

Monroe Central Jr/Sr High

Academic Planning Guide

2021-2022

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MONROE CENTRAL SCHOOL CORPORATION

MISSION STATEMENT

The Monroe Central School Corporation is committed to providing excellent educational opportunities and a caring environment, which will fiscally and effectively meet the educational needs of all students and community members.

In partnership with the community, the schools will assist students of all ages in acquiring skills, knowledge, and an appreciation of the rich tradition of community values so they will become productive and responsible community citizens.

MONROE CENTRAL JUNIOR SENIOR HIGH SCHOOL

MISSION STATEMENT

Monroe Central Junior-Senior High School, in partnership with the community, maintains a supportive environment, providing opportunities for students and staff to develop their full potential as citizens of a global society.

MONROE CENTRAL JUNIOR-SENIOR HIGH SCHOOL

DESIRED LEARNER OUTCOMES

The Monroe Central Junior-Senior High School strives to have each student attain the following learner outcomes upon graduation:

1. Strong written, verbal and communication skills.
2. Understand and adapt to new technologies.
3. Possess characteristics of a good citizen, e.g. to be honest, cooperative, tolerant, responsible, and respectful of others.
4. Basic concepts and principles of language arts, mathematics, science and social studies are understood and applied to problem-solving situations.
5. Personal habits that promote wellness, personal hygiene, and a healthy lifestyle.
6. Lifelong learners and competent decision makers.
7. Work and academic skills necessary for employment or post-secondary opportunities.

STATE STUDENT ASSISTANCE COMMISSION OF INDIANA – GRANT PREMIUM ACADEMIC HONORS DIPLOMA or CORE 40 WITH TECHNICAL HONORS

Indiana high school students who graduate with an Academic Honors Diploma or Core 40 with Technical Honors that have a cumulative grade point average (GPA) of at least 3.0 on a 4.0 scale, may qualify for State Student Assistance Commission of Indiana (SSACI) grant premiums for post-secondary education. This grant premium is awarded as a SSACI grant based on financial need calculated from the federal needs assessment mechanism available through the Free Application for Federal Student Aid (FAFSA).

WEIGHTED GRADE INFORMATION

The following courses will be weighted when determining a student's GPA:

Class	Weight
English 9 Honors	0.50
English 10 Honors	0.50
American Lit. Honors	0.50
ACP English W131	1.0
ACP English L202	1.0
ACP Spanish III S200	1.0
ACP Spanish IV S250	1.0
ACP Precalculus M125/ ACP Trig. M126	1.0
Math Ball State M125	0.75
ACP Calculus M215	1.0
Ivy Tech US Gov POLS 101	0.75
ACP US History H106	1.0
AP US History	1.0
Algebra I Honors	0.50
Geometry Honors	0.50
Algebra II Honors	0.50
Biology Honors	0.50
Chemistry Honors	0.50
Ivy Tech Chem II CHEM 101	0.75
ACP Biology II L100	1.0
Ivy Tech Animal Science AGRI 103	0.50
Ivy Tech Adv. Animal Science AGRI 107	0.50
Ivy Tech Agri. Power Struc. Tech. AGRI 106	0.50
Ivy Tech Agri. Bus. & Farm Mgmt. AGKI 102	0.50
Ivy Tech Horticulture AGRI 116	0.50
Ivy Tech Psychology PSYC 101	0.75

Students enrolled in the above courses who receive a grade of C or higher will receive an additional 0.5 on their course GPA.

<u>EXAMPLE: Course</u>	<u>Grade</u>	<u>Value</u>	<u>Adjusted Value</u>
Advanced Mathematics / IU M215	B	3.0 + 0.5	= 3.5

ONLINE CURRICULUM (provided by Edmentum)

Monroe Central Jr/Sr High School recognizes that some students need additional help to successfully complete graduation requirements. Edmentum is offered to provide students lacking in course requirements for graduation the opportunity to fulfill those requirements. Edmentum is an online credit program where students work at their own pace to complete high school credits.

