MACONAQUAH HIGH SCHOOL



COURSE DESCRIPTION BOOK

2026-2027

MACONAQUAH HIGH SCHOOL
COURSE DESCRIPTION HANDBOOK
Graduates 2025-2028

Mission of Maconaquah High School is:
"Inspiring and empowering our students to meet tomorrow's challenges."

Welcome to Maconaquah High School:
I would like to welcome each of you to Maconaquah High School. I'm sure you will find your experience here to be an enjoyable one because of our excellent faculty/staff and our outstanding facilities. We challenge our students to seek their full potential both in and out of the classroom. Our hope is that many of you will distinguish yourselves while a student at Maconaquah, just like so many have done before. Our goal is to work together with the students to help them realize their hopes and dreams as they continue to pursue existing standards and traditions as well as to establish new ones.

David Durkes
High School Principal

Maconaquah School Corporation has a policy that educational services, programs, instruction, and facilities will not be denied to anyone as the result of his or her age, race, color, gender, handicapping condition, or national origin, including limited English proficiency. For further information, clarification, or complaint please contact the following person:

Craig Jernagan
Superintendent
7932 South Strawtown Pike
Bunker Hill, IN 46914
Telephone: 765.689.9131 ext. 105

More information on our guidance department services can be found at the following website;

https://www.maconaquah.k12.in.us/groups/4053/guidance/guidance

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DIPLOMA REQUIREMENTS CLASSES 2027-2028

All candidates for the high school diploma shall be required to have at least 8 semesters of attendance in grades 9 through 12 unless they have obtained permission from the principal by submitting a written request prior to scheduling for their senior year.

THE COMPLETION OF THE CORE 40 IS AN INDIANA GRADUATION REQUIREMENT. INDIANA'S CORE 40 CURRICULUM PROVIDES THE ACADEMIC FOUNDATION ALL STUDENTS NEED TO SUCCEED IN COLLEGE AND THE WORKFORCE.

To graduate with less than a Core 40, the following opt-out process must be completed:

* The student, the student's parent/guardian, and the student's counselor (or another staff member i.e. principal, meet to discuss the student's progress.
* The student's career and course plan is reviewed.
* The student's parent/guardian determines whether the student will achieve greater educational benefits by completing the general curriculum or the Core 40 curriculum. Approval required by the Principal.
* If the decision is made to opt-out of Core 40, the student is required to complete the course and credit requirements for a general diploma, and the career/academic sequence the student will pursue is determined.

INDIANA CORE 40

Language Arts	8 credits in English (9-12)
Mathematics	6 credits as follows: 2 credits Algebra I 2 credits Geometry 2 credits Algebra II
Science	6 credits in laboratory science as follows: 2 credits Biology I 2 credits Integrated Chem/Physics, Chemistry I or Physics I 2 credits any Core 40 science course
Social Studies	6 credits as follows: 2 credits U.S. History (AP, ACP) 1 credit U.S. Government/(DC) 1 credit Economics/(AP) 2 credits World History/Civilization
Directed Electives	5 credits as follows: World Languages, Fine Arts, Career/Technical
Physical Ed	2 credits
Health & Wellness	1 credit
Electives	10 credits (Career Academic Sequence Recommended)
Total	**44 credits**

INDIANA CORE 40 with ACADEMIC HONORS

In addition to Core 40 requirements listed above, students must also:

- ★ **Earn 2 additional Core 40 Math credits**
- ★ **Earn 6-8 World Language credits**
- ★ **Earn 2 Fine Arts credits**
- ★ **Earn 4 additional elective credits of choice to equal 48 total**
- ★ **Earn a grade of "C" or above in courses that will count toward the diploma, and**
- ★ **Have a cumulative grade point average of "B" or better, and**
- ★ **Complete one of the following:**
  - Two Advanced Placement courses including AP exams, or
  - Academic, transferable dual high school/college courses resulting in 6 college credits, or
  - One Advanced Placement course including AP exam and an Academic transferable dual high school/ college course resulting in 3 college credits, or
  - Score 1200 or higher combined SAT math and verbal, or
  - Score a 26 composite ACT

INDIANA CORE 40 with TECHNICAL HONORS

In addition to Core 40 requirements listed above, students must also:

- ★ **Earn a grade of "C" or above in courses that will count toward the diploma, and**
- ★ **Have a cumulative grade point average of "B" or better, and**
- ★ **Complete a Career/Technical program resulting in 8-10 credits, and**
- ★ **Earn a state-recognized certification or certificate of Technical Achievement in the Career/Technical Program**

INDIANA Certificate of Completion

Available to students on a non-diploma track. The state of Indiana states that a student must attain a minimum total 40 credits/applied units: It is expected that these requirements are met through enrollment in a combination of general education courses for credit, modified general education courses in which non-credit applied units are earned and special education courses in which non-credit applied units are earned. The Course of Study for the Certificate of Completion is a framework for aligning curriculum to grade level standards while meeting the individual goals and transition needs stated in the student's Individual Education Plan (IEP). See the Guidance Department if you have any other questions.

DIPLOMA REQUIREMENTS FOR THE CLASSES OF 2029 AND BEYOND

THE COMPLETION OF THE FUTURE NEW INDIANA DIPLOMA (formerly Core 40) IS AN INDIANA GRADUATION REQUIREMENT. INDIANA'S CURRICULUM PROVIDES THE ACADEMIC FOUNDATION ALL STUDENTS NEED TO SUCCEED IN COLLEGE AND THE WORKFORCE.

	FUTURE NEW INDIANA DIPLOMA
Language Arts	8 credits in English 9 1 credit: Communications-focused course 5 additional English credits
Mathematics	7 credits as follows: 2 credits Algebra I 1 credit: Personal Finance 4 additional Math credits
Science	7 credits as follows: 2 credits Biology I 1 credit: Computer Science 2 additional science credits 2 STEM-focused credits
Social Studies	5 credits as follows: 2 credits U.S. History (AP, ACP) 1 credit U.S. Government/(DC) 2 credits: World Perspectives (Flexible options, including advanced world language or world-focused social studies courses.)
Physical Ed/Health	2 credits as follows: 1 credit Physical Education 1 credit Health and Wellness
Personalized Electives	12 credits Students are encouraged to utilize the new readiness-seals to align these personalized electives with their unique goals. Personalized electives can include a variety of purses, such as CTE, Performing or Fine Arts, and World Languages.
College and Careers	1 credit
Total	**42 credits**

INDIANA DEPARTMENT of EDUCATION

BLUEPRINT FOR SUCCESS: READINESS-SEALS

Readiness seals are designed to be permeable, allowing students to update their graduation plan and pivot, if their original interests and goals change. Although seals are optional, students are encouraged to utilize the blueprints below to focus their flexible credits into a connected pathway that aligns with their future goals. Students may earn one or multiple seals. Graduation Pathways requirements will be satisfied through completion of any seal.

	ENROLLMENT	EMPLOYMENT	ENLISTMENT & SERVICE

HONORS SEAL	• Complete at least 4 World Language and 6 Social Studies credits
	• Complete at least 8 Math credits
	  ○ Algebra I plus Geometry, Algebra II, and Pre-Calculus or any advanced math credits aligned to their course of study
	• Complete at least 6 Science credits
	  ○ Biology I plus Chemistry and Physics or any advanced lab science credits aligned to their course of study
	• Earn a C or higher in all courses and earn a cumulative B average
	• Complete one of the following:
	  ○ Earn 4 credits in AP, IB, or Cambridge courses and take corresponding exams
	  ○ Earn 6 college credits
	  ○ Score a 1250 on the SAT or a 26 on the ACT
	  ○ Earn two of the following:
	  ■ At least 3 college credits
	  ■ 2 credits in AP courses and take corresponding exams
	  ■ 2 credits in IB courses and take corresponding exams
	  ■ 2 credits in Cambridge courses and take corresponding exams
		• Complete one of the following:
		  ○ A market-driven credential of value* aligned to a specific occupation
		  ○ 3 courses in a Career and Technology Education (CTE) pathway
		  ○ An approved career preparation experience aligned to Indiana's CSA program, or
		  ○ An approved, locally-created pathway
		• Complete 150 hours of work-based learning (may include multiple experiences that are paid, unpaid, on-site, or simulated)
		• Demonstrate skill development in Communication, Collaboration, and Work Ethic
		• Meet attendance goal
			• Complete one of the following:
			  ○ Introduction to Public Service course or approved locally-created equivalent
			  ■ Emphasis on developing an awareness of the physical standards and character required for service
			  ○ One year of JROTC in high school
			• Achieve a score of 31 on the ASVAB and complete one of the following:
			  ○ All three components of the Career Exploration Program
			  ○ A career exploration tool approved by IDOE
			• Meet attendance goal
			• Demonstrate skill development in Communication, Collaboration, and Work Ethic
			  ○ Externally verified through a mentorship experience with current military personnel, veterans, or other public safety professionals

HONORS PLUS SEAL	Earn the Honors Enrollment Seal, **plus**:
	• Earn a credential of value* that may include, for example:
	  ○ Associate degree;
	  ○ Technical Certificate;
	  ○ Indiana College Core;
	  ○ AP Scholar with Distinction;
	  ○ Cambridge AICE Diploma; or
	  ○ IB Diploma
	• Complete at least 75 hours of work-based learning (may include multiple experiences that are paid, unpaid, on-site, or simulated)
	• Demonstrate skill development in the following areas: Communication, Collaboration, and Work Ethic
		Earn the Honors Employment Seal, **plus**:
		• Earn a market-driven credential of value* that may include, for example:
		  ○ Associate degree;
		  ○ Technical Certificate;
		  ○ Indiana College Core; or
		  ○ Advanced industry certificate
		• Complete additional work-based learning (total of 650 hours in one or more experiences) that may include, for example:
		  ○ Pre-Apprenticeship
		  ○ Modern Youth Apprenticeship
		• Demonstrate skill development in Communication, Collaboration, Work Ethic, and any additional skills determined locally
			Earn the Honors Enlistment Seal, **plus**:
			• Complete one of the following:
			  ○ Achieve a score of 50 or higher on the ASVAB
			  ○ Enrollment in ROTC at the collegiate level
			  ○ Acceptance to a service academy
			• Demonstrate excellence in leadership through one of the following:
			  ○ Completion of at least 100 hours of public service;
			  ○ Holding a leadership role in a co/extracurricular activity;
			  ○ Completion of two seasons of a team-based physical sport or activity

*Note: the credential of value levels are currently being determined by business and industry.

Graduation Pathways Checklist

In addition to diploma requirements, the next document is required by the state. Each section must be completed by each student in order to meet all graduation requirements. Our school counselors work closely with each student so they are able to complete each section.

Maconaquah High School

Graduation Pathways Checklist

Class of 2023 and beyond

1. HIGH SCHOOL DIPLOMA OPTION:

ACADEMIC HONORS _____ TECHNICAL HONORS _____ CORE 40 _____ GENERAL DIPLOMA _____ (REQS PARENT SIGN OFF)

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2. LEARN & DEMONSTRATE EMPLOYABILITY SKILLS: MUST COMPLETE **ONE** OF THE FOLLOWING AND COMPLETE THE VERIFICATION FORM

_____PROJECT BASED LEARNING EXPERIENCE:

Students are to gain knowledge and skills by working for an extended period of time to investigate and respond to an authentic, engaging and complex question, problem, or challenge. Students should be engaged in a rigorous, extended process of asking questions, finding resources, and applying information. Students often make their project work public by explaining, displaying, and/or presenting it to people beyond the classroom. Demonstrations include a course capstone project, a completion of a research project, AP Capstone Assessment, or another experience approved by the State Board of Education.

_____ SERVICE BASED LEARNING:

Students are to integrate a meaningful service experience. The experience will include applying academic knowledge, teaching civic and personal responsibility, and strengthen the community. The Service Based Learning experience can include a meaningful volunteer or civic engagement, an engagement in a school based activity such as a co-curricular or extra-curricular activity or sport for at least one full academic year, or another experience approved by the State Board of Education.

_____ WORK BASED LEARNING EXPERIENCE:

Students will participate in a strategy to reinforce academic, technical, and social skills learned in the classroom through collaboration activities with employment partners. Work Based Learning Experiences allow students to apply classroom theories to practical problems, to explore career, interests and options, and pursue professional goals. Worked Based Learning Experiences can include: Completion of a course capstone, completion of an internship, completion of the Governor's Work Ethic Experience Certification, or employment outside the school day, or another experience approved by the State Board of Education

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3. POST SECONDARY COMPETENCIES: STUDENTS MEET **ONE** OF THE REQUIREMENTS/OPTIONS LISTED BELOW:

☐ **_____ HONORS DIPLOMA**: _____ AHD _____ THD

☐ **_____ ACT**: College Ready Benchmarks. Students must meet 2 of the 4 requirements, either English OR Reading AND Math OR Science. _____ ENGLISH (18) _____ READING (22) _____ MATH (22) _____ SCIENCE (23)

☐ **_____ SAT:** College Readiness Benchmarks.
_____ ERW (480) _____ MATH (530)

☐ **_____ ASVAB:** Earn at least a minimum AFQT score to qualify for placement into one of the branches of the US Military.
_____ AFQT SCORE (31)

☐ **_____ State and Industry-Recognized Credential or Certification:**

· **Certification**: _____

☐ **_____ CTE (Career and Technical Education) CONCENTRATOR: A "C" average in at least 2 advanced high school credits in a state-approved CTE Pathway · Pathway** _____

ADV. CTE Class 1_____ Grade: _____

ADV. CTE Class 2_____ Grade: _____ CTE GPA: _____

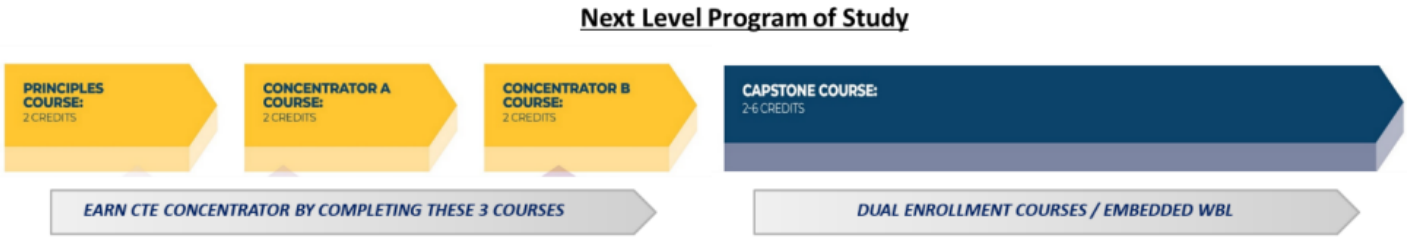
☐ ____ **AP/DUAL CREDIT: "C" average in 3 AP or DUAL CREDIT courses. Must be in a pathway or 1 of 3 must be in English, Math, Science, or Social Studies** AP/DC 1_____ AP/DC 2_____ AP/DC 3_____ AP/DC GPA: _____

☐ ____ **LOCALLY CREATED PATHWAY (LCP): SBOE approved LCP**

NEXT LEVEL PROGRAMS OF STUDY - CAREER AND TECHNICAL EDUCATION

Maconaquah High School has launched several new career and technical education courses for the 2026-2027 school year. This initiative, set forth by the Department of Workforce Development and the Governor's Workforce Cabinet, is called Next Level Programs of Study (NLPS). The initiative will improve the consistency, quality, and intentionality of CTE instruction across Maconaquah High School CTE programs. At Maconaquah High School, we are committed to offering programs of study that will lead to 21st century skills development and gainful employment for students upon completion of high school or post-secondary education endeavors. It is the recommendation of MHS Administration that all students become a concentrator in at least one pathway prior to graduation. Flexibility in scheduling is critical and can allow students to become pathway concentrators or pathway completers in more than one pathway. Additionally, flexibility in the NLPS Pathways allows students to continue to diversify their studies and maintain a well rounded four year plan of study by taking AP courses, Honors courses, Fine and Performing Arts courses, and other electives in our core program areas.

