	Grades: 11
PREREQUISITES:	World History, 2.70 GPA
FULL YEAR COURSE	Indiana College Core. Weighted

APPLIED UNITED STATES HISTORY 1542A: This course is a course that builds upon concepts 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 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 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 specific topics or the cause for changes in the nation over time.

OPEN TO:	Grades: 9 - 12
APPLIED UNITS:	4 units maximum
FULL YEAR COURSE	Counts as a social studies requirement or elective for the Alternate Diploma.

UNITED STATES GOVERNMENT 1540 (POLS Y103 ACP): This is a dual credit course through Indiana University. This course is an introduction to the nature of government and the dynamics of American politics. Origin and nature of the American federal system and its political party base.

OPEN TO:	Grades: 12
PREREQUISITES:	2.70 GPA
ONE SEMESTER COURSE	Indiana College Core. Weighted

UNITED STATES GOVERNMENT 1540: The 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 the rights and provides the structure and functions of various levels of government. How the United States interacts with other nations and the government's role in world affairs will be included. 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. Students will be able to explain the process of how a bill becomes a law, they will partake in a unit that will help them identify where they align politically depending on the issue, and will be able to use informed argument to defend their position.

CIVILITY IN DISCUSSIONS WITH NO PERSONAL JUDGMENT ON OTHER STUDENTS WILL BE STRESSED.

This class will also use current events and look closely at specific issues that contribute to the function and dysfunction of the democratic process.

OPEN TO:	Grades: 12
PREREQUISITES:	None
ONE SEMESTER COURSE	

APPLIED GOVERNMENT 1540A: Applied 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; 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. How the United States interacts with other nations and the government's role in world affairs will be included. Using primary and secondary resources, students will articulate, evaluate, and defend positions on political issues. As a result, they will recognize their own impact, 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.

OPEN TO:	Grades: 9 - 12
APPLIED UNITS:	2 units maximum
FULL YEAR COURSE	Counts as a social studies requirement or elective for the Alternate Diploma.

ANTHROPOLOGY 1502: Anthropology gives students perspectives concerning patterns of culture among people. The course introduces the anthropologist's processes of observing and analyzing human behavior. Topics studied include (1) theories and principles of cultural formation, growth, function, and change; (2) the relationship of culture to environment; and (3) the relationship between cultural background and behavior.

OPEN TO:	Grades: 9 - 12
PREREQUISITES:	None
ONE SEMESTER COURSE	

CURRENT PROBLEMS, ISSUES, AND EVENTS 1512: This course gives students the opportunity to apply investigative and inquiry techniques to the study of significant problems or issues. Students develop competence in (1) recognizing cause and effect relationships, (2) recognizing fallacies in reasoning and propaganda devices, (3) synthesizing knowledge into useful patterns, (4) stating and testing hypotheses, and (5) generalizing based on evidence. Problems or issues selected will have contemporary historical significance and will be studied from the viewpoint of the social science disciplines. Community service programs and internships within the community may be included.

OPEN TO:	Grades: 9 - 12
PREREQUISITES:	None
ONE SEMESTER COURSE	

APPLIED CURRENT PROBLEMS, ISSUES, AND EVENTS 1512A: Applied Current Problems, Issues, and Events gives students the opportunity to apply investigative and inquiry techniques to the study of significant problems or issues. Students develop competence in (1) recognizing cause and effect relationships, (2) recognizing fallacies in reasoning and propaganda devices, (3) synthesizing knowledge into useful patterns, (4) stating and testing hypotheses, and (5) generalizing based on evidence. Problems or issues selected will have contemporary historical significance and will be studied from the viewpoint of the social science disciplines. C

OPEN TO:	Grades: 9-12
APPLIED UNITS:	2 units maximum
FULL YEAR COURSE	Counts as a social studies requirement of elective for the Alternate Diploma.

ETHNIC STUDIES 1516: This course 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.

OPEN TO:	Grades: 10 - 12
PREREQUISITES:	None
ONE SEMESTER COURSE	

INDIANA STUDIES 1518: This 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.

OPEN TO:	Grades: 10 - 12
PREREQUISITES:	None
ONE SEMESTER COURSE	

APPLIED INDIANA STUDIES 1518A: This course 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.

OPEN TO:	Grades: 10 - 12
APPLIED UNITS:	2 units maximum
ONE SEMESTER COURSE	Counts as a social studies requirement or elective for the Alternate Diploma. .

PSYCHOLOGY 1532: This is an introductory survey course that provides a foundation for future college studies in psychology, as well as related fields. This course is designed to develop an understanding of the processes in learning, motivation, and achievement theory. Issues involving interpersonal relationships, such as decision-making, conflict resolution, and compromise will be addressed to help students understand themselves and others and to develop life-long skills. Students will be asked to evaluate theories within the context of practical life situations and applications. Students will be assessed using a variety of criteria, including authentic learning activities in which they apply newly acquired knowledge in meaningful ways. Lastly, the course organization encompasses seven units: approaches to psychology, the life span, the workings of the mind and body, learning and cognitive processes, personality and individuality, adjustment and breakdown, and social psychology.