Eligibility:

Placement in the Edmentum program is determined by the principal and/or student services department. A student must be on a diploma track and referred to the program by a school administrator and/or school counselor. The student must meet at least one of the following conditions to be admitted:

1. Has attempted and failed to complete the traditional academic course at least once prior to consideration.
2. Has been removed from a course for extenuating circumstances (i.e. case conference decision, medical issues, or other circumstances deemed necessary by the administration).
3. As a third or fourth year student, is in jeopardy of not graduating with his/her cohort due to lack of credits.
4. As a third or fourth year student, is unable to resolve a scheduling conflict for a required course, for college preparation, or other circumstances deemed necessary by the administration.

A conference must be conducted with an administrator or school counselor and the student to discuss expectations and review the Edmentum class(es) being selected. There are limited openings in the program and only students who are serious about meeting the attendance and behavior rules will be admitted.

General Information:

1. Students are not guaranteed credit in Edmentum. Hard work, responsibility and perseverance are necessary in earning high school credit.
2. The student is only allowed to complete two credits in Edmentum per semester.
3. ALL TESTS MUST BE TAKEN AT SCHOOL WITH SUPERVISION BY SCHOOL PERSONNEL. Tests (Pre-tests and Post Tests) must be hidden until they are opened by the supervisor when the student is ready to take the test. Students should be locked into Edmentum on Hapara and supervised during any testing on Edmentum. **Pre-tests are only made available to Credit Recovery students. Students taking "first-time" Courses will not take Pre-tests and must complete all parts of the modules.*
4. Post-tests may only be taken two times.
5. There will be a comprehensive final at the end of each course. The comprehensive final can only be taken once.

6. Students must have a 73% or higher to be graded out of a course. 73% would be a C average. Departments can weight certain categories according to their classroom requirements.

Behavioral Expectations:

A student's participation in Edmentum is a privilege and opportunity to regain credits and/or complete requirements for graduation. Additionally, those students who do not make adequate progress due to lack of effort or poor attendance will meet with the administration to determine the best course of action.

Edmentum for Summer School:

Online courses are available for students to take during the summer.

Edmentum for Early Graduation:

A student has to complete the Early Graduation Application from Student Services. The application has to be signed by the Principal, Assistant Principal, and the School Counselor. Early Graduation is necessary for some students for multiple reasons. The administration can approve or deny an application. The student is only allowed to complete two credits on Edmentum per semester. If the student's application is approved, they can take courses that have not been previously completed in the classroom.

Cheating:

(per MC Student Handbook, page 22)

Cheating is handled by the teacher (or Edmentum supervisor) and a referral sent to the office for the student's file. Cheating: To act dishonestly or practice fraud. This includes such actions as copying school work or allowing another student to copy your school work without the teacher's permission. The use of an electronic device to send answers, share and claim work that is not yours, and/or capture a picture or a screenshot of assignments and/or answers also falls under the definition of cheating.

1st offense - Automatic "0" on entire assignment or test, parent notified

2nd offense - Automatic "F" for grading period, parents notified

3rd offense - Automatic "F" for the semester, parents notified

Last revised 02/08/2019

DROP/ADD, WITHDRAWAL POLICY (FROM A COURSE OR COURSES)

The selection of an individual student schedule is a serious responsibility and should be treated as such.

Any student wishing to make a schedule change should contact the Student Services before the end of the school year. During the summer, Student Services personnel are available during the first two weeks and the last two weeks of summer break to discuss schedule changes. **After school has begun for the year, schedule changes will NOT be made for the current semester. Schedule changes will be made under these circumstances only:**

1. Planned career changes
2. Up-grade from one academic program to another
3. Make-up of a required course for graduation
4. To eliminate course duplication.

Efforts will be made to allow students to remain with the same teacher from first to second semester; however, specific requests for teachers cannot be honored. Any student removed from a class due to disciplinary actions or attendance will receive no credit. Attendance failure will be indicated by an XF in the student's records. Students/parents requesting removal from a class after the three (3) day period will result in a WF (withdraw-fail) on their records. This also applies to summer school classes and vocational students.

RETAKEING A COURSE FOR A BETTER GRADE

A student may retake a course for the following reasons:

1. Teacher Request
2. Parent Request
3. To replace a grade lower than "C"
4. To upgrade diploma requirements
5. To meet departmental prerequisites for other courses

NOTE: The higher of the semester grades earned for repeated courses will become the official grade and credit and will be used in the GPA calculation. The prior grades will remain recorded on the student transcript and will not receive a credit and not be used in the GPA calculation.