Maconaquah High School, through its partnership with Ivy Tech Community College, Indiana University Kokomo, and our very own professional educators on staff now offer the following Next Level Programs of Study in the following Career and Technical Education program areas;



Department	Career Cluster	Career Pathway	NLPS Pathway
Agriculture	Agriculture, Food Natural Resources	Agriscience	Animal Agriscience
		Agriscience	Plant & Soil Agriscience
Business	Information Technology	Networking/Info. Tech Operations	Networking
	Marketing	Marketing and Sales	Marketing
	Radio & TV	Radio & TV	Radio & TV
Family and Consumer Science	Education and Training	Education Careers	Education Careers
	Hospitality and Tourism	Culinary Arts	Culinary Arts
	Early Childhood	Early Childhood	Early Childhood
Health Sciences	Health Care	Healthcare Professions	Pre-Medical/Nursing
Industrial Technology	Advanced Manufacturing	Welding	Welding Technology

	Architecture & Construction	Construction Trades	Carpentry
Automotive	Automotive Service Technology		

NEXT LEVEL PROGRAMS OF STUDY - COURSE SEQUENCES

Maconaquah High School Next Level Programs of Study Course Sequences									
Introductory Courses/Alternate Courses		**Principles - Level I**		**CTE Concentrator A - Level I**		**CTE Concentrator B - Level I**		**Pathway Capstone - Level II**	
5056	Introduction to Agriculture (Grade 8)	7117	Principles of Agriculture	5008	Animal Science - NLPS	5070	Advanced Life Science, Animals (L) - NLPS	7238	Agribusiness Capstone
5056	Introduction to Agriculture (Grade 8)	7117	Principles of Agriculture	5170	Plant and Soil Science - NLPS	5074	Advanced Life Science, Plants and Soils (L) - NLPS	7238	Agribusiness Capstone
		7183	Principles of Computing	7180	Information Technology Fundamentals	7182	Networking Fundamentals	7251	Networking Capstone
		4562	Principles of Business Management	5914	Marketing Fundamentals	7145	Digital Marketing	7201	Business Management Capstone
		7139	Principles of Broadcasting	7306	Audio and Video Production Essentials	7307	Mass Media Production**	7308	Radio & TV Broadcasting Capstone
		7161	Principles of Teaching	7157	Child and Adolescent Development	7162	Teaching and Learning	7267	Education Professions Capstone
		7160	Principles of Early Childhood	7158	Early Childhood Education Curriculum	7159	Early Childhood Education Guidance**	7259	Early Childhood Education Capstone**
		7173	Principles of Culinary and Hospitality	7171	Nutrition	7169	Culinary Arts		
		7168	Principles of Healthcare	5274	Medical Terminology - NLPS	7166	Healthcare Specialist: C N A	7255	Healthcare Specialist Capstone
		7168	Principles of Healthcare	5274	Medical Terminology- NLPS		Healthcare Specialist: CCMA	7255	Healthcare Specialist: Capstone
		7110	Principles of Welding	7111	Shielded Metal Arc	7101	Gas Welding Processes	7226	Welding Technology

			Technology		Welding				Capstone
4792	Introduction to Construction Trades, 9-10	7130	Principles of Construction Trades	7123	Construction Trades: General Carpentry	7122	Construction Trades: Framing and Finishing	7242	Construction Trades Capstone**
		7213	Principles of Automotive Services	7205	Brake Systems	7212	Steering and Suspensions**	7375	Automotive Service Capstone**
	SMDI-Smart Manufacturing	7220	Principles of Industry 4.0 and Digital Manufacturing	4728	Robotics Design and Innovation	7100	Digital Manufacturing Systems	7222	Adv Manu-Industry 4.0 Capstone
									**Indicates Future Course Offering

AGRICULTURE DEPARTMENT

PRINCIPLES OF AGRICULTURE - ELECTIVE, WC(3.0) Course#451/451H DOE# 7117
PRIN AG
Grade: 9-10-11-12
Semesters: 2
Credits: 2, **Dual Credit through IVTCC, AGRI 100**
Prerequisite: None

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. Management of the Maconaquah Cattle Company herd and row crop acreage will be a primary focus in this course.

Next Level Plan of Study - Animal Agriscience Pathway

ANIMAL SCIENCE- ELECTIVE, WC(3.0) Course# 456H/459H - DOE# 5008
ANML SCI
Grade: 10-11-12
Semesters: 2
Credits: 2, **Dual Credit through IVTCC, AGRI 103**
Required Prerequisites: Principles of Agriculture
Fulfills a science course requirement for all diplomas, elective, or directed elective

Animal Science is a two-semester course that provides students with an overview of the animal agriculture industry. Students participate in a large variety of activities and laboratory work including real and simulated animal science experiences and projects. All areas that the students study may be applied to both large and small animals. Topics to be covered in the course include: history and trends in animal agriculture, laws and practices relating to animal agriculture, comparative anatomy and physiology of animals, biosecurity threats and interventions relating to animal and human safety, nutrition, reproduction, careers, leadership, and supervised agricultural experiences relating to animal agriculture. Management of the school's livestock programs will be the primary focus of this course.

ADVANCED LIFE SCIENCE: ANIMALS - ELECTIVE, WC(3.0) Course# 226H/227H - DOE# 5070
ALS ANIML
Grade: 11-12
Semesters: 2
Credits: 2, **Dual Credit through IVY TECH, AGRI 107**
Required Prerequisites: Animal Science
Fulfills a science course requirement for all diplomas, elective, or directed elective

Advanced Life Science: Animals is a two-semester course that provides students with opportunities to participate in a variety of activities including laboratory work. Students will explore concepts related to history and trends in animal agriculture as related to animal welfare, husbandry, diseases and parasites, laws and practices relating to handling, housing, environmental impact, global sustainable practices of animal agriculture, genetics, breeding practices, biotechnology uses, and comparative knowledge of anatomy and physiology of animals used in animal agriculture. Management of the school's livestock programs will be the primary focus of this course.

Next Level Plan of Study - Plant and Soil Agriscience Pathway

PLANT & SOIL SCIENCE- ELECTIVE, WC(3.0) Course# 462/462H- DOE# 5170
PLT SL SCI
Grade: 10-11-12
Semesters: 2
Credits: 2, **Dual Credit through IVTCC, AGRI 105**
Required Prerequisites: Principles of Agriculture
Fulfills a science course requirement for all diplomas, elective, or directed elective

Plant and Soil Science a two semester course that provides students with opportunities to participate in a variety of activities including laboratory and field work. Coursework includes hands-on learning activities that encourage students to investigate areas of plant and soil science. Students are introduced to the following areas of plant and soil science: plant growth, reproduction and propagation,photosynthesis and respiration, diseases and pests of plants and their management, biotechnology, the basic components and types of soil, soil tillage, and conservation. Management of the school's row crop acreage will be a primary focus of this course.

ADVANCED LIFE SCIENCE: PLANTS AND SOILS - ELECTIVE, WC(3.0) Course#460H/461H - DOE#5074
ALS PLT/SL
Grade: 11-12
Semesters: 2
Credits: 2, **Dual Credit through IVY TECH, AGRI 109**
Required Prerequisite: Plant and Soil Science
Fulfills a science course requirement for all diplomas, elective, or directed elective

Advanced Life Science: Plants and Soils is a two semester course that provides students with opportunities to participate in a variety of activities including laboratory work. Students study concepts, principles, and theories associated with plants and soils. Knowledge gained enables them to better understand the workings of agricultural and horticultural practices. They recognize how plants are classified, grow, function, and reproduce. Students explore plant genetics and the use of plants by humans. They examine plant evolution and the role of plants in ecology. Students investigate, through laboratories and fieldwork, how plants function and how soil influences plant life. Management of the school's row crop acreage will be a primary focus of this course.

Next Level Plan of Study - Agriculture Capstone Course

AGRIBUSINESS CAPSTONE - ELECTIVE Course #452H/453H - DOE #7238
AG BUS CAP
Grade: 12
Semesters: 2
Credits: 2
Required Prerequisites: Successful completion of Agriculture Concentrator

Agribusiness Management Capstone 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 agriculture experience (work-based learning) programs.

BUSINESS DEPARTMENT

Business Technology Electives - Networking Pathway Introductory Courses *Currently Unavailable

INTRODUCTION TO COMPUTER SCIENCE - ELECTIVE Course #516H – DOE# 4803
INTO CS
Grade: 9,10,11, 12
Semesters: 1
Credits: 1

Introduction to Computer Science allows students to explore the world of Computer Science. Students will gain a broad understanding of the areas composing Computer Science. Additionally, there will be a focus on the areas of computer programming, gaming/mobile development, and artificial intelligence/robotics

Next Level Plan of Study - Networking Pathway

PRINCIPLES OF COMPUTING - ELECTIVE, WC(3.0) Course #499/499H - DOE# 7183
PRIN COMP INFO
Grade: 9-10-11
Semesters: 2
Credits: 2, **Dual Credit through IVY TECH, INFM 109**
Prerequisite: None

Principles of Computers and Informatics 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.

INFORMATION TECHNOLOGY FUNDAMENTALS - ELECTIVE Course# 508H/509H **-** DOE# 7180
INFO TECH FUN
Grade: 10-11-12
Semesters: 2
Credits: 2
Required Prerequisite: Principles of Computers and Informatics

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

COMPUTER NETWORKING FUNDAMENTALS - ELECTIVE, WC(3.0) Course# 510H/511H - DOE# 7182
NTWK FUN
Grades: 10-11-12
Semesters: 2
Credits: 2, **Dual Credit through IVY TECH, NETI 109**
Required Prerequisite: Information Technology Fundamentals, Recommended GPA of a C (5.0)

This course introduces students to concepts of local and wide area networks, home networking, networking standards using the IEEE/OSI model, network protocols, transmission media and network architecture/topologies. Security and data integrity will be introduced and emphasized throughout this course. The purpose of this course is to offer students the critical information needed to successfully move into a role as an IT professional supporting networked computers. Concepts covered will include TCP/IP client administration, planning a network topology, configuring the TCP/IP protocol, managing network clients, configuring routers and hubs as well as creating a wireless LAN.

Next Level Plan of Study - Networking Capstone Course

COMPUTER NETWORKING CAPSTONE - ELECTIVE, Weighted Course (3), Course#512H/513H DOE# 7251
NETWK CAP
Grades: 11-12
Semesters: 2

Credits: 2, **Dual Credit through IVY TECH**
Required Prerequisite: Information Technology Fundamentals, Recommended GPA of a C (5.0)

Networking Capstone includes hands-on lab work, and a wide array of assessment types and tools. The course covers the architecture, components, and operations of routers and switches in small networks and introduces wireless local area networks (WLAN) and security concepts. Students learn how to configure and troubleshoot routers and switches for advanced functionality using security best practices and resolve common issues with protocols in both IPv4 and IPv6 networks. The course also emphasizes network security concepts and introduces network virtualization and automation. Students learn how to configure, troubleshoot, and secure enterprise network devices and understand how application programming interfaces (API) and configuration management tools enable network automation.

Next Level Plan of Study - Marketing Pathway

COMPUTING FOUNDATIONS FOR A DIGITAL AGE-REQUIRED Course #517 DOE#4565
COMPFOUND
Grade: 9
Semesters: 1
Credits: 1
Prerequisites: None
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 five 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

PRINCIPLES OF BUSINESS MANAGEMENT - ELECTIVE Course#498/498H -NLPS#4562
PRIN BUS
Grade: 9-10-11-12
Semesters:2
Credits:2
Prerequisites: None

Principles of Business examines American business including business ownership, organization principles and problems, management, control facilities, administration, financial management, and development practices of American 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 Microsoft Word, Excel, Access, and PowerPoint.

MARKETING FUNDAMENTALS - ELECTIVE Course# 502/502H DOE# 5914
MRKT FUND
Grade: 10, 11, 12
Semesters: 2
Credits: 2
Prerequisites: Principles of Business Management

Principles of Marketing provides a basic introduction to the scope and importance of marketing in the global economy. Emphasis is placed on oral and written communications, mathematical applications, problem-solving, and critical thinking skills as they relate to advertising/promotion/selling, distribution, financing, marketing-information management, pricing, and product/service management.

DIGITAL MARKETING - ELECTIVE Course# 497/497H DOE#7145
DGTL MARK
Grade: 10-11-12
Semesters 2
Credits: 2
Prerequisites: Principles of Business Management and Marketing Fundamentals

Digital Marketing provides an introduction to the world of e-commerce and digital marketing media. The course covers how to integrate digital media and e-commerce into organizational and marketing strategy. Students will explore e-commerce applications and the most popular digital marketing tactics and tools. Emphasizes familiarity with executing digital media, understanding the marketing objectives that digital media can help organizations achieve, and establishing and enhancing an organization's digital marketing presence.

BUSINESS MARKETING CAPSTONE
BUS MGMT CAP Course# DOE# 7201
Grade:
Semesters:
Credits
Prerequisites:

The Business Management Capstone is designed to provide any student with the Business Management skills necessary to run their own business or to serve in upper level management. Students will explore Management Theory, Accounting, and Business Law. The Business Management Capstone can be used with any career pathway except Business Administration. Completion of the course may allow students the opportunity to earn a CT or TC through ITCC.

Next Level Plan of Study - Radio and Television Pathway

Course# 526/526H-DOE# 7139

PRINCIPLES OF BROADCASTING
PRIN BROAD
Grade: 9, 10, 11
Semesters: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum
The purpose of the Principles of Broadcasting course is to provide entry-level fundamental skills for students who wish to seek or pursue opportunities in the field of broadcasting or mass media. Students will explore the technical aspects of audio and sound design for radio production and distribution, as well as, the technical aspects of video production and distribution. Counts as a directed elective or elective for all diplomas

AUDIO AND VIDEO PRODUCTION ESSENTIALS Course# 527/527H -DOE# 7306
AUD VID PROD
Grade: 10, 11, 12
Semesters: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum
Required Prerequisites: Principles of Broadcasting
Audio and Video Production Essentials provides an in-depth study on audio and video production techniques for radio, television, and digital technologies. Students will learn skills necessary for audio production and on-air work used in radio and other digital formats. Additionally, experience will be gained in the development of the video production process; including skills in message development, directing, camera, video switcher, and character generator operations. Counts as a Directed Elective or Elective for all diplomas

MASS MEDIA PRODUCTION Course# 528/528H -DOE# 7307
MASS MED PROD
Grade: 10, 11, 12
Semesters: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum
Required Prerequisites: Principles of Broadcasting; Audio and Video Production Essentials
Mass Media Production will focus on the study of theory and practice in the voice and visual aspects of radio and television performance. In addition, this course introduces the skills used to acquire and deliver news stories in a digital media format. Students will learn how to research issues and events, interview news sources, interact with law enforcement and government officials, along with learning to write in a comprehensive news style. Counts as a Directed Elective or Elective for all diplomas

RADIO & TV BROADCASTING CAPSTONE Course# 529/529H -DOE# 7308
RAD TV BROAD CAP
Grades: 11, 12
Semesters:2 semester course, 2 semesters required, 1-3 credits per semester, 6 credits maximum
Required Prerequisites: Principles of Broadcasting; Audio and Video Production Essentials; Mass Media Production
This course will cover a variety of domains further building on skills in video production, and broadcast industry practices specific to radio, television, and digital media. Attention will be given to cross-industry synergies, emerging technologies, and the global market for media. Students are highly encouraged to do a video newscast or radio practicum to gain real world experience. In

most cases this practicum may be completed through a school-based enterprise. Counts as a Directed Elective or Elective for all diplomas.

Business Management and Marketing Electives - Non-NLPS Pathway Courses

PERSONAL FINANCIAL RESPONSIBILITY - ELECTIVE Course#503H- DOE# 4540
PRS FIN RSP
Grade: 11-12
Semesters: 1
Credits: 1

The course addresses the identification and management of personal financial resources to meet the financial needs of individuals and families. Students will build skills in financial responsibility and decision making; analyze personal standards, needs, wants, and goals; identify sources of income, saving and investing; understand banking, budgeting, record-keeping and managing risk, insurance and credit card debt.