OPEN TO:	Grades: 10 - 12
PREREQUISITES:	None
ONE SEMESTER COURSE	

NHJ EMPOWER SOCIOLOGY 1534: This is an online only course. This course provides an opportunity for students to study human social behavior and interaction from a group perspective. The sociological perspective is a distinct method of studying recurring patterns in people's attitudes and actions and how these patterns vary across time, among cultures, and in social groups. Students will describe the development of sociology as a social science and identify methods and strategies of research. Students examine society, group behavior, and social structures through research methods using scientific inquiry. The influence of culture on group behavior is addressed through areas of content including social institutions such as the family, religion, education, economics, government, community organizations, and political and social groups.

Students will also explore the impacts of social groups and social institutions on individual and group behavior and examine the changing nature of society.

OPEN TO:	Grades: 11-- 12
PREREQUISITES:	Application
ONE SEMESTER COURSE	

TOPICS IN HISTORY (The Cold War Era Into the 21st Century) 1538: Topics in History provides students the opportunity to study specific historical eras, events, or concepts. Development of historical research skills using primary and secondary sources is emphasized. The course focuses on one or more topics or themes related to United States or world history. Examples of topics might include: (1) twentieth- century conflict, (2) the American West, (3) the history of the United States Constitution, and (4) democracy in history.

This specific topic includes exploring the cultural, political, and social changes that shaped the United States after World War II and into the 21st century. We will analyze post–WWII politics and their growing influence on society, the rise of technology with a focus on the invention of the television, and the multitude of changes brought on by the era of protests. Students will be able to see the beginnings of their modern world take shape and wrestle with the lasting impacts of these developments on today’s society, culture, and political landscape.

OPEN TO:	Grades: 10 - 12
PREREQUISITES:	None
ONE SEMESTER COURSE	

Multidisciplinary

BASIC SKILLS DEVELOPMENT 0500: 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.

OPEN TO:	Grades: 9-12
PREREQUISITES:	None
FULL YEAR COURSE	

APPLIED BASIC SKILLS DEVELOPMENT 0500A: Applied 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, (9) employability skills, which are essential for high school achievement and post-secondary outcomes. Determination of the skills to be emphasized in this course is based on Indiana’s standards and Content Connectors, 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 and may be applied using instructional practices related to community-based instruction.

OPEN TO:	Grades: 10 - 12
APPLIED UNITS:	8 units maximum
FULL YEAR COURSE	Counts as an employability requirement or elective for the Alternate Diploma.

APPLIED COMMUNITY SERVICE 0524A: Applied Community Service is a course created by public law IC 20-30-14. Community service allows students in grades nine through twelve (HEA 1629) the opportunity to earn up to two high school credits for completion of approved community service projects or volunteer service that “relates to a course in which the student is enrolled or intends to enroll.” This course will count towards the alternate diploma in the employability section for diploma requirement.

OPEN TO:	Grades 11, 12
APPLIED UNITS	2 maximum
FULL YEAR COURSE	Alternate Diploma

Theater Arts

THEATER ARTS 4242: Theater Arts is based on the Indiana Academic Standards for Theater. Students enrolled in Theater Arts read and analyze plays, create scripts and theater pieces, conceive scenic designs, and develop acting skills. These activities incorporate elements of theater history, culture, analysis, response, creative process, and integrated studies. Additionally, students explore career opportunities in the theater, attend and critique theatrical productions, and recognize the responsibilities and the importance of individual theater patrons in their community.

OPEN TO:	Grades: 9-12
PREREQUISITES:	None
FULL YEAR COURSE	

TECHNICAL THEATER 4244: Technical Theater is based on the Indiana Academic Standards for Theater. Students enrolled in Technical Theater actively engage in the process of designing, building, managing, and implementing the technical aspects of a production. These activities should incorporate elements of theater history, culture, analysis, response, creative process, and integrated studies. Additionally, students explore career opportunities in the theater, attend and critique theatrical productions, and recognize the responsibilities and the importance of individual theater patrons in their community.

OPEN TO:	Grades: 9-12
PREREQUISITES:	None
FULL YEAR COURSE	

THEATER PRODUCTION 4248: Students enrolled in Theater Production will learn about the aspects of putting on a production including directing, blocking, acting, props, and costumes. The class will learn how to analyze a play and gather the true meaning of a production through annotation, analysis, and reflection. The class will focus primarily on the phases of putting on a production including auditions, read-throughs, blocking, rehearsal time, marketing, and performances. Students will work together to create original scenes, stories and short plays that will be given life on the stage. Students will also be tasked with helping current productions during class time. At the end of the semester, students will be assigned roles within the class such as director, actor, and stage manager and will be tasked with taking what they learned to put on a short play for other classes and the community. The goal of this performance will be to help strengthen the ties within the community and provide student-led opportunities within our theater space.

OPEN TO:	Grades: 9-12
PREREQUISITES:	None
FULL YEAR COURSE	

World Languages Department

SPANISH I 2120: 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.