RETAKEING A COURSE BECAUSE OF A FAILURE

The prior grade will remain on the transcript and will be used in the GPA calculations with no credit.

MUNCIE AREA CAREER CENTER

These classes can be taken the Junior and/or Senior year. Applications are available spring of your sophomore or junior year. Course descriptions are listed in the guide.

Dual Credit allows high school students to engage in college-level work for college credit. If you are a high school junior or senior, have a solid academic preparation, and a desire for more advanced work, then you are a good candidate for Dual Credit classes. The basic premise of the Dual Credit classes is to provide an opportunity for high school students to succeed at college-level course work. The Dual Credit class is not a program for gifted and talented students, but it can serve such students.

Monroe Central Jr/Sr High School ACP Dual Credit Course(s) 2021-2022

*ACP (Advance College Project) with IU East, Richmond

*The standard for acceptance into ACP courses: GPA 2.7 on a 4.0 scale and teacher/counselors endorsements.

*Only course grades of "C" or higher will earn college credit. College credit transfers to most universities.

*Cost: Each credit hour is \$25.00 (Example: MATH 211/215 is 5 credits, so the cost would be \$125.00).

- **Mathematics – MATH M211/215 Calculus I (5 cr)**
 - Two years of high school algebra, one year of high school geometry, precalculus math (or its equivalent), and trigonometry; or both M025 and M026. Limits, continuity, derivatives, definite and indefinite integrals, applications.
- **Mathematics**
 - **MATH-M 25/125 Precalculus Mathematics (3 cr.) – Semester 1**
 - Two years of high school algebra and one year of high school geometry. Algebraic operations; polynomial, exponential, and logarithmic functions and their graphs; conic sections; systems of equations; and inequalities. Credit hours may not be applied toward a degree in the IUB College of Arts and Sciences.
 - **MATH-M 26/126 Trigonometric Functions (2 cr.) – Semester 2**
 - Prerequisite M 25/125. Algebraic operations; polynomial, exponential, and logarithmic functions and their graphs; conic sections; systems of equations; and inequalities. Credit hours may not be applied toward a degree in the IUB College of Arts and Sciences.

- **English - ENG W131 Elementary Composition (3 cr)**
 - Instruction and practice in reading, writing, and critical thinking skills required in college. Emphasis is on written assignments that require synthesis, analysis, and argument based on sources. W131 class size is capped at 25 students.
- **English - ENG L202 Literary Interpretation (3 cr)**
 - Completion of the English composition requirement. Develops critical skills essential to participation in the interpretive process. Through class discussion and focused writing assignments, introduces the premises and motives of literary analysis and critical methods associated with historical, generic, and/or cultural concerns. L202 class size is capped at 30 students.
- **Biology - BIOL L100 Humans and the Biological World (5 cr)**
 - Principles of biological organization, from molecules through cells and organisms to populations. Emphasis on processes common to all organisms, with special reference to humans.
- **History – H106 American History II (3 cr) - IDOE US History**
 - Evolution of American society: political, economic, social structure; racial and ethnic groups; sex roles; Indian, inter-American, and world diplomacy of the United States; evolution of ideology, war, territorial expansion, industrialization, urbanization, international events and their impact on American history.
- **HISP S200/203 Second-Year Spanish I (3 cr) WL**
 - This course reviews some of the basic structures studied in the first year and examines them in more detail. Emphasis remains on the four skills and on critical thinking skills. Readings are both journalistic and literary. Grades are based on exams, oral tests, homework, compositions, and a cumulative final exam. Homework load is substantial. S200 class size is capped at 24 students, regardless of how many are taking the course for college credit.
- **HISP S250/204 Second-Year Spanish II (3 cr) WL**
 - This course continues the work of S200. Continued emphasis on all four skills and on critical thinking skills. Grades are based on exams, oral tests, homework, compositions, and a cumulative final exam. Homework is substantial. After successful completion of this course, the foreign language requirement is fulfilled for schools that require a four-semester sequence. S250 class size is capped at 24 students, regardless of how many are taking the course for college credit.