COMPUTING FOUNDATIONS FOR A DIGITAL AGE-REQUIRED Course #517 DOE#4565
COMPFOUND
Grade: 9
Semesters: 1
Credits: 1
Prerequisites: None
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 five 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

FAMILY & CONSUMER SCIENCE DEPARTMENT

Next Level Plan of Study - Education and Training Pathway

PRINCIPLES OF TEACHING - ELECTIVE, WC(3.0) Course # 378H/ 379H - DOE# 7161
PRIN TEACH
Grades: 11, 12
Semesters: 2
Credits: 2, **Dual Credit through Ivy Tech, EDUC F-200**
Prerequisites: None, Recommended successful completion of Peer Tutoring, Concurrent Enrollment in DOE - 7157 CHLD ADL DEV, 5.8/12.0 GPA

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 minimum 20 hour classroom observation experience is required for successful completion of this course. Each participant must 1) provide transportation to and from the assigned school, 2) participate in student car pools, or 3) request an assignment at Maconaquah Elementary School, which is within walking distance.

CHILD AND ADOLESCENT DEVELOPMENT - ELECTIVE, WC(3.0) Course# 372/372H - NLPS# 7157
CHLD ADL DEV
Grades: 11, 12
Semesters: 2
Credits: 2, **Dual Credit through Ivy Tech**, **EDUC P-214**
Required Prerequisites: Recommended successful completion of Peer Tutoring, Concurrent Enrollment in DOE - 7161 PRIN TEACH, 5.8/12.0 GPA

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.

TEACHING AND LEARNING - ELECTIVE, WC(3.0) Course# 371/371H - DOE #7162
TEACH LRN
Grade: 12
Semesters: 2
Credits: 2, **Dual Credit through Ivy Tech, EDUC W-200**
Required Prerequisites: Principles of Teaching, Child and Adolescent Development, Concurrent Enrollment in DOE - 7267 ED PROF CAP, 5.8/12.0 GPA

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. Counts as a directed elective or elective for all diplomas

EDUCATION PROFESSIONS CAPSTONE - ELECTIVE, WC(3.0) Course# 384/384H - DOE #7267
ED PROF CAP
Grade: 12
Semesters: 2
Credits: 2, **Dual Credit through Ivy Tech, EDUC K-205**
Required Prerequisites: Principles of Teaching, Child and Adolescent Development, Concurrent Enrollment in DOE - 7162 TEACH LRN, 5.8/12.0 GPA

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.

Next Level Plan of Study - Culinary Arts Pathway

PRINCIPLES OF CULINARY ARTS & HOSPITALITY - ELECTIVE Course# 382/382H – DOE# 7173
PRIN HOSP
Grades: 9, 10, 11, 12
Semesters: 2
Credits: 2
Required Prerequisite: None

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.

NUTRITION - **ELECTIVE** Course# 376/376H DOE# 7171
NUTR
Grades: 10, 11, 12
Semesters: 2
Credits: 2
Required Prerequisites: Principles of Culinary and Hospitality

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. Counts as a directed elective or elective for all diplomas

CULINARY ARTS - ELECTIVE Course# 383/383H DOE# 7169
CUL ARTS
Grades: 11, 12
Required Prerequisites: Nutrition
Semesters: 2
Credits: 2

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.

Next Level Plan of Study - Early Childhood Pathway

PRINCIPLES OF EARLY CHILDHOOD EDUCATION Course#386/386H -DOE #7160
PRIN EAR CH ED
Grade: 9, 10, 11
Semesters: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum
Required Prerequisites: None
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. Counts as a directed elective or elective for all diplomas

EARLY CHILDHOOD EDUCATION CURRICULUM Course#387/387H -DOE #7158
EAR CHD ED CUR
Grade: 10, 11, 12
Semesters: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum
Required Prerequisites: Principles of Early Childhood Education
Early Childhood Education Curriculum examines developmentally appropriate environments and activities in various childcare settings while exploring the varying developmental levels and cultural backgrounds of children. Students may be required to complete observations and field experiences with children as part of this course. ● Recommended Grade(s): 10, 11, 12 ● Required Prerequisites: Principles of Early Childhood Education. Counts as a directed elective or elective for all diplomas.

EARLY CHILDHOOD EDUCATION GUIDANCE Course#388/388H -DOE#7159
EAR CHD ED GD
Grade:11, 12
Semesters: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum
Required Prerequisites: Principles of Early Childhood Education
This course allows students to analyze developmentally appropriate guidance, theory and implementation for various early care and education settings. It also provides a basic understanding of the anti-bias/multicultural emphasis in the field of early childhood. Students may be required to complete observations and field experiences with children as part of this course. ● Recommended Prerequisites: None ● ● Counts as a directed elective or elective for all diplomas 269 Indiana Department of Education High School

EARLY CHILDHOOD EDUCATION CAPSTONE Course# 389/389H -DOE#7259
ERLY CHILD CAP
Grade: 11, 12
Semesters: 2 semester course, 2 semesters required, 1-3 credits per semester, 6 credits maximum
Required Prerequisites: Principles of Early Childhood Education; Early Childhood Curriculum; Early Childhood Guidance
This course will prepare students to complete the application, CDA exam, and verification process for the Child Development Associate (CDA) credential. Students may also study the physical, social, emotional, cognitive, and moral development of children from conception to age twelve. Theories of child development, biological and environmental foundations, prenatal development, the birth process, and the newborn baby will be discussed. Additionally, students will explore the aspects of early literacy skill development in young children from birth through third grade. Students will explore techniques, technological tools and other learning opportunities that encourage positive attitudes in children regarding listening, speaking, reading and writing activities. In the course, students will research, examine and explore the use of observation in screening and assessment to promote healthy

literacy development in early childhood education. Finally, students will be provided an introduction to caring for each exceptional child. This includes theories and practices for producing optimal developmental growth. Students may be required to complete observations and field experiences with children as part of this course. Counts as a Directed Elective or Elective for all diplomas.

HEALTH SCIENCES - HEALTHCARE

PRINCIPLES OF HEALTHCARE - ELECTIVE, C40/AHD, WC(3.0) Course# 222/222H - DOE# 7168
PRIN HLCR
Grade: 11, 12
Semesters: 1, Fall Only, 2 Period Block
Credits: 2, **Dual Credit through IU-Kokomo, IUK L230 - Healthcare Delivery Systems**
Prerequisite: Concurrent Enrollment in DOE 5274 MED TERMS, 6.6/12.0 GPA

Principles of Healthcare content includes skills common to specific health career topics such as patient nursing care, dental care, animal care, medical laboratory, public health, and an introduction to healthcare systems. Lab experiences are organized and planned around the activities associated with the student's career objectives.

MEDICAL TERMINOLOGY - ELECTIVE, C40/AHD, WC(3.0) Course# 223/223H - DOE# 5274
MED TERMS
Grade: 11, 12
Semesters: 1, Spring Only, 2 Period Block
Credits: 2, **Dual Credit through IU-Kokomo, IUK HLTM 195 - Medical Terminology**
Prerequisite: Concurrent Enrollment in DOE 7168 PRIN HLCR, 6.6/12.0 GPA

Medical Terminology prepares students with language skills necessary for effective, independent use of health and medical reference materials. It includes the study of health and medical abbreviations, symbols, and Greek and Latin word part meanings, all taught within the context of body systems. This course builds skills in pronouncing, spelling, and defining new words encountered in verbal and written information in the healthcare industry. Students have the opportunity to acquire essential skills for accurate and logical communication, and interpretation of medical records. Emphasis is on forming a foundation of a medical vocabulary including; appropriate and accurate meaning, spelling, and pronunciation of medical terms, and abbreviations, signs, and symbols.

HEALTHCARE SPECIALIST: CNA-ELECTIVE, C40/AHD, WC(3.0) Course# 206/206H-DOE # 7166
HC SPEC CAN
Grade: 11, 12
Semesters: 2 Semester Course, 2 Semesters Required
Credits: 2, **Dual Credit through IU-Kokomo 1 Credit per Semester, 2 Credits Maximum**
Prerequisite: Principles of Healthcare

The Healthcare Specialist: CNA prepares individuals desiring to work as nursing assistants with the knowledge, skills and attitudes essential for providing basic care in extended care facilities, hospitals and home health agencies under the direction of licensed nurses. The course will introduce students to the disease process and aspects of caring for a long-term care resident with dementia. Individuals who successfully complete this course are eligible to apply to sit for the Indiana State Department of Health (ISDH) certification exam for nursing assistants. This course meets the minimum standards set forth by the ISDH for Certified Nursing Assistant training and for health care workers in long-term care facilities.

HEALTHCARE SPECIALIST CAPSTONE, C40/AHD, WC (3.0) Course#207/207H-Doe # 7255
HC SPEC CAP
Grade: 11, 12
Semesters: 2 Semester Course, 2 Semesters Required
Credits: 2, **Dual Credit through IU-Kokomo 1 Credit per Semester, 2 Credits Maximum,**
Prerequisite: Principles of Healthcare

The Healthcare Specialist Capstone course will facilitate healthcare students' acquisition of additional knowledge and skills necessary to work in a variety of healthcare settings beyond a long term care facility including hospitals, doctors' offices, and clinics. Students can accomplish this goal by completing coursework that will cover topics such as Medical Law and Ethics, Electronic Health Records, and/or Behavioral Health. Schools may offer additional healthcare certifications such as the Certified Clinical Medical Assistant (CCMA) or Phlebotomy along with the coursework or in place of the coursework.

INDUSTRIAL TECHNOLOGY DEPARTMENT

Construction Electives - Non-NLPS Pathway Courses, Introductory Course

Introduction to Construction - ELECTIVE Course #1009/1009H DOE# 4792
INT CONST
Grades: 9,10
Semesters: 1
Credits: 1
Prerequisite: None

Introduction to Construction is the introductory course into the MHS Construction Trades Pathway. Successful completion of the OSHA 10 Hour Safety Certification is required. Introduction to Construction is a course that will offer hands-on activities and real-world experiences related to the skills essential in residential, commercial and civil building construction. During the course students will be introduced to the history and traditions of construction trades. The student will also learn and apply knowledge of the care and safe use of hand and power tools as related to each trade. In addition, students are introduced to blueprint reading, applied math, basic tools and equipment, and safety. Students will demonstrate building construction techniques, including concrete and masonry, and framing as developed locally in accordance with available space and technologies. Students learn how architectural ideas are converted into projects and how projects are managed during a construction project in this course. Students study construction technology topics such as preparing a site, doing earthwork, setting footings and foundations, building the superstructure, enclosing the structure, installing systems, finishing the structure, and completing the site. Students also investigate topics related to the purchasing and maintenance of structures, special purpose facilities, green construction and construction careers.

Next Level Plan of Study - Construction Trades Pathway

Principles of Construction Trades - ELECTIVE, WC(3.0) Course #1010H/1011H DOE# 7130
PRIN CON TR
Grades: 10,11,12
Semesters: 2
Credits: 2, **Dual Credit through IVY TECH, BCTI 100**
Prerequisite: Introduction to Construction

Principles of Construction Trades prepares students with the basic skills needed to continue in a construction trade field. Topics will include an introduction to the types and uses for common hand and power tools, learn the types and basic terminology associated with construction drawings, and basic safety. Additionally students will study the roles of individuals and companies within the construction industry and reinforce mathematical and communication skills necessary to be successful in the construction field.

Construction Trades: General Carpentry - ELECTIVE, WC(3.0) Course#1012H/1013H DOE# 7123
CON TRD GC
Grades: 10, 11,12
Semesters: 1 Semester, Fall Only, Blocked Course
Credits: 2, **Dual Credit through IVY TECH, BCTI 101**
Prerequisite: Principles of Construction Trades, Concurrent Enrollment in DOE 7122 - CON TRD FF FIN

Construction Trades: General Carpentry builds upon the skills learned in the Principles of Construction Trades and examines the basics of framing. This includes studying the procedures for laying out and constructing floor systems, wall systems, ceiling joist and roof framing, and basic stair layout. Additionally, students will be introduced to building envelope systems.

Construction Trades: Framing and Finishing - ELECTIVE, WC(3.0) Course #1014H/1015H DOE# 7122
CON TRD FR FIN
Grades: 10,11,12
Semesters: 1 Semester, Spring Only, Blocked Course
Credits: 2, **Dual Credit through IVY TECH, BCTI 103**
Prerequisite: Principles of Construction Trades, Concurrent Enrollment in DOE 7123 - CON TRD GC

Construction Trades: Framing and Finishing prepares students with advanced framing skills along with interior and exterior finishing techniques. Topics include roofing applications, thermal and moisture protection, exterior finishing, cold-formed steel framing, drywall installation and finishing, doors and door hardware, suspended ceilings, window, door, floor, and ceiling trim, and cabinet installation.

Next Level Plan of Study - Welding Technology Pathway

Principles of Welding Technology - **ELECTIVE, WC(3.0)** Course #1000/1000H DOE# 7110
PRIN WEL TCH
Grades: 10,11,12
Semesters: 1 Semester, Fall Only, Blocked Course
Credits: 2, **Dual Enrollment through IVY TECH, WELD 100/WELD 271**
Prerequisite: None, Concurrent Enrollment in DOE 7111 SHLD MAW

Principles of Welding Technology includes classroom and laboratory experiences that develop a variety of skills in oxy-fuel cutting and basic welding. This course is designed for individuals who intend to make a career as a Welder, Technician, Designer, Researcher, or Engineer. Emphasis is placed on safety at all times. OSHA standards and guidelines endorsed by the American Welding Society (AWS) are used. Instructional activities emphasize properties of metals, safety issues, blueprint reading, electrical principles, welding symbols, and mechanical drawing through projects and exercises that teach students how to weld and be prepared for postsecondary and career success.

Shielded Metal Arc Welding - ELECTIVE, WC(3.0) Course #1001/1001H DOE# 7111
SHLD MAW
Grades: 10,11,12
Semesters: 1 Semester, Spring Only, Blocked Course
Credits: 2, **Dual Enrollment through IVY TECH, WELD 108/WELD 206**
Prerequisite: None, Concurrent Enrollment in DOE 7110 - PRIN WEL TECH

Shielded Metal Arc Welding involves the theory and application of the Shielded Metal Arc Welding process. Process theory will include basic electricity, power sources, electrode selection, and all aspects pertaining to equipment operation and maintenance. Laboratory welds will be performed in basic weld joints with a variety of electrodes in the flat, horizontal and vertical positions. Emphasis will be placed on developing the basic skills necessary to comply with AWS industry standards.

Gas Welding Processes - ELECTIVE, WC(3.0) Course #1002/1002H DOE# 7101
GAS WEL PRC
Grades: 11,12
Semesters: 1 Semester, Fall Only, Blocked Course
Credits: 2, **Dual Enrollment through IVY TECH, WELD 207/WELD 272**
Prerequisite: Principles of Welding Technology, Shielded Metal Arc Welding, Concurrent Enrollment in DOE 7226 - WEL TECH CAP

Gas Welding Processes is designed to cover the operation of Gas Metal Arc Welding (MIG) equipment. This will include all settings, adjustments and maintenance needed to weld with a wire feed system. Instruction on both short-arc and spray-arc transfer methods will be covered. Tee, lap, and open groove joints will be done in all positions with solid, flux core, and aluminum wire. Test plates will be made for progress evaluation. Schools may choose to offer the course as a comprehensive MIG Welding course or a combination of introductory MIG and TIG Welding operations.