OPEN TO:	Grades: 9 - 12
PREREQUISITES:	None.
FULL YEAR COURSE	

SPANISH II 2122: 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.

OPEN TO:	Grades: 10 - 12
PREREQUISITES:	Spanish I with a C or higher
FULL YEAR COURSE	

SPANISH III 2124: This course is 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 an 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.

OPEN TO:	Grades: 11 - 12
PREREQUISITES:	Spanish I & Spanish II with a C or higher
FULL YEAR COURSE	Weighted.

SPANISH IV 2126: Spanish IV, a course based on Indiana's Academic Standards for World Languages, provides a context for integration of the continued development of language skills and cultural understanding with other content areas and the community beyond the classroom. The skill sets that apply to the exchange of written and oral information are expanded through emphasis on practicing speaking and listening strategies that facilitate communication, such as the use of circumlocution, guessing meaning in familiar and unfamiliar contexts, and using elements of word formation to expand vocabulary and derive meaning. Additionally, students will continue to develop an understanding of Spanish-speaking culture through explaining factors that influence the practices, products, and perspectives of the target culture; reflecting on cultural practices of the target culture; and comparing systems of the target culture and the student's own culture. This course further emphasizes making connections across content areas through the design of activities and materials that integrate the target language and culture with concepts and skills from other content areas. The use and influence of the Spanish language and culture in the community beyond the classroom is explored through the identification and evaluation of resources intended for native Spanish speakers.

OPEN TO:	Grades: 11 - 12
PREREQUISITES:	Spanish I, Spanish II, and Spanish III with a C or higher
FULL YEAR COURSE	Weighted.

Central Nine Career Center

Central Nine programs are designed to provide students with necessary skills and knowledge to prepare them for employment in many different occupational areas, post-secondary education, or both. Central Nine educates its students with the attitudes and competencies for employment in the 21st century and beyond.

Juniors and seniors have the opportunity to enroll at Central Nine. Students are selected on the basis of sincere interest, necessary aptitudes, attendance, and past performance. Enrollees receive up to four (4) credits per semester for successful completion of the course requirements.

Students spend approximately half of the school day at Central Nine. The remainder of the school day is spent at Indian Creek in order to schedule the required courses for graduation and participate in extra- curricular activities. **Central Nine assesses an annual fee, which covers equipment, tools, materials, books, etc.** Program fees and questions should be directed to Central Nine Career Center at 317-888-4401.

**** The C9 Course Catalog should be referred to for the most updated information.**

CONSTRUCTION & LANDSCAPING

CONSTRUCTION TRADES: This hands-on program includes both classroom and laboratory experiences. Specific skills include the formation, installation, and establishment of buildings, homes, and other structures. The attainment of these skills is put to the test as students work to construct a house! Our students develop the skills and knowledge to become work-ready in a variety of construction trades. Through these experiences they'll have opportunities to meet our local partners and community supporters while becoming OSHA certified.

Year 1 courses include: Principles of Construction Trades 7130, Construction Trades: General Carpentry 7123, and Construction Trades: Technical Skills Development 7156

Year 2 courses include: Construction Trades: Framing and Finishing 7122, and Construction Trades Capstone 7242

OPEN TO:	Grades: 11 - 12
PREREQUISITES:	None
FULL YEAR COURSE	

HVAC: HVAC Includes classroom and laboratory experiences focused on basic heating, ventilation, and cooling/refrigeration systems. This program introduces scientific and mathematical principles applicable to the installation, operation, & maintenance of HVAC systems. Additionally, students have the opportunity to earn an EPA certification.

Year 1 courses include: Principles of HVAC 7131, HVAC Fundamentals 7125, and HVAC Service 7126

Year 2 courses include: HVAC Service 7126, and HVAC Capstone 7244

OPEN TO:	Grades: 11 - 12
PREREQUISITES:	None
FULL YEAR COURSE	

LANDSCAPE MANAGEMENT: Students have the opportunity to complete landscape projects for homes and businesses while maintaining Central Nine's campus. Students also study aquaponics through the raising of tilapia and crawfish farming. This program covers irrigation, equipment maintenance, hydroponics, aquaponics, and greenhouse management. Students participate in FFA and have chapter opportunities for leadership.

Year 1 courses include: Principles of Agriculture 7117, Horticultural Science NLPS 5132, and Landscaping Technical Skills Development 7156

Year 2 courses include: Landscape and Turf Management 7115, and Landscape Management Capstone 7234

OPEN TO:	Grades: 11 - 12
PREREQUISITES:	None
FULL YEAR COURSE	

HEALTH SCIENCE

PRINCIPLES OF BIOMEDICAL SCIENCES: This rigorous and relevant curriculum uses activities, projects, and problems to expose students to biomedical science content and careers. From the moment students walk into the classroom, they are immersed in a crime scene investigation to study forensic science, human body systems, and medical interventions ranging from autopsies, drug analysis, EKG, Clay Manikins®, prosthetic designs, and more!