Welding Technology Capstone - ELECTIVE, WC(3.0) Course #1003/1003H DOE# 7226
WELD TECH CAP
Grades: 11,12
Semesters: 1 Semester, Spring Only, Blocked Course
Credits: 2, **Dual Enrollment through IVY TECH, WELD 208/WELD 273**
Prerequisite: Principles of Welding Technology, Shielded Metal Arc Welding, Gas Welding Processes, Concurrent Enrollment in DOE 7101 - GAS WEL PRC

The Welding Technology Capstone course builds upon the knowledge and skills developed in Welding Fundamentals, Shielded Metal Arc Welding, and Gas Metal Arc Welding by developing advanced welding skills in Gas Tungsten Arc Welding (TIG), Pipe Welding, and Fabrication. As a capstone course, students should have the opportunity

Automotive

Next Level Plan of Study - Automotive Pathway

PRINCIPLES OF AUTOMOTIVE SERVICES Course #7213 DOE#7213
PRIN AUTO SER
Grade: 11
Required Prerequisites: *****This course is off campus and will be on a case by case basis. An interview will take place, grades and attendance will be taken into consideration. Must have transportation, valid driver's license, and no speeding ticket violations.***
Semesters: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum

Principles of Automotive Services gives students an overview of the operating and general maintenance systems of the modern automobile. Students will be introduced to the safety and operation of equipment and tools used in the automotive industry. Students will study the maintenance and light repair of automotive systems. Also, this course gives students an overview of the electrical operating systems of the modern automobile. Students will be introduced to the safety and operation of equipment and tools used in the electrical diagnosis and repair in the automotive electrical industry. Students will study the fundamentals of electricity and automotive electronics. Counts as a directed elective or elective for all diplomas.

BRAKE SYSTEMS Course #7205 DOE# 7205
BRK SYS
Grades: 11, 12
Required Prerequisites: Principles of Automotive Services , *****This course is off campus and will be on a case by case basis. An interview will take place, grades and attendance will be taken into consideration. Must have transportation.***
Semesters: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum

Brake Systems teaches theory, service, and repair of automotive braking systems. This course provides an overview of various mechanical brake systems used on today's automobiles. This course will emphasize professional diagnosis and repair methods for brake systems. Counts as a directed elective or elective for all diplomas Schools partnering with Vincennes University must offer the program of study as part of a 2-3 period block

LANGUAGE ARTS DEPARTMENT

IF A STUDENT FAILS AN ENGLISH CLASS, HE/SHE MAY RETAKE THAT CLASS FOR CREDIT WHILE TAKING ANOTHER HIGHER ENGLISH CLASS. HOWEVER, A STUDENT MAY NOT TAKE THREE ENGLISH CLASSES AT THE SAME TIME UNDER ANY CIRCUMSTANCE. THE EXCEPTION TO THIS IS 9TH GRADE ENGLISH. A STUDENT MUST PASS BOTH SEMESTERS OF 9TH GRADE ENGLISH IN ORDER TO MOVE TO 10TH GRADE ENGLISH. IF A STUDENT FAILS ONE SEMESTER OF 9TH GRADE ENGLISH, IT WILL BE AN ADMINISTRATIVE DECISION IF THE STUDENT WILL BE PERMITTED TO MOVE TO THE 10TH GRADE ENGLISH CURRICULUM.

ENGLISH 9 - REQUIRED, C40/AHD Course# 120H/121H - DOE# 1002

ENG 9
Grade: 9
Semesters: 2
Credits: 2

English 9, an integrated English course based on the Indiana Academic Standards for English/Language Arts in Grades 9-10, is a study of language, literature, composition, and oral communication, focusing on literature within an appropriate level of complexity for this grade band. Students use literary interpretation, analysis, comparisons, and evaluation to read and respond to representative works of historical or cultural significance in classic and contemporary literature balanced with nonfiction. Students write responses to literature, expository (informative), narrative, and argumentative/persuasive compositions, and sustained research assignments. Students deliver grade-appropriate oral presentations with attention to audience and purpose and access, analyze, and evaluate online information.

HON. ENGLISH 9 - REQUIRED, C40/AHD, WC (1.5) Course# 122H/123H - DOE# 1002
ENG 9
Grade: 9
Semesters: 2
Credits: 2
Prerequisite: By English Department placement only

English 9, an integrated English course based on the Indiana Academic Standards for English/Language Arts in Grades 9-10, is a study of language, literature, composition, and oral communication, focusing on literature within an appropriate level of complexity for this grade band. Students use literary interpretation, analysis, comparisons, and evaluation to read and respond to representative works of historical or cultural significance in classic and contemporary literature balanced with nonfiction. Students write responses to literature, expository (informative), narrative, and argumentative/persuasive compositions, and sustained research assignments. Students deliver grade-appropriate oral presentations with attention to audience and purpose and access, analyze, and evaluate online information. A grade of C- or better must be maintained in order to continue in this course.

ENGLISH 10 - REQUIRED, C40/AHD Course# 124H/125H - DOE# 1004
ENG 10
Grade: 10
Semesters: 2
Credits: 2

English 10, an integrated English course based on the Indiana Academic Standards for English/Language Arts in Grades 9- 10, is a study of language, literature, composition, and oral communication, focusing on literature with an appropriate level of complexity for this grade band. Students use literary interpretation, analysis, comparisons, and evaluation to read and respond to representative works of historical or cultural significance in classic and contemporary literature balanced with nonfiction. Students write responses to literature, expository (informative) and argumentative/persuasive compositions, and sustained research assignments. Students deliver grade-appropriate oral presentations with attention to audience and purpose and access, analyze, and evaluate online information.

HON. ENGLISH 10 - **REQUIRED, C40/AHD, WC (1.5)** Course# 126H/127H - DOE# 1004
ENG 10
Grade: 10
Semesters: 2
Credits: 2
Prerequisite: By department placement only

English 10, an integrated English course based on the Indiana Academic Standards for English/Language Arts in Grades 9- 10, is a study of language, literature, composition, and oral communication, focusing on literature with an appropriate level of complexity for this grade band. Students use literary interpretation, analysis, comparisons, and evaluation to read and respond to representative works of historical or cultural significance in classic and contemporary literature balanced with nonfiction. Students write responses to literature, expository (informative) and argumentative/persuasive compositions, and sustained research assignments. Students deliver grade-appropriate oral presentations with attention to audience and purpose and access, analyze, and evaluate online information. A grade of C- or better must be maintained in order to continue in this course.

ENGLISH 11 - REQUIRED, C40/AHD Course# 128H/129H - DOE# 1006
ENG 11
Grade: 11
Semesters: 2

Credits: 2

English 11, an integrated English course based on the Indiana Academic Standards for English/Language Arts in Grades 11-12, is a study of language, literature, composition, and oral communication focusing on literature with an appropriate level of complexity for this grade band. Students use literary interpretation, analysis, comparisons, and evaluation to read and respond to representative works of historical or cultural significance appropriate in classic and contemporary literature balanced with nonfiction. Students write narratives, responses to literature, academic essays (e.g. analytical, persuasive, expository, summary), and more sustained research assignments incorporating visual information in the form of pictures, graphs, charts and tables. Students write and deliver grade-appropriate multimedia presentations and access, analyze, and evaluate online information.

ENGLISH 111 - ELECTIVE/REQUIRED, C40/AHD, WC(3.0) Course# 130H/131H - DOE# 1056
LNG/COMP AP
Grade: 11
Semesters: 2
Credits: 2
Prerequisite: By English department placement only, college credit
AP English Language and Composition is a course based on the content established and copyrighted by the College Board. Students will take the College Board AP test administered toward the end of the course. The test will not affect the classroom grade, but can allow a student the opportunity to jump start their college career by earning college credits before leaving high school. The course is not intended to be used as a dual credit course. The course focuses on the development and revision of evidence-based analytic and argumentative writing and the rhetorical analysis of nonfiction texts. The course aligns to an introductory college-level rhetoric and writing curriculum, which requires students to develop evidence-based analytic and argumentative essays that proceed through several stages or drafts. Students evaluate, synthesize, and cite research to support their arguments. Throughout the course, students develop a personal style by making appropriate grammatical choices. Additionally, students read and analyze the rhetorical elements and their effects in non-fiction texts, including graphic images as forms of text, from many disciplines and historical periods. There is no prescribed sequence of study.

ENGLISH 12 - REQUIRED, C40/H Course# 134H/135H - DOE# 1008
ENG 12
Grade: 12
Semesters: 2
Credits: 2

English 12, an integrated English course based on the Indiana Academic Standards for English/Language Arts for Grades 11- 12, is a study of language, literature, composition, and oral communication focusing on an exploration of point of view or perspective across a wide variety of genres. Students use literary 167 Indiana Department of Education High School Course Titles and Descriptions interpretation, analysis, comparisons, and evaluation to read and respond to representative works of historical or cultural significance in classic and contemporary literature balanced with nonfiction. Students write narratives, responses to literature, academic essays (e.g. analytical, persuasive, expository, summary), and more sustained research assignments incorporating visual information in the form of pictures, graphs, charts, and tables. Students write and deliver grade-appropriate multimedia presentations and access, analyze, and evaluate online information.

ENGLISH 206 - ELECTIVE/REQUIRED, C40/AHD, WC (3.0) Course# 138H/139H - DOE# 1058
LIT/COMP AP
Grade: 12
Semesters: 2
Credits: 2
Prerequisite: By English department placement only,
AP English Literature and Composition is a course based on the content established and copyrighted by the College Board. Students will take the College Board AP test administered toward the end of the course. The test will not affect the classroom grade, but can allow a student the opportunity to jump start their college career by earning college credits before leaving high school. The course is not intended to be used as a dual credit course. The course engages students in the close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language to provide both meaning and pleasure. As they read, students consider a work's structure, style, and themes, as well as its use of figurative language, imagery, symbolism, and tone. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works.

STUDENT MEDIA (YEARBOOK) - ELECTIVE, C40/AHD Course#140/141 DOE#1086
STDNT MEDIA
Grade 10-11-12

Semesters: 2
Credits: 2
Prerequisite: Application Process

Student Media, a course based on the High School Journalism Standards and the Student Media Standards is the continuation of the study of Journalism. Students demonstrate their ability to do journalistic writing and design for high school media, including school newspapers, yearbooks, and a variety of other media formats. Students follow the ethical principles and legal boundaries that guide scholastic journalism. Students express themselves publicly with meaning and clarity for the purpose of informing, entertaining, or persuading. Students work on high school media staffs so that they may prepare themselves for career paths in journalism, communications, writing, or related fields. This course counts as a directed elective or elective for all diplomas. This course also fulfills the Fine Arts requirement for the Core 40 with Academic Honors. The nature of this course allows for successive semesters of instruction at an advanced level or in different media types where defined proficiencies and content standards are utilized.

MATHEMATICS DEPARTMENT

FRESHMEN WILL BE PLACED INTO THEIR FIRST MATHEMATICS CLASS. ALL STUDENTS MUST HAVE SUCCESSFULLY COMPLETED THEIR PRESENT MATHEMATICS COURSE BEFORE MOVING TO THE NEXT LEVEL.

ALGEBRA I - REQUIRED, C40/AHD Course# 304H/305H – DOE# 2520
ALG I
Grades: 9-10-11-12
Semesters: 2
Credits: 2
Prerequisite: None

Algebra I formalizes and extends the mathematics students learned in the middle grades. Algebra I is made up of six strands: Real Numbers and Expressions; Functions; Linear Equations, Inequalities, and Functions; Systems of Equations and Inequalities; Quadratic and Exponential Equations and Functions; and Data Analysis and Statistics. These critical areas deepen and extend understanding of linear and exponential relationships by contrasting them with each other and by applying linear models to data that exhibit a linear trend. Students will also engage in methods for analyzing, solving, and using quadratic functions. The eight Process Standards for Mathematics apply throughout the course. Together with the content standards, the Process Standards prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

ALGEBRA II - REQUIRED, C40/AHD Course# 310/311H **-** DOE# 2522
ALG II
Grade: 9-10-11-12
Semesters: 2
Credits: 2
Prerequisite: Algebra I

Algebra II builds on work with linear, quadratic, and exponential functions and allows for students to extend their repertoire of functions to include polynomial, rational, and radical functions. Students work closely with the expressions that define the functions, and continue to expand and hone their abilities to model situations and to solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms. Algebra II is made up of seven strands: Complex Numbers and Expressions; Functions; Systems of Equations; Quadratic Equations and Functions; Exponential & Logarithmic Equations and Functions; Polynomial, Rational, and Other Equations and Functions; and Data Analysis, Statistics, and Probability. The eight Process Standards for Mathematics apply throughout the course. Together with the content standards, the Process Standards prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

HON. ALGEBRA II - ELECTIVE/REQUIRE, WC (1.5), C40/AHD Course# 312H/313H **-** DOE# 2522
ALG II
Grade: 9-10-11
Semesters: 2
Credits: 2
Prerequisite: By department placement only

This course includes the same content as Algebra II which includes the expansion of Algebra I topics. It also provides for further development of the concept of functions. Topics include the theorems and algorithms of Algebra, polynomials and polynomial functions, rational exponents, the complex numbers, sequences and series, and the properties and graphs of conic sections. The difference will be an exploration in greater depth of all content before mentioned. A grade of C- or better must be maintained in order to continue in this course.

GEOMETRY - REQUIRED, C40/AHD Course# 306H/307H - DOE# 2532
GEOM
Grade: 9-10-11-12
Semesters: 2
Credits: 2
Prerequisite: Successful completion of Algebra I

Geometry formalizes and extends students' geometric experiences from the middle grades. Students explore more complex geometric situations and deepen their explanations of geometric relationships, moving towards formal mathematical arguments. Seven critical areas comprise the Geometry course: Logic and Proofs; Points, Lines, Angles, and Planes; Triangles; Quadrilaterals and Other Polygons; Circles; Transformations; and Three-dimensional Solids. The eight Process Standards for Mathematics apply throughout the course. Together with the content standards, the Process Standards prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

HON. GEOMETRY - ELECTIVE/REQUIRED, WC (1.5), C40/AHD Course# 308H/309H - DOE# 2532
GEOM
Grade: 9-10
Semesters: 2
Credits: 2
Prerequisite: By department placement only, may be taken concurrently with Honors Algebra II

This course includes the same content as Geometry, which includes a deeper understanding of shapes and their properties, deductive and inductive reasoning, the study of angles, lines, planes, congruent and similar triangles, trigonometric ratios, polygons, circles, spatial drawings and relationships, and proof and logic. The difference will be an exploration in greater depth of all content before mentioned, with more student-created proofs required. A grade of C- or better must be maintained in order to continue in this course.

PRE-CALCULUS - ELECTIVE, C40/AHD Course# 314H/315H DOE# 2564
PRECAL AL
Grade: 10-11-12
Semesters: 2
Credits: 2
Prerequisite: Algebra II

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 standards, the Process Standards prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

PRE-CALCULUS: Algebra - ELECTIVE, WC(3.0), C40/AHD, DC Course# 316H DOE #2544
ADV MTH CC AL
Grade: 10-11-12
Semesters: 1
Credits: 1, **Dual Credit through IVTCC, MATH 136, Fall Only**
Prerequisite: Algebra II and Department Placement

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

Pre-Calculus: Trigonometry - ELECTIVE, WC(3.0), C40/AHD, DC Course# 317H DOE #2544
ADV MTH CC TRIG
Grade: 10-11-12
Semesters: 1
Credits: 1, **Dual Credit through IVTCC, MATH 137, Spring Only**
Prerequisite: Algebra II and Department Placement

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

CALCULUS- ELECTIVE, WC(3.0), C40/AHD, (WC3.0), DC Course# 318H/319H - DOE# 2544
ADV MTH CC CALC
Grade: 11-12
Semesters: 2
Credits: 2, **Dual Credit through IVTCC, MATH 201**
Prerequisite: Honors Pre-Calculus or Department Placement

The content of Calculus has been established by IVY TECH Community College The topics include limits, continuity, derivatives, definite integrals, and techniques of integration involving rational, Trigonometric, logarithmic, and exponential functions. The course also includes applications of the derivative, the integral, and theory of Calculus.

PERFORMING ARTS DEPARTMENT

ADVANCED CONCERT BAND - ELECTIVE, **C40/AHD** Course# 266H/267H - DOE# 4170
ADV BAND
Grade: 9-10-11-12
Semesters: 2
Credits: 2 - May be taken for successive semesters

The class is open to all freshmen, sophomores, juniors, and seniors. The band program is open to all students who have successfully completed intermediate level instrumental music instruction. There is no organized beginning program available in the High School program. Band is a multi-phased program including summer fundamentals, band camp, fall competitive marching band, pep band, concert band and solo ensemble opportunities. Competitive marching band (during the fall only) requires attendance at preschool rehearsals, some evenings, and all scheduled performances. Special considerations are arranged to enable athletes to participate in sports and band. A complete schedule of practices and performances is published in the summer detailing all required practices and performances.
A wide range of musical literature is used. Emphasis is placed on the development of technique, tone, intonation, musical expression, and general musicianship. Music representing a wide array of musical styles and periods is used to help achieve the basic elements of musicianship. Students entering the Maconaquah School Corporation for the first time are advised to make an appointment with the Band Director for an interview.

DANCE PERFORMANCE - ELECTIVE, **C40/AHD** Course#268H/269H - DOE#4146
DNC PERF
Grade: 9-10-11-12
Semesters: 1-2
Credits: 1 per semester, 1 credit per semester, May be taken for successive semesters
Prerequisite: Audition and permission of director

Dance Performance is based on the Indiana Academic Standards for Dance. Sequential and systematic learning experiences are provided in the specific genre offered, whether it is Ballet, Modern, Jazz, or Ethnic-Folk. Activities utilize a wide variety of materials and experiences and are designed to develop techniques appropriate within the genre, including individual and group instruction in performance repertoire and skills. Students develop the ability to express their thoughts, perceptions, feelings, and images through movement. The performance class provides opportunities for students to experience degrees of physical prowess, technique, flexibility, and the study of dance performance as an artistic discipline and as a form of artistic communication. Students describe, analyze, interpret, and judge live and recorded dance performances of professional dancers and companies in the genre. They also become aware of the career opportunities in dance. Counts as a directed elective or elective for all diplomas. Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma. A non-licensed dance instructor may be contracted to provide instruction with a licensed Fine Arts teacher serving as the teacher of record,laboratory course. This course is taken concurrently with Advanced Band.

INTERMEDIATE CHORUS - ELECTIVE, **C40/AHD** Course# 270H/271H - DOE# 4186
IN CHOR
Grade: 9-10-11-12
Semesters: 2
Credits: 2 - 1 credit per semester - May be taken for successive semesters

This course provides students with opportunities to develop musicianship and specific performance skills through ensemble and solo singing. The chorus may be composed of: (1) male chorus (2) female chorus (3) mixed chorus (4) any combination thereof. Activities create the development of quality repertoire in the diverse styles of choral literature that is appropriate in difficulty and range for the students. Instruction is designed to enable students to connect, examine, imagine, define, try, extend, refine, and integrate music study into other subject areas. Students develop the ability to understand and convey the composer's intent in order to connect the performer with the audience. Students also have the opportunity to experience live performances by professionals during and outside of the school day. A limited amount of time, outside of the school day, may be scheduled for dress rehearsals and performances. A limited number of public performances may serve as a culmination of daily rehearsal and music goals. Students must participate in performance opportunities outside of the school day that support and extend learning in the classroom.

ADVANCED CHORUS - ELECTIVE, **C40/AHD** Course#264H/265H - DOE#4188
ADV COR
Grade: 9-10-11-12
Semesters: 2
Credits: 2, 1 credit per semester - May be taken for successive semesters
Prerequisite: Audition and permission of director

Advanced Chorus is based on the Indiana Academic Standards for High School Choral Music. Students taking Advanced Chorus develop musicianship and specific performance skills through ensemble and solo singing. This class includes the study of quality repertoire in the diverse styles of choral literature appropriate in difficulty and range for the students. Chorus classes provide opportunities for performing, creating, and responding to music. 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.

VOCAL JAZZ - ELECTIVE, **C40/AHD** Course# 272H/273H - DOE# 4184
VOC JAZZ
Grade: 9-10-11-12
Semesters: 2
Credits: 2- 1 credit per semester - May be taken for successive semesters
Prerequisite: Audition and permission of director

This course is open to students who wish to participate in the production of Swing Choir performances. All production aspects are learned, rehearsed, and perfected in class; then applied during live performances. The ensemble will perform various styles of music, with a strong emphasis in the popular idiom. The ensemble will perform alone, with the chorus, and ISSMA Contests.

THEATER ARTS I - ELECTIVE, **C40/AHD** Course # 284H - DOE# 4242
THTR ARTS
Grade: 9-10-11-12
Semesters: 1
Credits: 1

This is a beginning course available to all students, designed to introduce them to both the acting and technical sides of theater. Students read plays, perform in class, and help build sets used in the after school program. Students are encouraged to participate in the extra-curricular theater program offered after school. All students will participate for 1 to 3 programs as a technician for events presented in the auditorium such as choir and band concerts. The number required depends on the number of students enrolled in this class. This course counts as a directed elective or elective for all diplomas and fulfills a fine arts requirement.

THEATER ARTS II - ELECTIVE, **C40/AHD** Course # 285H - DOE # 4242
THTR ARTS
Grades 9-10-11-12
Semesters: 1
Credits: 1
Prerequisite: Successful completion of Theatre Arts I

Students will build upon the skills acquired in Theatre Arts I. Students will receive greater training in acting skills and are encouraged to audition for after school productions. Students are also encouraged to view professional, amateur and other high school productions to increase analysis skills necessary to further the student's own acting skills. All students will read a play, watch a live performance, and will participate as a technician for 1 to 3 auditorium events such as choir and band concerts. This course counts as a directed elective or elective for all diplomas and fulfills a fine arts requirement.

ADVANCED THEATER ARTS I & II - ELECTIVE, **C40/AHD** Course # 286H/287 DOE # 4240
ADV THTR
Grade: 10-11-12
Semesters: 1 or 2
Credits: 1 or 2
Prerequisite: Successful completion of Theatre Arts 1 and II

Only the serious theater student should consider taking this advanced course that develops acting and technical skills more thoroughly. In this class, a greater emphasis will be placed on performance skills than in the beginning Theatre Arts classes. If the enrollment is small, these students will meet at the same time and with the beginning Theatre Arts class. All students will read plays, watch live performances, and will participate in 1 to 3 programs as a technician for auditorium events such as choir and band concerts.

TECHNICAL THEATER I - ELECTIVE, **C40/AHD** Course# 280H - DOE# 4244
TECH THTR
Grade: 9-10-11-12
Semesters: 1
Credits: 1

This is a beginning course designed to introduce students to the technical side of theatre. Students work both in the classroom and on the stage operating stage equipment, and presenting technical work. Areas covered include such things as: set, costume and prop design, publicity, and set construction. All students will read a play, watch a live performance, and participate in 1 to 3

programs as a technician for auditorium events such as choir and band concerts. This course counts as a directed elective or elective for all diplomas and fulfills a fine arts requirement.

TECHNICAL THEATER II - ELECTIVE, **C40/AHD** Course #281H - DOE # 4244
TCH THTR
Grade 9-10-11-12
Semesters: 1
Credits 1
Prerequisite: Successful completion of Technical Theatre I

Students build upon the skills acquired in Technical Theatre I. Students in this class will receive more in depth training on the light and sound board and in design. All students will read plays, watch live performances, and participate in 1 to 3 programs as a technician for auditorium events such as choir and band concerts. This course counts as a directed elective or elective for all diplomas and fulfills a fine arts requirement.

ADVANCED TECHNICAL THEATER I & II - ELECTIVE, **C40/AHD** Course #282H/283H DOE # 4252
ADV TECH TH
Grade: 10-11-12
Semesters: 1 or 2
Credits: 1 or 2
Prerequisite: Successful completion of Technical Theatre 1 & 2 and instructor approval

Only the serious theater student should consider taking this advanced course that develops technical skills more thoroughly. In this class, the emphasis will be placed on complex lighting, sound, set construction and stage management skills rather than the basic skills covered in the beginning Technical Theatre classes. All students will be required to participate in leadership roles for performances held in the auditorium. If enrollment is small, these students will meet at the same time and with the beginning Technical Theatre class and assist the beginning students learn skills. The students will also create useful additions and improvements to the theater areas. All students will read plays, watch live performances, and participate in 1 to 3 programs as a technician for auditorium events such as choir and band concerts. This course counts as a directed elective or elective for all diplomas and fulfills a fine arts requirement.

THEATER PRODUCTION I & II - ELECTIVE, **C40/AHD** Course #288H/289H DOE # 4248
THTR PROD
Grade: 10-11-12
Credits: 1 semester course, 1 credit per semester
May be taken for successive semesters

Students enrolled in Theatre Production take on responsibilities associated with rehearsing and presenting a fully mounted theater production. They read and analyze plays; to conceive and realize a design for a production, including set, lighting, sound and costumes; rehearse and perform roles in a production; and direct or serve as assistant director for a production. These activities incorporate elements of theater history, culture, analysis, response, creative process, and integrated studies. Additionally, students investigate a theater arts career then develop a plan for potential employment or further education through audition, interview, or presentation of a portfolio. Students also attend and critique theatrical productions. All Students will read plays and participate in 2 to 3 programs as a technician for auditorium events such as choir and band concerts. This course counts as a Directed Elective or Elective for all diplomas and fulfills a fine arts requirement.

PHYSICAL EDUCATION DEPARTMENT

STUDENTS WILL NOT BE PERMITTED TO TAKE MORE THAN ONE PE CLASS PER SEMESTER/CAN NOT EXCEED 6 CREDITS THROUGH GRADES 10-12.

PHYSICAL EDUCATION - REQUIRED, **C40/AHD** Course# 100H/101H and 102H-103 - DOE# 3542/3544
PHYS ED I / II
Grade: 8

Semesters: 2

Credits: 1

The class emphasizes the elevation and maintenance of physical fitness, the appreciation of athletic games, the knowledge of various organized physical activities, and the exposure of needed physical skills. The student receives experiences of a variety of physical activities which enhance his/her physical well-being. Carry over value is emphasized.

P.E. / ELECTIVE PHYSICAL EDUCATION - ELECTIVE Course# 106H/107H - DOE# 3560

Grade:9- 10 -11-12
Semesters: 1

Credits: 1

This course will target students who wish to improve their knowledge of life-long activities, and improve their current level of physical fitness. Life activities will be taught in units of 4 to 7 school days. Physical fitness will be incorporated accordingly. Students will be asked to complete “out of school” assignments involving critical thinking and analysis of magazine and/or newspaper articles. The nature of the articles will be health, fitness, sport, or nutritional related. Students will be expected to dress out daily.

P.E. / BEGINNING WEIGHT TRAINING - ELECTIVE Course# 104H/105H - DOE# 3560

Grade:9
Semesters: 1
Credits: 1

Free weight and circuit training programs will be implemented to benefit the students’ needs. Programs will be designed for lower weights and higher repetitions. Participation in athletics is not a requirement for this class.

P.E. / ADVANCED WEIGHT TRAINING - ELECTIVE Course#113/113H DOE# 3560

Grade: 9-10-11-12
Semesters: 1
Credits: 1
Prerequisite: BeginningWeight Training

This class is designed for athletes participating in a school sponsored sport. Student athletes will have an intense three day weight training program involving the core lifts and auxiliary lifts specific to their sport(s). There will be one day of speed and agility training. This would include tasks designed to improve the development of fast-twitch muscle fibers. Examples are, but not limited to, plyometrics, running mechanics, running sled, dot drill, ladder, etc. There will be one day skills. These drills would be provided by the coaches of their respective sport. Students will be required to set personal goals, track progress, and submit a report to their coaches at the end of the month.

HEALTH & WELLNESS - REQUIRED, C40/AHD Course# 108H - DOE# 3506

Grade: 8-9-10
Semesters: 1

Credits: 1

Health education is a learning experience which furnishes information concerning proper decisions about the student and world around them. The class acquaints the student with proper guidelines concerning his physical, mental, and social well-being. Discussion of health topics and the revelation of students’ attitudes toward controversial attitudes are stressed. This class emphasizes decision making by the student and the social, economic, and psychological consequences of his decisions now and the ones he will encounter throughout his lifetime.

SCIENCE DEPARTMENT

BIOLOGY I - REQUIRED, C40/AHD Course# 200H/201H - DOE# 3024

BIO I
Grade: 9

Semesters: 2
Credits: 2
Prerequisites: None

This is a required, two semester laboratory course. It includes the study of the structures and functions of living organisms and their interactions with the environment. Other topics that will be covered include the study of life at the cellular, chemical and molecular level, genetics, cellular reproduction, ecology, evolution, and metabolism. Students are required to take a state mandated standardized test.

BIOLOGY I HONORS - REQUIRED/ELECTIVE, C40/AHD, WC(1.5) Course# 202H/203H - DOE# 3024
BIO I
Grade: 9
Semesters: 2
Credits: 2
Prerequisite: By department placement only
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This is a required, two semester laboratory course. It includes the study of the structures and functions of living organisms and their interactions with their environment. Other topics that will be covered include the study of life at the cellular, chemical, and molecular level, genetics, cellular reproduction, ecology, evolution, and metabolism. Honors Biology I will progress at a faster pace and topics will be covered in greater depth. A grade of C- or better must be maintained in order to continue in this course. Students are required to take a state mandated standardized test.

PRINCIPLES OF HEALTHCARE - ELECTIVE, C40/AHD, WC(3.0) Course# 222/222H - DOE# 7168
PRIN HLCR
Grade: 11, 12
Semesters: 2, Dual Credit through IU-Kokomo, IUK L230 - Healthcare Delivery Systems
Prerequisite: Concurrent enrollment in MED TERMS

Principles of Healthcare content includes skills common to specific health career topics such as patient nursing care, dental care, animal care, medical laboratory, public health, and an introduction to healthcare systems. Lab experiences are organized and planned around the activities associated with the student’s career objectives.

MEDICAL TERMINOLOGY - ELECTIVE, C40/AHD, WC(3.0) Course# 223/223H - DOE# 5274
MED TERMS
Grade: 11, 12
Semesters: 2, Dual Credit through IU-Kokomo, IUK HLTM 195 - Medical Terminology
Prerequisite: Concurrent enrollment in PRIN HLCR

Medical Terminology prepares students with language skills necessary for effective, independent use of health and medical reference materials. It includes the study of health and medical abbreviations, symbols, and Greek and Latin word part meanings, all taught within the context of body systems. This course builds skills in pronouncing, spelling, and defining new words encountered in verbal and written information in the healthcare industry. Students have the opportunity to acquire essential skills for accurate and logical communication, and interpretation of medical records. Emphasis is on forming a foundation of a medical vocabulary including; appropriate and accurate meaning, spelling, and pronunciation of medical terms, and abbreviations, signs, and symbols.

INTEGRATED CHEMISTRY-PHYSICS - REQUIRED, C40/AHD Course# 210H/211H - DOE# 3108
ICP
Grade: 10-11
Semesters: 2
Credits: 2
Prerequisites: Completion of Algebra I or Concurrent Enrollment in Algebra I

Integrated Chemistry and Physics incorporates high school Disciplinary Core Ideas, Science and Engineering Practices, and Crosscutting Concepts to help students gain a three-dimensional understanding of Chemistry and Physics topics. Disciplinary Core Ideas for this course include Matter and its Interactions, Forces, Energy, and Waves and their Applications in Technologies for Information Transfer. Instruction focuses on the observation of phenomena to develop an understanding of how scientific knowledge is acquired.

CHEMISTRY - REQUIRED/ELECTIVE, C40/AHD Course# 212H/213H - DOE# 3064
CHEM
Grade: 10-11-12
Semesters: 2
Credits: 2
Prerequisites: Biology I & C- or better in Algebra I

Chemistry I is a two semester course designed to acquaint students with the basic principles of chemistry. This course allows students to synthesize useful models of the structure of matter and the mechanisms of its interactions through laboratory investigations of matter and its chemical reactions. The laboratory is used to supplement the classroom phase with emphasis on chemistry safety. The basic chemistry principles in each of the following areas are the main topics of study: Elements, Compounds, Reactions, Energy Changes, Structures, Chemical Properties, Stoichiometry, Solutions, and Gas Laws. The course is primarily designed and highly recommended for college bound students. A scientific calculator is required.