Year 1 courses include: Principles of Biomedical Sciences 5218, Human Body systems 5216, and Anatomy & Physiology NLPS 5276

Year 2 courses include: Medical Interventions 5217, Biomedical Innovations 5219, Technical Skills Development BioMedical 7156

OPEN TO:	Grades: 11 - 12
PREREQUISITES:	Biology I with a C or higher
FULL YEAR COURSE	
NOTES:	Principles of Biomedical Sciences is taught in conjunction with Human body Systems & Anatomy

DENTAL CAREERS: This program addresses dentistry from the perspective of a dentist, hygienist, assistant, and lab technician. Emphasis is placed on the clinical and lab environment, equipment/instrument identification, oral anatomy, and sterilization. Additionally, students work towards obtaining a National Entry Level Dental Assistant Certification, a Radiography License, and a Dental X-Ray License. Students can also earn CPR, AED/First Aid, Bloodborne Pathogens, and HIPPA Training certifications.

Year 1 courses include: Principles of Dental CAreers 7315, Dental Careers Fundamentals 7316, and Advanced Dental Careers 7317

Year 2 courses include: Dental Careers Capstone 7318

OPEN TO:	Grades: 11 - 12
PREREQUISITES:	None
FULL YEAR COURSE	

EXERCISE SCIENCE: Students in this program learn about the roles and responsibilities of various healthcare professionals in the field of sports medicine, including evaluation, treatment, prevention and rehabilitation, and multiple injuries. Students will spend the remaining time putting skills into practice through professional field experience at qualified clinical sites. Students can seek careers in physical therapy, athletic training, and sports medicine. Application process and interview required.

Year 1 courses include: Principles of Exercise Science 7320, Kinesiology 7321, Human Performance 7322, and Physical Therapy Capstone 7323

OPEN TO:	Grades: 11 - 12
PREREQUISITES:	Health Science I or comparable science core/electives
FULL YEAR COURSE	

MEDICAL ASSISTING: Students learn about the human body and its functions, along with many triage situations encountered as a medical assistant, such as working in a doctor's office, taking vitals (blood pressure, pulse, respiration, temperature, etc.), venipuncture, syringe fill, ECG's, urinalysis, prescription writing, and dosage calculations. Students may also earn CPR, HIPAA, FEMA, NHA CCMA, and Bloodborne Pathogen certifications.

Year 1 courses include: Principles of Healthcare 7168, Medical Terminology 5274, and Certified Clinical Medical Assistant (CCMA) 7164

OPEN TO:	Grades: 11 - 12
PREREQUISITES:	Strong in math, English, and science
FULL YEAR COURSE	

PRE-NURSING: Getting certified as a nursing assistant is a great way to begin moving up the nursing career ladder. This program offers courses that provide coherent and rigorous content aligned with challenging academic standards and relevant technical knowledge and skills needed to prepare for further education and careers in the health science career cluster. Students will perform various independent, hands-on tasks while caring for residents. Supervised clinical experiences at long-term care facilities help students gain first-hand knowledge about nursing assistant careers and other healthcare professions. This course will provide students with the classroom theory and lab skills to sit for the Indiana State Nurse Aide Certification exam. After taking the state exam, the second semester of the class meets weekly in coordination with students participating in work internships. Caring for patients/residents daily provides some of the most significant rewards any profession could offer. The capstone portion of this course will ensure that healthcare students acquire additional knowledge covering topics such as medical law and ethics and electronic health records.

Year 1 courses include Principles of Healthcare 7168, Medical Terminology 5274, Healthcare Specialist CNA 7166, and Healthcare Specialist Capstone 7255

OPEN TO:	Grades: 11 - 12
PREREQUISITES:	Application and interview with instructor
FULL YEAR COURSE	

VETERINARY SCIENCE: This advanced science, lab-intensive program introduces students to animal care and veterinary medicine while using the same skills they may be expected to perform in the veterinary field. Students increase their knowledge by working with animals, utilizing medical terminology, performing clinical skills, practicing animal nutrition, gaining clinical experience, and more. In their second year, students must complete a year-long internship to become certified veterinary assistants.

Year 1 courses include: Principles of Veterinary Science 7280, Veterinary Science 7281, and Advance Life Science Animals 5070

Year 2 courses include: Veterinary Science Capstone 7282, and Work Based Learning Capstone 5274

OPEN TO:	Grades: 11 - 12
PREREQUISITES:	None
FULL YEAR COURSE	

HUMAN SERVICES

COSMETOLOGY : This two-year program (junior through senior years) is contracted through Paul Mitchell The School and takes place on its campus. It offers an overview of cosmetology, emphasizing necessary practical skills, including roller control, quick styling, shampooing, hair coloring, and more. Students will also be able to earn their state cosmetology license.

Year 1 courses include: Principles of Barbering and Cosmetology 7330, Barbering and Cosmetology Fundamentals 7331, and Advanced Cosmetology 7332

Year 2 courses include: Barbering and Cosmetology Capstone 7334

OPEN TO:	Grades: 11 - 12
PREREQUISITES:	None
FULL YEAR COURSE	
NOTES:	This course meets at Paul Mitchell.