AP CHEMISTRY- ELECTIVE, C40/AHD, WC(3.0) ***Currently Not Offered*** Course# 216H/217H - DOE# 3060
CHEM AP
Grades: 11-12
Semesters: 2
Credits: 2, College credit determined by AP Exam
Prerequisites: Successful completion of Chemistry I, Algebra II, Pre-Calculus with a minimum grade of C- or better in both AND Instructor Approval

AP Chemistry is a course based on the content established and copyrighted by the College Board. The course is not intended to be used as a dual credit course. The content includes: (1) structure of matter: atomic theory and structure, chemical bonding, molecular models, nuclear chemistry; (2) states of matter: gases, liquids and solids, solutions; and (3) reactions: reaction types, stoichiometry, equilibrium, kinetics and thermodynamics. Counts as a Science Course for all diplomas and qualifies as a quantitative reasoning course.

HON PHYSICS I - ELECTIVE, C40/AHD Course# 218H/219H - DOE# 3084
PHYS I
Grade: 11-12
Semesters: 2
Credits: 2
Prerequisites: Chemistry I (C- or better), Geometry (C-- or better), Concurrent Enrollment Algebra II

This course is to be a general high school physics course. The primary goal of the course will be to synthesize the fundamental concepts of mechanics, heat, kinetic theory, thermodynamics, waves and optics, electricity and magnetism, and modern physics with the history of physics and technological developments. The laboratory part of the course will emphasize the exploration of problem-solving models, theory development and physical laws. Students should have a good background in algebra and some experience with basic trigonometric functions. A scientific calculator is required.

AP PHYSICS I-Algebra Based- ELECTIVE, C40/AHD, WC (3.0) Course # 220/221-DOE# 3080
PHYS 1 AP
Grade: 11-12
Semesters: 2
Credits: 2
Prerequisites: Physics I (B or better), Geometry + Algebra II (C or better), Enrollment in Precalculus

AP Physics I, Algebra based is a course based on the content established and copyrighted by the College Board. The course is not intended to be used as a dual credit course. AP Physics 1: Algebra-based is equivalent to a first-semester college course in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; mechanical waves and sound. It will also introduce electric circuits. Counts as a Science Course for all diplomas, and qualifies as a quantitative reasoning course

Agriculture Deparment Course (Fullfilling Science Credit, See Page 5)

ANIMAL SCIENCE- ELECTIVE, Course# 456H/459H - DOE# 5008
ADVANCED LIFE SCIENCE: ANIMALS - ELECTIVE, Course# 226H/227H - DOE# 5070
PLANT & SOIL SCIENCE- ELECTIVE, Course# 462/462H- DOE# 5170
ADVANCED LIFE SCIENCE: PLANTS AND SOILS - ELECTIVE, Course#460H/461H - DOE#5074

SOCIAL STUDIES DEPARTMENT

WORLD HISTORY/CIVILIZATION - REQUIRED, C40/AHD Course # 235H/236H DOE# 1548
WLD HST/CVL
Grade: 9-10-11-12
Semesters: 2
Credits: 2

World History and Civilization is a survey course for a study of selected world cultures, past and present. Students will compare and analyze patterns of culture, emphasizing both the diversity and commonality of human experience and behavior. The course will emphasize the interaction of cultures with the natural environment, as well as the connections among civilization from earliest times to the present. The course will stress the hypothesis that man's ideas form the most important force in human history. Current problems and their solutions, examined in the light of history, are also emphasized.

INDIANA STUDIES - ELECTIVE C40/AHD Course# 259 DOE# 1518
IN STUDIES
Grade Level: 10 -11- 12
Semesters: 1
Credits: 1

Indiana Studies is an integrated course that compares and contrasts state and national developments in the areas of politics, economics, history, and culture. The course uses Indiana history as a basis for understanding current policies, practices, and state legislative procedures. It also includes the study of state and national constitutions from a historical perspective and as a current foundation of government. Examination of individual leaders and their roles in a democratic society will be included and student 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.

ETHNIC STUDIES - ELECTIVE, C40/AHD Course# 258 DOE# 1516
ETH STUDIES
Grade Level: 10-11-12
Semesters: 1
Credits: 1

Ethnic Studies provides opportunities to broaden students' perspectives concerning lifestyles and cultural patterns of ethnic groups in the United States. This course will either focus on a particular ethnic group or groups, or use a comparative approach to the study of patterns of cultural development, immigration, and assimilation, as well as the contributions of specific ethnic or cultural groups. The course may also include analysis of the political impact of ethnic diversity in the United States.

UNITED STATES HISTORY - REQUIRED, C40/AHD Course # 237H/238H - DOE# 1542

US HIST
Grade: 11
Semesters: 2
Credits: 2

This course provides students with studies of specific historical eras, events, or concepts through the use of historical novels, along with primary and secondary sources. The course focuses on one or more themes related to United States History during the last 200 years.

ACP AMER. HISTORY - REQUIRED/ELECTIVE, C40/AHD, WC (3.0) Course# 245H/246H DOE# 1574

ADV SS CC HIST
Grade: 11
Semesters: 2
Credits: 2 - **Dual Credit through IU BLOOMINGTON - H105/H106**
Prerequisites: GPA Greater 2.5/4.0 scale or teacher recommendation
ACP American History is a dual credit course and college credit is through Indiana University. It is taught in conjunction with the AP US History course and has a similar curriculum. A student must earn a C- or better average in the class in order to earn college credit for the course.

CURRENT PROBLEMS, ISSUES, AND EVENTS - ELECTIVE, C40/AHD Course# 248 DOE# 1512

CPIE
Grade Level:11-12
Semesters: 1
Credits: 1

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. Community service programs and internships within the community may be included.

UNITED STATES GOVERNMENT - REQUIRED, C40/AHD Course # 250H DOE# 1540

US GOVT
Grade: 12
Semesters: 1
Credits: 1

United States government provides a framework for understanding the nature and importance of responsible civic participation and for learning the rights and responsibilities of individuals in a constitutional democracy. The course enables students to explore the origins and evolution of political philosophies into our political and legal systems. Constitutional structure and the processes of the legislative, executive, and judicial branches of the various levels of government are examined. Students learn to analyze the roles of individuals and groups in the political process by identifying and analyzing political issues. Students should understand their ability to influence policies and decisions as individuals and in groups.

ECONOMICS - REQUIRED, C40/AHD Course # 253H DOE# 1514

ECON
Grade: 12
Semesters: 1
Credits: 1

Economics includes a study of the allocation of scarce resources and their alternative uses for satisfying human wants. This course examines basic models of decision making at various levels and in different areas including: (1) decisions made as a consumer, producer, saver, investor, and voter; (2) business decisions to maximize profits; and (3) public policy decisions in specific markets dealing with output and prices in the national economy.

ECONOMICS 101, DUAL CREDIT- REQUIRED/ELECTIVE, C40/AHD. WC (3.0) Course # 254 DOE# 1574
ADV SS CC ECON
Grade Level: 12
Semesters: 1
Credits: 1, **Dual Credit through IVTCC, ECON 101 (Economic Fundamentals), Fall/Spring Only**
Prerequisites: B- GPA or better or recommendation of teacher.

Economic Dual Credit is a course based on the content established by Ivy Tech Community College. The course gives students a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the economics system. Topics include: (1) basic economic concepts, (2) the nature and functions of product markets, (3) factor markets, and (4) market failure and the role of the government.

VISUAL ART DEPARTMENT

INTRODUCTION TO TWO-DIMENSIONAL DESIGN - ELECTIVE, C40/AHD Course # 475H DOE# 4000
Grade Level: 9-10-11
Semesters: 1
Credits: 1
Intro 2-D Art is an introductory studio course designed to be accessible for artists of all skill levels. The course has two goals: 1) to introduce the student to various 2-dimensional media and techniques such as painting, photography, graphite, charcoal, pastel, oil pastel, colored pencils, etc., and 2) to cover basic art content knowledge such as the elements of art and the principles of design, composition, art criticism, and the major art movements in history. Note: All student artwork will be held by the department until the end of the semester unless obtained for contest purposes.

INTRODUCTION TO THREE-DIMENSIONAL ART - ELECTIVE, C40/AHD Course # 476H DOE# 4002
Grade Level: 9-10-11
Semesters: 1
Credits: 1
Intro to 3-D Art is an introductory studio course designed to be accessible for artists at all skill levels. The course has two goals: 1) to introduce the student to various 3-dimensional media and techniques such as ceramics, wire sculpture, papier mache, plaster, etc., and 2) to cover basic art content knowledge such as the elements of art and the principles of design, composition, art criticism, and the major art movements in history. Note: All student artwork will be held by the department until the end of the semester unless obtained for contest purposes.

DRAWING I - ELECTIVE, C40/AHD Course #479H DOE# 4060
Grade Level: 9-10-11-12
Semester: 1
Credits: 1
Prerequisite: Successful completion of 2D art
Drawing is a beginner level studio course designed for students interested in exploring various drawing media and techniques. Students will engage in exercises and projects similar to a college level drawing course with the specific goal of improving their drawing technique. They will also engage in a more in depth exploration of aesthetics and drawing throughout history and various cultures. Note: All student artwork will be held by the department until the end of the semester unless obtained for contest purposes.

DRAWING II - ELECTIVE, C40/AHD Course # 480H DOE # 4060
Grade Level: 10-11-12
Semester: 1

Credits: 1
Prerequisite: Must have completed Drawing I. Advanced level studio course.
Drawing II is an extension of Drawing I designed for those who wish to pursue drawing seriously either as a hobby or professionally. The student has already been instructed in the techniques of drawing and is now invited to develop their own style and voice as an artist. Students will propose their own projects for approval with laid out project view and class critique dates. Students are also expected to participate in an end of the year student art show by showing their work. Note: All student artwork will be held by the department until the end of the semester unless obtained for contest purposes

CERAMICS I - ELECTIVE, C40/AHD Course # 477H - DOE# 4040
Grade Level: 10-11-12
Semesters: 1
Credits: 1
Prerequisite: Successful completion of 2D Art or 3D Art
Ceramics is a course based on the Indiana Academic Standards for Visual Art. Students in ceramics engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production and lead to the creation of portfolio quality works. Students create works of art in clay utilizing the processes of hand building, molds, wheel throwing, slip and glaze techniques, and the firing processes. They reflect upon and refine their work; explore cultural and historical connections; analyze, interpret, theorize, and make informed judgments about artwork and the nature of art; relate art to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills. Students utilize the resources of art museums, galleries, and studios, and identify art-related careers.

CERAMICS II - ELECTIVE, C40/AHD Course # 478H - DOE# 4040
Grade Level: 10-11-12
Semesters: 1
Credits: 1
Prerequisites: Must have completed Ceramics I. Advanced level studio course.
Ceramics II is an extension of Ceramics I designed for those who wish to pursue ceramics serious either as a hobby or professionally. The student has already been instructed in the techniques of ceramics and is now invited to develop his own style and voice as an artist. Students will propose their own projects for approval with laid out project review and class critique dates. Students are also expected to participate in an end of the year student art show by showing their work. Note: All student artwork will be held by the department until the end of the semester unless obtained for contest purposes.

PAINTING I - ELECTIVE, C40/AHD Course #481H DOE# 4064
ELECTIVE - Core 40/AHD Course
Grade Level: 10-11-12
Semester: 1
Credits: 1
Prerequisite: Successful completion of Draw II
Painting is an intro level course in which students learn basic painting technique, color theory, the elements of art and principles of design, composition, art criticism, and the major art movements in history. Students will explore painting techniques and media by engaging in exercises and projects similar to a college level painting course with the specific goal of improving their painting technique. They will also engage in a more in depth exploration of aesthetics and drawing throughout history and various cultures. Note: All student artwork will be held by the department until the end of the semester unless obtained for contest purposes.

PAINTING II - ELECTIVE, C40/AHD Course #482H DOE# 4064
Grade Level: 10-11-12
Semester: 1
Credits: 1
Prerequisite: Must have Painting I. Advanced level studio course.
Painting II is an extension of Painting I designed for those who wish to pursue painting seriously either as a hobby or professionally. The student has already been instructed in the techniques of painting and is now invited to develop their own style and voice as an artist. Students will propose their own projects for approval with laid out project review and class critique dates.

Students are also expected to participate in an end of the year student art show by showing their work. Note: All student artwork will be held by the department until the end of the semester unless obtained for contest purposes.

PORTFOLIO I and II - ELECTIVE, C40/AHD Course# 483H/484H DOE# 4086
Grade: 12
Semester: 2
Credits: 2
Prerequisites: Must have completed 3 or more art classes and an art teacher recommendation. Must have completed a minimum of Ceramics I, Drawing I, or Painting I (in addition to their prerequisites). Advanced level studio course. Art teacher recommendation required.
Portfolio class is a two-semester commitment designed for seniors who are considering visual art professions. The student is expected to further develop their own style and voice as an artist by developing a portfolio of their work and artist's statement. Students will propose projects, participate in project reviews and class critiques, engage in regular investigative art journaling, and participate in an end of the year student art show. Note: All student artwork will be held by the department until the end of the semester unless obtained for contest purposes.

CAREER INTERNSHIP PROGRAM

Work Based Learning Capstone, Multiple Pathways (WBL) - ELECTIVE, C40/AHD Course #514H-515H DOE# 5974
Grade: 12
Semesters: 1 or 2
Credits: 3 per semester

Work-based Learning Capstone is a stand-alone course that prepares students for college and career. Work-Based Learning means sustained interactions with industry or community professionals in real workplace settings, to the extent practicable, or simulated environments at an educational institution that foster in-depth, first hand engagement with the tasks required of a given career field, that are aligned to curriculum and instruction. Work-based Learning Capstone experiences occur in workplaces and involve an employer assigning a student meaningful job tasks to develop his or her skills, knowledge, and readiness for work. A clear partnership agreement and training plan is developed by the student, teacher, and workplace mentor/supervisor to guide the student's work-based experiences and assist in evaluating achievement and performance. Related Instruction, shall be organized and planned around the activities associated with the student's individual job and career objectives in a pathway; and shall be taught during the same semester the student is participating in the work-based experience. For a student to become employable, the related instruction should cover: (a) employability skills, and (b) specific occupational competencies.

WORLD LANGUAGE DEPARTMENT

FRENCH I - ELECTIVE, C40/AHD ***Currently Unavailable*** Course# 400H/401H - DOE# 2020
Grade: 9-10-11-12
Semesters: 2
Credits: 2
In French I, students will learn basic communication skills useful in everyday life and travel. They will interpret written and spoken language appropriate for level one, including digital media and culturally authentic resources (websites, videos, music, articles, ads, etc.). Students will begin to learn about the cultures of the many French-speaking countries and compare them to their own culture. A study of the city of Paris will be included. Additionally, students will correspond with native speakers at a school in France.

FRENCH II - ELECTIVE, C40/AHD Course# 402H/403H - DOE# 2022
Grade:9- 10-11-12
Semesters: 2
Credits: 2
Prerequisite: French I
In French II, students will expand upon the communication skills acquired in level one through listening, speaking reading, and writing activities. They will interpret written and spoken language appropriate for level two, including digital media and culturally

authentic resources (websites, videos, music, articles, ads, etc.). More advanced grammar structures will be presented. Students will continue to investigate the cultures of French-speaking countries, including francophone Canada and the castles of France. Students will correspond with native speakers at a school in France.