CULINARY ARTS AND HOSPITALITY : In this 2 year program students cover many topics while running the campus restaurant, To The Nines, and the Central Kitchen. Topics include how the food industry functions and what to expect as a prospective employee; safety and sanitation; cross-training in various professional positions in both front and back of the house; general kitchen workflow; food identification; nutrition; baking; food; customer service; etc.

Year 1 courses include: Principles of Culinary and Hospitality 7173, Nutrition 7171, and Culinary Arts 7169.

Year 2 courses include: Culinary Arts Capstone 7233, and Baking and Pastry Capstone 7235

OPEN TO:	Grades: 11 - 12
PREREQUISITES:	None
FULL YEAR COURSE	

EARLY CHILDHOOD EDUCATION: This program, available to juniors and seniors only, addresses the knowledge, skills, attitudes, and behaviors associated with supporting and promoting optimal growth and the development of infants and children. Students will learn the principles of childhood development, create a safe and healthy environment, guide children's behavior and development, and provide positive learning experiences.

Year 1 courses include: Principles of Early Childhood Education 7160, Early Childhood Education Curriculum 7158, and Technical Skills Development ECE 7156

Year 2 courses include: Early Childhood Education Guidance 7159, Early Childhood Education Capstone 7259

OPEN TO:	Grades: 11 - 12
PREREQUISITES:	None
FULL YEAR COURSE	

MEDIA & INFORMATION TECHNOLOGY

CYBERSECURITY: This program involves studying how people interact with computers to increase productivity and enhance communication. Students will learn to critically analyze approaches to processing information and develop skills to design, implement, and evaluate the next generation of information technology tools.

Year 1 courses include: Principles of Computing 7183, Cybersecurity Fundamentals 7179, and Advanced Cybersecurity 7178.

OPEN TO:	Grades: 11 - 12
PREREQUISITES:	2.0 GPA, C or higher in Algebra I and English 9.
FULL YEAR COURSE	

DIGITAL DESIGN: Students work with state-of-the-art equipment while utilizing Photoshop, InDesign, and Illustrator to complete projects for real-world clients in the community. Topics covered include covers page layout, digital photography, digital audio/video, graphics, printing/ publication, & product design.

Year 1 courses include: Principles of Digital Design 7140, Digital Design Graphics 7141, and Technical Skills Development VISCOM 7156

Year 2 courses include: Graphic Design & Layout NLPS 5550, and Digital Design Capstone 7246

OPEN TO:	Grades: 11 - 12
PREREQUISITES:	None
FULL YEAR COURSE	

INFORMATION TECHNOLOGY OPERATIONS: This program is available to juniors and seniors only. The field of network infrastructure and informatics dynamically infuses information science and technology into the lives of people at work and play. It involves studying how people interact with computers to increase productivity and enhance communication. Students will learn to critically analyze approaches to processing information and develop skills to design, implement, and evaluate the next generation of information technology tools. Students work with industry standard networking equipment and components such as routers and switches, cabling, connectivity, and mounting. Students work through the Cisco Networking Academy official CCNA preparation curriculum.

Year 1 courses include: Principles of Computing 7183, Information Technology Fundamentals 7180, and Networking and Cybersecurity Operations 7181

Year 2 courses include: IT Operations: IT Support Capstone 7245

OPEN TO:	Grades: 11 - 12
PREREQUISITES:	2.0 GPA, C or higher in Algebra I and English 9.
FULL YEAR COURSE	

MANUFACTURING

PRECISION MACHINING: In this program, students work with machines such as bench grinders, computer numerical control programming and operation, mills, lathes, drill presses, belt sanders, and more to create various projects. Second-year students can explore a paid internship opportunity and receive national certification (NIMS).

Year 1 courses include: Principles of Precision Machining 7109, Precision Machining Fundamentals 7105, and Technical Skills Development Precision Machining 7164

Year 2 courses include: Advanced Precision Machining 7107, and Precision Machining Capstone 7219

OPEN TO:	Grades: 11 - 12
PREREQUISITES:	Algebra I & geometry recommended
FULL YEAR COURSE	

INDUSTRY 4.0 SMART MANUFACTURING: Smart Manufacturing introduces students to the Industrial Internet of Things (IIoT), Programmable Logic Controllers (PLCs), and Mechatronics. Students will execute basic setup, adjustment, and operation of SMART technologies such as artificial intelligence, human-to-robot collaboration, safety, electrical systems, programmable automation, cloud technologies, robot operation, CAD, CNC, advanced manufacturing, blueprint reading, and technical mathematics. First-year students will work in teams to build a working prototype of an Industry 4.0 system, and second-year students will be encouraged to participate in a work-based learning experience.