FRENCH III - ELECTIVE, C40/AHD Course# 404H/405H - DOE# 2024
Grade: 11-12
Semesters: 2
Credits: 2
Prerequisite: “C-” or better in French II
In French III, students will develop more advanced interpersonal communication skills. They will interpret written and spoken language appropriate for level three, including digital media and culturally authentic resources (websites, videos, music, articles, ads, etc.). Students will expand their knowledge of language and culture through literature excerpts and film studies, such as *Cyrano de Bergerac* and *Notre Dame de Paris*. Students will continue to explore the francophone world, including the regions of France and francophone Africa. Students will also communicate with their pen pals at a school in France.

FRENCH IV - ELECTIVE, C40/AHD Course# 406H/407H - DOE# 2026
Grade: 12
Semesters: 2
Credits: 2
Prerequisite: “C-” or better in French III

Students in French IV will refine their communication skills through listening, speaking, reading, and writing activities. Advanced grammar topics will be practiced. Students will explore elements of French history and discuss current issues. They will read novels such as *Le Petit Nicolas* and *Le Petit Prince.* Digital media and culturally authentic resources will also be used. Students will deepen their cultural understanding of French-speaking countries through research and correspondence with native speakers.

FRENCH V - ELECTIVE, C40/AHD Course# 416/416H - DOE# 2028
Grade: 10-11-12
Semesters: 2
Credits: 2
Prerequisite: “C-” or better in French IV

French V, a course based on Indiana’s Academic Standards for World Languages, provides opportunities for students to interact and exchange information in culturally and socially authentic and/or simulated situations to demonstrate integration of language skills with understanding of French-speaking culture. This course emphasizes the use of appropriate formats, varied vocabulary and complex language structures within student communication, both oral and written, as well as the opportunity to produce and present creative material using the language. Additionally, students will continue to develop an understanding of French-speaking culture through investigating the origin and impact of significant events and contributions unique to the target culture, comparing and contrasting elements that shape cultural identity in the target culture and the student’s own culture, and explaining how the target language and culture have impacted other communities. This course further emphasizes the integration of concepts and skills from other content areas with the target language and cultural understanding, as well as the exploration of community resources intended for native French speakers.

**** HERITAGE SPANISH SPEAKERS ARE RECOMMENDED FOR SPANISH 2 OR ABOVE, SUBJECT TO TEACHER EVALUATION AND APPROVAL.**

SPANISH I - ELECTIVE, C40/AHD Course# 408H/409H - DOE#2120
Grade: 9-10-11-12
Semesters: 2
Credits: 2

Spanish I emphasizes the skills of reading, writing, listening, and speaking within the context of daily life and travel. Simple sentences and short paragraphs in the present tense are stressed. Short simple novels are read. A survey of Spanish-speaking cultures is included. This course uses a comprehension based method of language teaching.

SPANISH II - ELECTIVE, C40/AHD Course# 410H/411H - DOE# 2122
Grade:9-10-11-12
Semesters: 2
Credits: 2
Prerequisite: Spanish I

Spanish II reviews and advances the learning in Spanish I. Vocabulary and grammatical concepts are expanded. Short simple novels are read. Writing sentences in the past, present, and future tenses along with reading comprehension is emphasized. This course uses a comprehension based method of language teaching.

SPANISH III - ELECTIVE, C40/AHD Course# 412H/413H - DOE#2124
Grade:9-10-11-12
Semesters: 2
Credits: 2
Prerequisite: "C-" or better in Spanish II

Spanish III stresses oral and written communication skills in preparation for college language courses and daily life experiences. Reading comprehension is enhanced through the study of novels and short stories. Short essays using compound and complex sentences are written. Specific Spanish-speaking cultures are studied in depth. This course uses a comprehension based method of language teaching.

SPANISH IV - ELECTIVE, C40/AHD Course# 414H/415H - DOE#2126
Grade: 11-12
Semesters: 2
Credits: 2
Prerequisite: "C-" or better in Spanish III

Spanish IV is for the serious academic student who plans on using Spanish in college language courses or daily life experiences. Cultures are studied in depth through research and reports. Advanced grammatical concepts are studied. Compositions are written in the target language. Communication is stressed through the skills of reading, writing, listening, and speaking. This course uses a comprehension based method of language teaching.

SPECIAL PROGRAMS

SPECIAL EDUCATION

Students identified with special needs may have any required subject taught in the Special Education or in the Learning Disabilities areas in order to meet the unique needs of a student identified as disabled in accordance with Article 7.
The procedures to determine these instances are as follows:

- ☞ student evaluation and testing
- ☞ case conferences and annual case reviews
- ☞ individualized education programs (IEP)
- ☞ individualized transition plans (ITP)
- ☞ early childhood, elementary and secondary programs
- ☞ placement in the least restrictive environment
- ☞ procedures for alternative or residential placements

FOCUS/GIFTED AND TALENTED

Maconaquah High School offers a variety of opportunities for students previously identified as participants in the FOCUS Program. Some of the programs included are: Honors English-9, Honors English-10, AP English 11, AP English 12, Honors Biology-9, AP Physics, Honors Algebra, Honors Geometry, Honors Algebra II, DC Precalculus, DC Calculus, ACP American History, DC Economics, AP US Government, as well as enrollment in local college courses that may be taken for dual credit.

ADVANCED PLACEMENT PROGRAM

Maconaquah High School offers Advanced Placement courses. AP courses are designed to challenge students, to prepare the student with skills and knowledge covered by the AP exam in his/her subject area, and to offer opportunities in various forms and advanced levels of learning. Advanced Placement courses follow very closely the course descriptions of the College Board of Education Testing Service. The following courses are offered as AP courses:
AP US Government
AP Language and Composition
AP Literature and Composition
AP Physics
Advanced Placement examinations are administered in May of each year. All AP exams are available with some examination expenses funded by the state of Indiana. Individual colleges and universities determine whether it will accept credit scores from AP examinations.

KOKOMO AREA VOCATIONAL SCHOOL

The Kokomo Area Career Center has developed an online guide of course descriptions to provide the high school student, their parents, and the community with information regarding a career choice through the Kokomo Area Career Center. The main purpose of a Career Center education is to provide all citizens, considering unique individual interests, needs and abilities, an equal opportunity to acquire marketable skills, occupational knowledge and positive attitudes for entering and continuing satisfying and productive work of their choice.

Educational services, programs, instruction and facilities will not be denied to anyone in the Kokomo Area Career Center as the result of his or her age, race, color, national origin, sex, or handicapped condition. Students are urged to consider all vocational opportunities offered to them and to make a choice that will reflect their own individual strengths, interests and abilities.

ENROLLMENT INFORMATION

Students interested in programs offered by the Kokomo Area Career Center must submit an application. Students may get an application from their counselor or from the vocational office. Students can complete the application with the help of their counselor and it will then be submitted to the Career Center office. Students applying to the Career Center will have opportunities to visit their vocational class to ensure that the program they have chosen is right for them.

MACONAQUAH HIGH SCHOOL COURSE OFFERED FOR COLLEGE CREDIT

PRINCIPLES OF AGRICULTURE - ELECTIVE, WC(3.0) Course#451/451H DOE# 7117
PRIN AG
Grade: 9-10-11-12
Semesters: 2
Credits: 2, **Dual Credit through IVTCC, AGRI 100**
Prerequisite: None

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. Management of the Maconaquah Cattle Company herd and row crop acreage will be a primary focus in this course.

Next Level Plan of Study - Animal Agriscience Pathway

ANIMAL SCIENCE- ELECTIVE, WC(3.0) Course# 456H/459H - DOE# 5008
ANML SCI
Grade: 10-11-12
Semesters: 2
Credits: 2, **Dual Credit through IVTCC, AGRI 103**

Required Prerequisites: Principles of Agriculture
Fulfills a science course requirement for all diplomas, elective, or directed elective

Animal Science is a two-semester course that provides students with an overview of the animal agriculture industry. Students participate in a large variety of activities and laboratory work including real and simulated animal science experiences and projects. All areas that the students study may be applied to both large and small animals. Topics to be covered in the course include: history and trends in animal agriculture, laws and practices relating to animal agriculture, comparative anatomy and physiology of animals, biosecurity threats and interventions relating to animal and human safety, nutrition, reproduction, careers, leadership, and supervised agricultural experiences relating to animal agriculture. Management of the school's livestock programs will be the primary focus of this course.

ADVANCED LIFE SCIENCE: ANIMALS - ELECTIVE, WC(3.0) Course# 226H/227H - DOE# 5070
ALS ANIML
Grade: 11-12
Semesters: 2
Credits: 2, **Dual Credit through IVY TECH, AGRI 107**
Required Prerequisites: Animal Science
Fulfills a science course requirement for all diplomas, elective, or directed elective

Advanced Life Science: Animals is a two-semester course that provides students with opportunities to participate in a variety of activities including laboratory work. Students will explore concepts related to history and trends in animal agriculture as related to animal welfare, husbandry, diseases and parasites, laws and practices relating to handling, housing, environmental impact, global sustainable practices of animal agriculture, genetics, breeding practices, biotechnology uses, and comparative knowledge of anatomy and physiology of animals used in animal agriculture. Management of the school's livestock programs will be the primary focus of this course.

Next Level Plan of Study - Plant and Soil Agriscience Pathway

PLANT & SOIL SCIENCE- ELECTIVE, WC(3.0) Course# 462/462H- DOE# 5170
PLT SL SCI
Grade: 10-11-12
Semesters: 2
Credits: 2, **Dual Credit through IVTCC, AGRI 105**
Required Prerequisites: Principles of Agriculture
Fulfills a science course requirement for all diplomas, elective, or directed elective

Plant and Soil Science a two semester course that provides students with opportunities to participate in a variety of activities including laboratory and field work. Coursework includes hands-on learning activities that encourage students to investigate areas of plant and soil science. Students are introduced to the following areas of plant and soil science: plant growth, reproduction and propagation,photosynthesis and respiration, diseases and pests of plants and their management, biotechnology, the basic components and types of soil, soil tillage, and conservation. Management of the school's row crop acreage will be a primary focus of this course.

ADVANCED LIFE SCIENCE: PLANTS AND SOILS - ELECTIVE, WC(3.0) Course#460H/461H - DOE#5074
ALS PLT/SL
Grade: 11-12
Semesters: 2
Credits: 2, **Dual Credit through IVY TECH, AGRI 109**
Required Prerequisite: Plant and Soil Science
Fulfills a science course requirement for all diplomas, elective, or directed elective

Advanced Life Science: Plants and Soils is a two semester course that provides students with opportunities to participate in a variety of activities including laboratory work. Students study concepts, principles, and theories associated with plants and soils. Knowledge gained enables them to better understand the workings of agricultural and horticultural practices. They recognize how plants are classified, grow, function, and reproduce. Students explore plant genetics and the use of plants by humans. They examine plant evolution and the role of plants in ecology. Students investigate, through laboratories and fieldwork, how plants function and how soil influences plant life. Management of the school's row crop acreage will be a primary focus of this course.

Next Level Plan of Study - Networking Pathway

PRINCIPLES OF COMPUTERS AND INFORMATICS - ELECTIVE, WC(3.0) Course #499/499H - DOE# 7183
PRIN COMP INFO
Grade: 9-10-11
Semesters: 2
Credits: 2, **Dual Credit through IVY TECH, INFM 109**
Prerequisite: None

Principles of Computers and Informatics 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.

NETWORKING FUNDAMENTALS - ELECTIVE, WC(3.0) Course# 510H/511H - DOE# 7182
NTWK FUN
Grades: 10-11-12
Semesters: 2
Credits: 2, **Dual Credit through IVY TECH, NETI 109**
Required Prerequisite: Information Technology Fundamentals, Recommended GPA of a C (5.0)

This course introduces students to concepts of local and wide area networks, home networking, networking standards using the IEEE/OSI model, network protocols, transmission media and network architecture/topologies. Security and data integrity will be introduced and emphasized throughout this course. The purpose of this course is to offer students the critical information needed to successfully move into a role as an IT professional supporting networked computers. Concepts covered will include TCP/IP client administration, planning a network topology, configuring the TCP/IP protocol, managing network clients, configuring routers and hubs as well as creating a wireless LAN.

DIGITAL APPLICATIONS AND RESPONSIBILITY - ELECTIVE, WC(3.0) Course# 504H - DOE# 4528
DIG APPS RESP
Grade: 9-10-11-12
Semesters: 1
Credits: 1, **Dual Credit through IVY TECH if students successfully pass Accuplacer, CINS 101**

The course prepares students to use computer technology in an effective and appropriate manner. Students develop knowledge of word processing, spreadsheets, presentation and communications software. Students establish what it means to be a good digital citizen and how to use technology appropriately.

NETWORKING II: **Infrastructure - ELECTIVE, WC (3.0)** Course# 512H/513H - DOE# 4588
NET II INFRA
Grade: 11-12
Semesters: 2
Credits: 2, **Dual Credit through IVY TECH**
Prerequisite: Successful completion of Networking I
This course focuses on learning the fundamentals of networking, routing, switching, and related protocols. In this course, students learn both the practical and conceptual skills that build the foundation for understanding basic networking, routing, and switching. Students are introduced to the two major models used to plan and implement networks: OSI and TCP/IP. The OSI and TCP/IP functions and services are examined in detail. Students will learn how a router addresses remote networks and determines the best path to those networks, employing static and dynamic routing techniques.

Next Level Plan of Study - Education and Training Pathway

PRINCIPLES OF TEACHING - ELECTIVE, WC(3.0) Course # 378H/ 379H - DOE# 7161
PRIN TEACH
Grades: 11, 12
Semesters: 2
Credits: 2, **Dual Credit through IU-Kokomo, EDUC F-200**
Prerequisites: None, Recommended successful completion of Peer Tutoring, Concurrent Enrollment in DOE - 7157 CHLD ADL DEV, 5.8/12.0 GPA

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 minimum 20 hour classroom observation experience is required for successful completion of this course. Each participant must 1) provide transportation to and from the assigned school, 2) participate in student car pools, or 3) request an assignment at Maconaquah Elementary School, which is within walking distance.

CHILD AND ADOLESCENT DEVELOPMENT - ELECTIVE, WC(3.0) Course# 372/372H - NLPS# 7157
CHLD ADL DEV
Grades: 11, 12
Semesters: 2
Credits: 2, **Dual Credit through IU-Kokomo**, **EDUC P-214**
Required Prerequisites: Recommended successful completion of Peer Tutoring, Concurrent Enrollment in DOE - 7161 PRIN TEACH, 5.8/12.0 GPA

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.

TEACHING AND LEARNING - ELECTIVE, WC(3.0) Course# 371/371H - DOE #7162
TEACH LRN
Grade: 12
Semesters: 2
Credits: 2, **Dual Credit through IU-Kokomo, EDUC W-200**
Required Prerequisites: Principles of Teaching, Child and Adolescent Development, Concurrent Enrollment in DOE - 7267 ED PROF CAP, 5.8/12.0 GPA

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. Counts as a directed elective or elective for all diplomas

EDUCATION PROFESSIONS CAPSTONE - ELECTIVE, WC(3.0) Course# 384/384H - DOE #7267
ED PROF CAP
Grade: 12
Semesters: 2
Credits: 2, **Dual Credit through IU-Kokomo, EDUC K-205**
Required Prerequisites: Principles of Teaching, Child and Adolescent Development, Concurrent Enrollment in DOE - 7162 TEACH LRN, 5.8/12.0 GPA

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.

HEALTH SCIENCES - HEALTHCARE

PRINCIPLES OF HEALTHCARE - ELECTIVE, C40/AHD, WC(3.0) Course# 222/222H - DOE# 7168
PRIN HLCR
Grade: 11, 12
Semesters: 1, Fall Only, 2 Period Block
Credits: 2, Dual Credit through IU-Kokomo, IUK L230 - Healthcare Delivery Systems
Prerequisite: Concurrent Enrollment in DOE 5274 MED TERMS, 6.6/12.0 GPA

Principles of Healthcare content includes skills common to specific health career topics such as patient nursing care, dental care, animal care, medical laboratory, public health, and an introduction to healthcare systems. Lab experiences are organized and planned around the activities associated with the student's career objectives.