Year 1 courses include: Principles of Industry 4.0 and Digital Manufacturing 7220

Year 2 courses include: Robotics, Design, and Innovation 4728

OPEN TO:	Grades: 11 - 12
PREREQUISITES:	Algebra I & geometry recommended
FULL YEAR COURSE	

WELDING TECHNOLOGY: Welding is utilized in many industries, including automotive, construction, manufacturing, shipbuilding, oil refineries, and transportation. Some of the processes students learn in this program are GMAW, GTAW, SMAW, Oxy-Acetylene cutting, and plasma hand CNC cutting.

Year 1 courses include: Principles of Welding Technology 7110, Shielded Metal Arc Welding 7111, and Technical Skills Development Welding 7156

Year 2 courses include: Gas Welding Processes 7101, and Welding Technology Capstone 7226

OPEN TO:	Grades: 11 - 12
PREREQUISITES:	None
FULL YEAR COURSE	

PROTECTIVE SERVICES

CRIMINAL JUSTICE: This hands-on, training-intensive program holds students to a high moral standard and encompasses physical training in the style of the Indiana Law Enforcement Academy (I.L.E.A.). It is designed to provide students with the fundamentals for a career in criminal justice through academy-based training and I.L.E.A. standards. This includes arrests, the use of force continuum, report writing, communications, terrorism/counterterrorism awareness, court operations, corrections, and probation procedures.

Year 1 courses include: Principles of Criminal Justice 7193, Law Enforcement Fundamentals 7191, and Technical Skills Development CJ 7156

Year 2 courses include: Corrections and Cultural Awareness 7188, Criminal Justice Capstone 7231

OPEN TO:	Grades: 11 - 12
PREREQUISITES:	None
FULL YEAR COURSE	

EMERGENCY MEDICAL SERVICES: This is a senior-only program where students prepare for a career in Emergency Medical Services. They will experience real-life situations that occur in hospital emergency rooms and ambulatory care. Students will have the opportunity to earn the NREMT certification at the end of the course upon passing the exam.

Year 1 courses include: Principles of Healthcare 7168, Medical Terminology 5274, and Emergency Medical Tech 7165

OPEN TO:	Grades: 12
PREREQUISITES:	None
FULL YEAR COURSE	

FIRE AND RESCUE: Students have the unique opportunity to obtain state fire certifications while working towards a high school diploma. They earn a total of four certificates, including Hazmat. The program is taught by various career firefighters from the local area who work with students to cover both physical training and fire academy requirements. This includes search and rescue procedures, victim removal, and fire suppression. Students will be issued firefighting gear, work on the campus fire engine, and acquire SCBA functionality skills. As part of the program, students will be expected to learn and execute all of the fire ground operations that are performed by firefighters daily.

Year 1 courses include: Principles of Fire Fighting 7195, Fire Fighting Fundamentals 7189, and Advanced Fire Fighting 7186

OPEN TO:	Grades: 11 -12
PREREQUISITES:	Must be 17 by April 1
FULL YEAR COURSE	

TRANSPORTATION

AUTO COLLISION REPAIR: Students learn various auto collision techniques such as painting, metal and plastic repair, MIG welding, plasma cutting, and cost estimation. Most importantly, students learn safety skills and the correct procedures for returning damaged cars to pre-accident conditions.

Year 1 courses include Principles of Collision Repair 7215, Automotive Body Repair 7204, and Plastic Body Repair and Painting Fundamentals 7206

Year 2 courses include Collision Repair Capstone 7380

OPEN TO:	Grades: 11 -12
PREREQUISITES:	None
FULL YEAR COURSE	

AUTOMOTIVE SERVICES : This program includes classroom and laboratory experiences that incorporate training in service and repair work on all types of automotive vehicles. Activities include oil changes, hand and power tool use, tires, brakes, engine performance, electrical systems and electronics, and so much more! Students who spend two years in the program will be taught all techniques of the modern vehicle and may earn up to 21 dual credits through Ivy Tech Community College. Students may earn a Maintenance and Light Repair Certificate from Ivy Tech after completing both courses. ASE Master Certified Instructors lead the program in a NATEF-certified program.

Year 1 courses include: Principles of Automotive Services 7213, Brake Systems 7205, and Technical Skills Development AST 7156

Year 2 courses include: Steering and Suspensions 7212, and Automotive Service Capstone 7375

OPEN TO:	Grades: 11 - 12
PREREQUISITES:	None
FULL YEAR COURSE	

AVIATION MAINTENANCE 5520: This program is in partnership with Vincennes University Aviation Technology. Classes are held at the Aviation Technology Center at the Indianapolis International Airport. The program will familiarize students with Federal Aviation Regulations and aircraft maintenance. Because of the nature of the program, there are strict rules and regulations that students must follow, including a rigid attendance requirement/policy:

OPEN TO:	Grades: 11 - 12
PREREQUISITES:	None
FULL YEAR COURSE	
NOTES:	This course meets at VU Aviation Center.

AVIATION MANAGEMENT: This course provides students with a broad-based introduction to the field of aviation. Course activities include: familiarization with aviation technology; a historic overview of the field of aviation; exploration of the current aviation environment and careers and employment opportunities in the field. Topics are focused on aircraft manufacturing, airline operations, general aviation, air-freight, airport management, and government service. Additional topics covered include: aviation safety, human factors, regulations, and certification. This course is designed to enhance the students' knowledge of the pertinent areas of aircraft basic science that comprise the scientific fundamentals applied in all areas of the aviation industry. Although not scientific in nature, the fundamental areas of the federal aviation regulations, pertinent to aviation operations, are also introduced in this course.

Flight topics will include basic aerodynamics, flight maneuvers, and aircraft power plants. Students will have the opportunity to be endorsed for the Private Pilot knowledge test.

Year 1 courses include: Principles of Aviation Management 7214, Private Pilot Theory 7217, Aviation Safety and Operation 7207, and Aviation Management Capstone 7385.

OPEN TO:	Grades: 11 - 12
PREREQUISITES:	None
FULL YEAR COURSE	

DIESEL SERVICE: This program prepares students for future work in a diesel service position. Students can participate in a paid internship during their second year, utilizing light welding, torch, mechanical, measuring, computer, and electrical skills daily. Students also prepare for entry-level certifications on the Cummins QuickServe Online program

Year 1 courses include: Principles of Diesel Services 7216, Diesel Transmission and Engine Repair 7211, and Technical Skills Development Diesel Services 7156

Year 2 courses include: Diesel Steering and Brakes 7210, and Diesel Services Capstone 7221

OPEN TO:	Grades: 11 - 12
PREREQUISITES:	None
FULL YEAR COURSE	

WORK BASED LEARNING

WORK BASED LEARNING: This program prepares students for college and careers by using internship experience. This strategy builds students' skills and knowledge in their chosen career path and furthers their study within their chosen area of interest. Students will also create a work portfolio that can be used in academia or industry. Students will also understand management, team building, leadership, problem-solving steps, and processes that contribute to achieving organizational goals. The management of human and financial resources is emphasized.

Year 1 courses include: Work Based Learning Capstone 5974

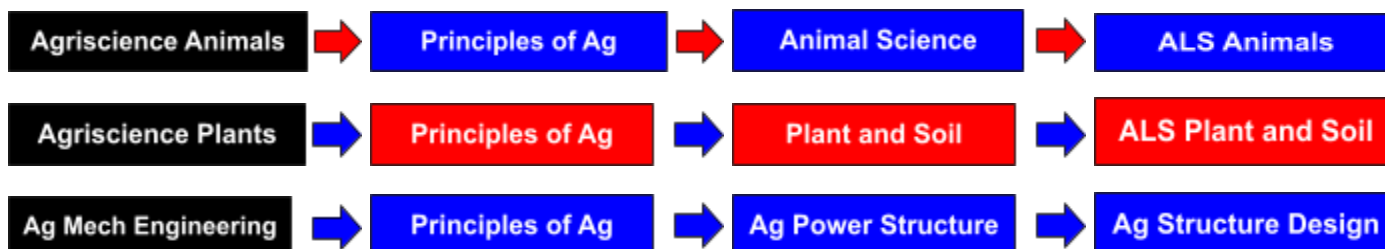
OPEN TO:	Grades: 12
PREREQUISITES:	95% attendance for junior year, 3 recommendation letters, no disciplinary actions, C or higher in pathway courses, clear defined pathway, application, and interview.
FULL YEAR COURSE	

Indian Creek High School Advanced Course Options

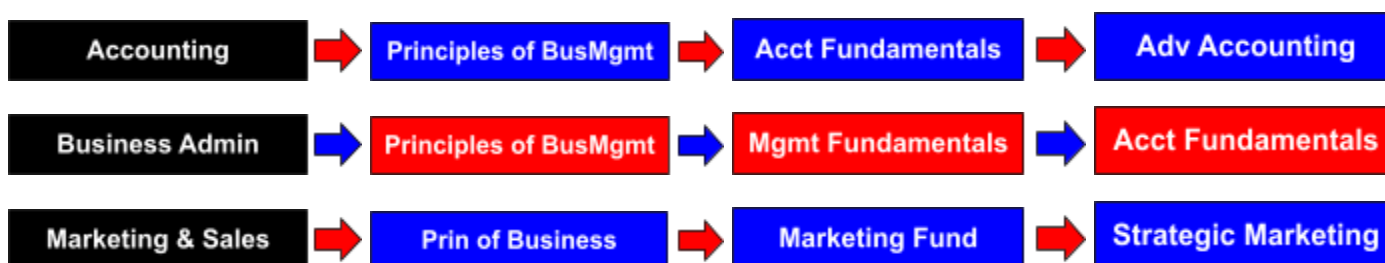
AP Courses	Honors Courses	Dual-Credit Courses
AP Chemistry	Algebra II Honors	Chemistry II (5 cr.) IU
AP Music Theory	Biology Honors	Biology II (5 cr.) IU
	Chemistry Honors	Finite (3 cr.) IU
	English 10 Honors	Pre Calculus/Trig Honors (6 cr.) IU
	English 9 Honors	Calculus (4 cr.) IU
	Geometry Honors	English 12 Dual Credit (6 cr.) IU
		Adv English CC (3 cr.) IU
		Adv Speech (3 cr.) IU
		US History (6 cr.) IU
		Government (3 cr.) IU
		Prin Bus X100 (3 cr.) IU
		Principles of Agriculture (3 cr.) Ivy Tech
		Animal Science(3 cr.) Ivy Tech
		ALS Animals(3 cr.) Ivy Tech
		Principles of Teaching (3 cr.) Ivy Tech
		Child & Adolescent Dev (3 cr.) Ivy Tech
		Teaching & Learning (3 cr.) Ivy Tech