MEDICAL TERMINOLOGY - ELECTIVE, C40/AHD, WC(3.0) Course# 223/223H - DOE# 5274
MED TERMS
Grade: 11, 12
Semesters: 1, Spring Only, 2 Period Block
Credits: 2, Dual Credit through IU-Kokomo, IUK HLTM 195 - Medical Terminology
Prerequisite: Concurrent Enrollment in DOE 7168 PRIN HLCR, 6.6/12.0 GPA

Medical Terminology prepares students with language skills necessary for effective, independent use of health and medical reference materials. It includes the study of health and medical abbreviations, symbols, and Greek and Latin word part meanings, all taught within the context of body systems. This course builds skills in pronouncing, spelling, and defining new words encountered in verbal and written information in the healthcare industry. Students have the opportunity to acquire essential skills for accurate and logical communication, and interpretation of medical records. Emphasis is on forming a foundation of a medical vocabulary including; appropriate and accurate meaning, spelling, and pronunciation of medical terms, and abbreviations, signs, and symbols.

HEALTHCARE SPECIALIST: CNA-ELECTIVE, C40/AHD, WC(3.0) Course# 206/206H-DOE # 7166
HC SPEC CNA
Grade: 11, 12
Semesters: 2 Semester Course, 2 Semesters Required
Credits: 2, Dual Credit through IU-Kokomo 1 Credit per Semester, 2 Credits Maximum
Prerequisite: Principles of Healthcare

The Healthcare Specialist: CNA prepares individuals desiring to work as nursing assistants with the knowledge, skills and attitudes essential for providing basic care in extended care facilities, hospitals and home health agencies under the direction of licensed nurses. The course will introduce students to the disease process and aspects of caring for a long-term care resident with dementia. Individuals who successfully complete this course are eligible to apply to sit for the Indiana State Department of Health (ISDH) certification exam for nursing assistants. This course meets the minimum standards set forth by the ISDH for Certified Nursing Assistant training and for health care workers in long-term care facilities.

HEALTHCARE SPECIALIST CAPSTONE, C40/AHD, WC (3.0) Course#207/207H-Doe # 7255
HC SPEC CAP
Grade: 11, 12
Semesters: 2 Semester Course, 2 Semesters Required
Credits: 2, Dual Credit through IU-Kokomo 1 Credit per Semester, 2 Credits Maximum,
Prerequisite: Principles of Healthcare

The Healthcare Specialist Capstone course will facilitate healthcare students' acquisition of additional knowledge and skills necessary to work in a variety of healthcare settings beyond a long term care facility including hospitals, doctors' offices, and clinics. Students can accomplish this goal by completing coursework that will cover topics such as Medical Law and Ethics, Electronic Health Records, and/or Behavioral Health. Schools may offer additional healthcare certifications such as the Certified Clinical Medical Assistant (CCMA) or Phlebotomy along with the coursework or in place of the coursework.

Next Level Plan of Study - Construction Trades Pathway

Principles of Construction Trades - ELECTIVE, WC(3.0) Course #1010H/1011H DOE# 7130
PRIN CON TR
Grades: 9,10,11,12
Semesters: 2
Credits: 2, **Dual Credit through IVY TECH, BCTI 100**

Prerequisite: Introduction to Construction

Principles of Construction Trades prepares students with the basic skills needed to continue in a construction trade field. Topics will include an introduction to the types and uses for common hand and power tools, learn the types and basic terminology associated with construction drawings, and basic safety. Additionally students will study the roles of individuals and companies within the construction industry and reinforce mathematical and communication skills necessary to be successful in the construction field.

Construction Trades: General Carpentry - ELECTIVE, WC(3.0) Course#1012H/1013H DOE# 7123
CON TRD GC
Grades: 10,11,12
Semesters: 1 Semester, Fall Only, Blocked Course
Credits: 2, **Dual Credit through IVY TECH, BCTI 101**
Prerequisite: Principles of Construction Trades, Concurrent Enrollment in DOE 7122 - CON TRD FF FIN

Construction Trades: General Carpentry builds upon the skills learned in the Principles of Construction Trades and examines the basics of framing. This includes studying the procedures for laying out and constructing floor systems, wall systems, ceiling joist and roof framing, and basic stair layout. Additionally, students will be introduced to building envelope systems.

Construction Trades: Framing and Finishing - ELECTIVE, WC(3.0) Course #1014H/1015H DOE# 7122
CON TRD FR FIN
Grades: 10,11,12
Semesters: 1 Semester, Spring Only, Blocked Course
Credits: 2, **Dual Credit through IVY TECH, BCTI 103**
Prerequisite: Principles of Construction Trades, Concurrent Enrollment in DOE 7123 - CON TRD GC

Construction Trades: Framing and Finishing prepares students with advanced framing skills along with interior and exterior finishing techniques. Topics include roofing applications, thermal and moisture protection, exterior finishing, cold-formed steel framing, drywall installation and finishing, doors and door hardware, suspended ceilings, window, door, floor, and ceiling trim, and cabinet installation.

Next Level Plan of Study - Welding Technology Pathway

Principles of Welding Technology - **ELECTIVE, WC(3.0)** Course #1000/1000H DOE# 7110
PRIN WEL TCH
Grades: 10,11,12
Semesters: 1 Semester, Fall Only, Blocked Course
Credits: 2, **Dual Enrollment through IVY TECH, WELD 100/WELD 271**
Prerequisite: None, Concurrent Enrollment in DOE 7111 SHLD MAW

Principles of Welding Technology includes classroom and laboratory experiences that develop a variety of skills in oxy-fuel cutting and basic welding. This course is designed for individuals who intend to make a career as a Welder, Technician, Designer, Researcher, or Engineer. Emphasis is placed on safety at all times. OSHA standards and guidelines endorsed by the American Welding Society (AWS) are used. Instructional activities emphasize properties of metals, safety issues, blueprint reading, electrical principles, welding symbols, and mechanical drawing through projects and exercises that teach students how to weld and be prepared for postsecondary and career success.

Shielded Metal Arc Welding - ELECTIVE, WC(3.0) Course #1001/1001H DOE# 7111
SHLD MAW
Grades: 10,11,12
Semesters: 1 Semester, Spring Only, Blocked Course
Credits: 2, **Dual Enrollment through IVY TECH, WELD 108/WELD 206**
Prerequisite: None, Concurrent Enrollment in DOE 7110 - PRIN WEL TECH

Shielded Metal Arc Welding involves the theory and application of the Shielded Metal Arc Welding process. Process theory will include basic electricity, power sources, electrode selection, and all aspects pertaining to equipment operation and maintenance. Laboratory welds will be performed in basic weld joints with a variety of electrodes in the flat, horizontal and vertical positions. Emphasis will be placed on developing the basic skills necessary to comply with AWS industry standards.

Gas Welding Processes - ELECTIVE, WC(3.0) Course #1002/1002H DOE# 7101
GAS WEL PRC
Grades: 11,12
Semesters: 1 Semester, Fall Only, Blocked Course
Credits: 2, **Dual Enrollment through IVY TECH, WELD 207/WELD 272**
Prerequisite: Principles of Welding Technology, Shielded Metal Arc Welding, Concurrent Enrollment in DOE 7226 - WEL TECH CAP

Gas Welding Processes is designed to cover the operation of Gas Metal Arc Welding (MIG) equipment. This will include all settings, adjustments and maintenance needed to weld with a wire feed system. Instruction on both short-arc and spray-arc transfer methods will be covered. Tee, lap, and open groove joints will be done in all positions with solid, flux core, and aluminum wire. Test plates will be made for progress evaluation. Schools may choose to offer the course as a comprehensive MIG Welding course or a combination of introductory MIG and TIG Welding operations.

Welding Technology Capstone - ELECTIVE, WC(3.0) Course #1003/1003H DOE# 7226
WELD TECH CAP
Grades: 11,12
Semesters: 1 Semester, Spring Only, Blocked Course
Credits: 2, **Dual Enrollment through IVY TECH, WELD 208/WELD 273**
Prerequisite: Principles of Welding Technology, Shielded Metal Arc Welding, Gas Welding Processes, Concurrent Enrollment in DOE 7101 - GAS WEL PRC

The Welding Technology Capstone course builds upon the knowledge and skills developed in Welding Fundamentals, Shielded Metal Arc Welding, and Gas Metal Arc Welding by developing advanced welding skills in Gas Tungsten Arc Welding (TIG), Pipe Welding, and Fabrication. As a capstone course, students should have the opportunity

Automotive

PRINCIPLES OF AUTOMOTIVE SERVICES Course #7213 DOE#7213
PRIN AUTO SER
Grade: 11
Required Prerequisites: *****This course is off campus and will be on a case by case basis. An interview will take place, grades and attendance will be taken into consideration. Must have transportation, valid driver's license, and no speeding ticket violations.***
Semesters: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum

Principles of Automotive Services gives students an overview of the operating and general maintenance systems of the modern automobile. Students will be introduced to the safety and operation of equipment and tools used in the automotive industry. Students will study the maintenance and light repair of automotive systems. Also, this course gives students an overview of the electrical operating systems of the modern automobile. Students will be introduced to the safety and operation of equipment and tools used in the electrical diagnosis and repair in the automotive electrical industry. Students will study the fundamentals of electricity and automotive electronics. Counts as a directed elective or elective for all diplomas.

BRAKE SYSTEMS Course #7205 DOE# 7205
BRK SYS
Grades: 11, 12
Required Prerequisites: Principles of Automotive Services , *****This course is off campus and will be on a case by case basis. An interview will take place, grades and attendance will be taken into consideration. Must have transportation.***

Semesters: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum

Brake Systems teaches theory, service, and repair of automotive braking systems. This course provides an overview of various mechanical brake systems used on today's automobiles. This course will emphasize professional diagnosis and repair methods for brake systems. Counts as a directed elective or elective for all diplomas Schools partnering with Vincennes University must offer the program of study as part of a 2-3 period block

English Department

AP ENGLISH 11 - ELECTIVE/REQUIRED, C40/AHD, WC(3.0) Course# 130H/131H - DOE# 1056
LNG/COMP AP
Grade: 11
Semesters: 2
Credits: 2
Prerequisite: By English department placement only, College credit determined by AP Exam

AP English Language and Composition is a course based on the content established and copyrighted by the College Board. Students will take the College Board AP test administered toward the end of the course. The test will not affect the classroom grade, but can allow a student the opportunity to jump start their college career by earning college credits before leaving high school. The course is not intended to be used as a dual credit course. The course focuses on the development and revision of evidence-based analytic and argumentative writing and the rhetorical analysis of nonfiction texts. The course aligns to an introductory college-level rhetoric and writing curriculum, which requires students to develop evidence-based analytic and argumentative essays that proceed through several stages or drafts. Students evaluate, synthesize, and cite research to support their arguments. Throughout the course, students develop a personal style by making appropriate grammatical choices. Additionally, students read and analyze the rhetorical elements and their effects in non-fiction texts, including graphic images as forms of text, from many disciplines and historical periods. There is no prescribed sequence of study.

AP ENGLISH 12 - ELECTIVE/REQUIRED, C40/AHD, WC (3.0) Course# 138H/139H - DOE# 1058
LIT/COMP AP
Grade: 12
Semesters: 2
Credits: 2
Prerequisite: By English department placement only, College credit determined by AP Exam

AP English Literature and Composition is a course based on the content established and copyrighted by the College Board. Students will take the College Board AP test administered toward the end of the course. The test will not affect the classroom grade, but can allow a student the opportunity to jump start their college career by earning college credits before leaving high school. The course is not intended to be used as a dual credit course. The course engages students in the close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language to provide both meaning and pleasure. As they read, students consider a work's structure, style, and themes, as well as its use of figurative language, imagery, symbolism, and tone. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works.

Math Department

PRE-CALCULUS: Algebra - ELECTIVE, WC(3.0), C40/AHD, DC Course# 316H DOE #2544
ADV MTH CC AL
Grade: 10-11-12
Semesters: 1
Credits: 1, **Dual Credit through IVTCC, MATH 136, Fall Only**
Prerequisite: Algebra II and Department Placement

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

Pre-Calculus: Trigonometry - ELECTIVE, WC(3.0), C40/AHD, DC Course# 317H DOE #2544
ADV MTH CC TRIG

Grade: 10-11-12
Semesters: 1
Credits: 1, **Dual Credit through IVTCC, MATH 137, Spring Only**
Prerequisite: Algebra II and Department Placement

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

CALCULUS- ELECTIVE, WC(3.0), C40/AHD, (WC3.0), DC Course# 318H/319H - DOE# 2544
ADV MTH CC CALC
Grade: 11-12
Semesters: 2
Credits: 2, **Dual Credit through IVTCC, MATH 201**
Prerequisite: Honors Pre-Calculus or Department Placement

The content of Calculus has been established by IVY TECH Community College The topics include limits, continuity, derivatives, definite integrals, and techniques of integration involving rational, Trigonometric, logarithmic, and exponential functions. The course also includes applications of the derivative, the integral, and theory of Calculus.

Science Department

AP PHYSICS I-Algebra Based- ELECTIVE, C40/AHD, WC (3.0) Course # 220/221-DOE# 3080
PHYS 1 AP
Grade: 11-12
Semesters: 2
Credits: 2, College credit determined by AP Exam
Prerequisites: Physics I (B or better), Geometry + Algebra II (C or better), Enrollment in Precalculus

AP Physics I, Algebra based is a course based on the content established and copyrighted by the College Board. The course is not intended to be used as a dual credit course. AP Physics 1: Algebra-based is equivalent to a first-semester college course in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; mechanical waves and sound. It will also introduce electric circuits. Counts as a Science Course for all diplomas, and qualifies as a quantitative reasoning course

Social Studies Department

ACP AMER. HISTORY - REQUIRED/ELECTIVE, C40/AHD, WC (3.0) Course# 245H/246H DOE# 1574
ADV SS CC HIST
Grade: 11
Semesters: 2
Credits: 2 - **Dual Credit through IU BLOOMINGTON - H105/H106**
Prerequisites: GPA Greater 2.5/4.0 scale or teacher recommendation, Guidance Office Application

ACP American History is a dual credit course and college credit is through Indiana University. It is taught in conjunction with the AP US History course and has a similar curriculum. A student must earn a C- or better average in the class in order to earn college credit for the course.

ECONOMICS, DUAL CREDIT- REQUIRED/ELECTIVE, C40/AHD. WC (3.0) Course # 254 DOE# 1574
ADV SS CC ECON
Grade Level: 12

Semesters: 1
Credits: 1, **Dual Credit through IVTCC, ECON 101 (Economic Fundamentals), Fall/Spring Only**
Prerequisites: B- GPA or better or recommendation of teacher.

Economic Dual Credit is a course based on the content established by Ivy Tech Community College. The course gives students a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the economics system. Topics include: (1) basic economic concepts, (2) the nature and functions of product markets, (3) factor markets, and (4) market failure and the role of the government.

College Credit Transfers

Please refer to the form below for course credit evaluation on any course taken from a higher institution. Return the form within ***ONE WEEK* of beginning the course.
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Maconaquah High School

College Credit Transfer Course Evaluation Form

Please read carefully. All steps **MUST** be completed in order to be considered for evaluation.

Student Name: _____ Grade: _____

Name of College requesting Transfer Credit: _____
Contact of Person at the College/University: _____

1. Complete the chart below to request your college credits be evaluated for possible acceptance at Maconaquah High School.
2. Attach a course description for each transfer course being evaluated from the transfer institution containing:
    a. Official Course Catalog Description
    b. Official Course Syllabus

Transfer Course Prefix	Transfer Course Number	Transfer Course Title	Credit Hours	Enrollment Dates	IDOE Course Equivalent	H.S. Credit Equivalent	Approval	Weight Applied

3. For any course approved for credit, an official transcript MUST be obtained and submitted to the guidance office at the completion of the course. No credits will be awarded without official transcripts.

Parent/Guardian Signature: _____ Date: _____

Student Signature: _____ Date: _____

Principal Signature: _____ Date: _____

Guidance Director Signature: _____ Date: _____