Indian Creek High School CTE Course Sequence

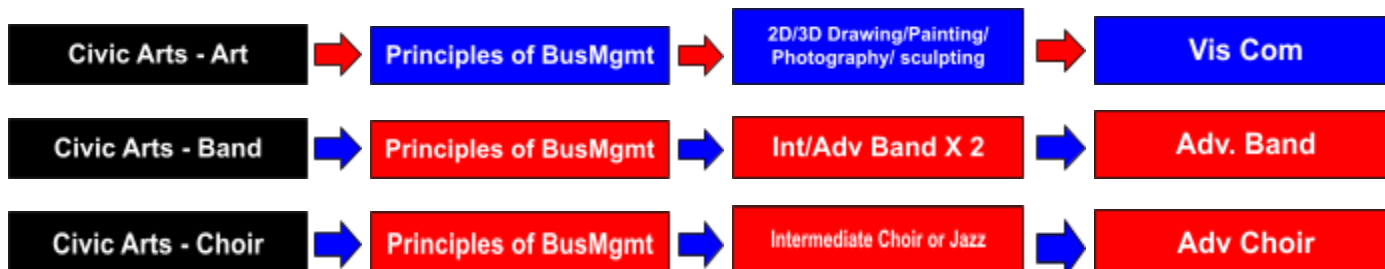
Agriculture



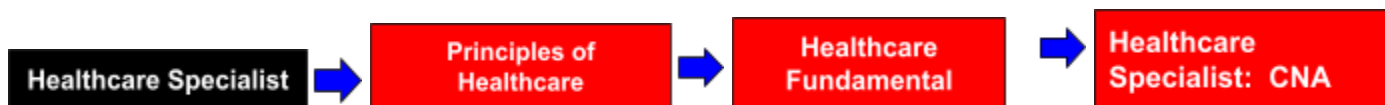
Business



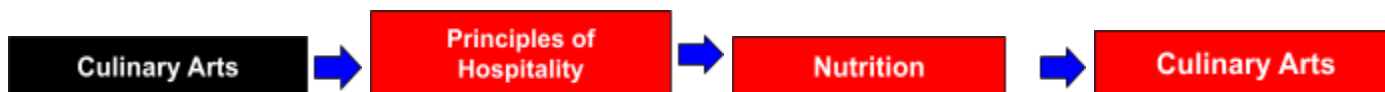
Civic Arts



Health Care Specialist (Pre-Nursing)



Hospitality



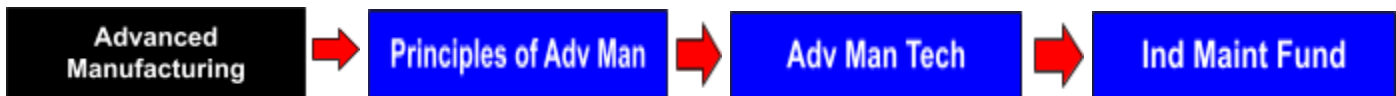


Braves Pathways

Indian Creek High School CTE Course Sequence



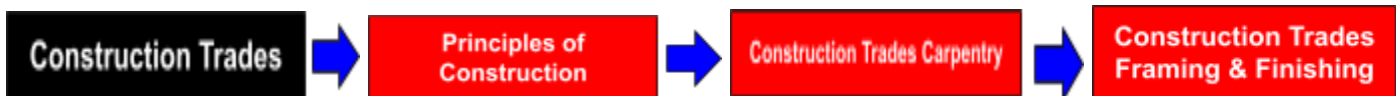
Advanced Manufacturing



Computer Science



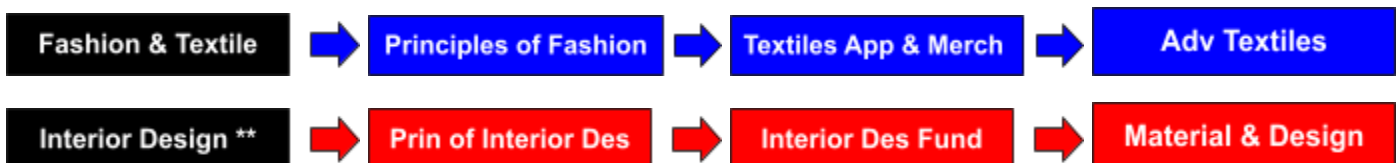
Construction



Education Careers



FACS



Braves Pathways