Monroe Central Jr/Sr High School

Ball State University Dual Credit Course

2021-2022

*Ball State University Dual Credit, Muncie

*The standard for acceptance into Ball State courses: GPA 3.0 on a 4.0 scale and teacher/counselors endorsements.

*Only course grades of "C" or higher will earn college credit. College credit transfers to most universities.

*Cost: \$75

*Only course grades of "C" or higher will earn college credit. College credit transfers to most universities.

- **Mathematics Applications – MATH 125 (3 cr)**
 - A diverse course including statistics and other topics such as mathematical modeling, problem solving, finance, geometrical concepts, growth patterns, and applications to the physical sciences, social sciences, and economics. Core Transfer Library: Mathematics (IMA 1607) Recommended background: three years of college preparatory mathematics in high school.

Monroe Central Jr/Sr High School

Ivy Tech Dual Credit Course(s)

2021-2022

Ivy Tech Community College: Richmond, IN

The standard for acceptance into dual credit courses: See prerequisites per course.

The standard for acceptance into Ivy Tech dual credit is test scores on ACT, SAT and/or ACCUPLACER

Only course grades of “C” or higher will earn college credit. College credit transfers to most universities.

Cost: No Fee

- **Introduction to American Government and Politics - POLS 101 (3 cr.)**
 - Studies federalism, theories of the origins and purposes of government and other aspects of the American government including interest groups, political parties, and the electoral process. Emphasis is placed on constitutional backgrounds and the organization and functions of the executive, legislative, and judicial segments of the national government, civil liberties and civil rights, public opinion, media, bureaucracies, and domestic and foreign policy.
- **Introduction to Psychology – PSYC 101 (3 cr.)**
 - Surveys behavior and cognitive processes as they affect the individual. The course focuses on biological foundations, learning processes, research methodologies, personality, human development and abnormal and social psychology.
- **Introduction to Chemistry I – CHEM 101 (3 cr.)**
 - An introductory course that includes the science of chemistry and measurement, atomic theory and the periodic table, chemical bonding, equation writing and balancing, stoichiometry, gases and acids/bases. Includes lab.
- **Agricultural Business and Farm Management – AGRI 102 (3 cr.)**
 - Deals with vast and complex business of agriculture; emphasizes modern business and farm production methods along with current management and administrative strategies needed for success in an agricultural business.

- **Animal Science - AGRI 103 (3 cr.)**
 - An introduction to animal science in agriculture including livestock species, breeds, and production methods.
- **Plant and Soil Science – AGRI 105 (3 cr.)**
 - An introduction to plant biology and soil science.
- **Agriculture Mechanization - AGRI 106 (3 cr.)**
 - Agriculture Mechanization lab intensive course in which students develop an understanding of basic principles of selection, operation, maintenance, and management of agricultural equipment in concert with the utilization of technology. Topics covered include: safety, electricity, plumbing, concrete, carpentry, welding, engines, emerging technologies, and career opportunities in the area of agriculture mechanization.
- **Advance Animal Science - AGRI 107 (3 cr.)**
 - Investigates concepts to understand animal life and science as it pertains to agriculture. Includes instruction and laboratories to recognize concepts associated with animal taxonomy, life at the cellular level, organ systems, genetics, evolution, ecology, and historical and current issues in animal agriculture.
- **Survey of Horticulture - AGRI 116 (3 cr.)**
 - Presents an overview of horticulture emphasizing the basic concepts of ornamental plant ID, production, and use in the landscape.

IHSAA ELIGIBILITY (www.ihsaa.org)

If you want to play NCAA sports at a Division I or II school, you need to register for a Certification Account with the NCAA Eligibility Center. College-bound student-athletes in Division III can also create a Profile Page to receive important updates about being a student-athlete and preparing for college. Students who are not sure which division they want to compete in can create a Profile Page and transition to a Certification Account if they decide to play Division I or II sports.

The NCAA Eligibility Center works with you and your high school to help you prepare for life as a student-athlete. If you have questions about your eligibility or the registration process, please review our resources or call us toll free at 1-877-262-1492.

Graduation Requirements

Academic Area	Core 40 Diploma	Core 40 with Technical Honors Diploma	Core 40 with Academic Honors Diploma
English/Language Arts	R (8 credits)	R (8 credits)	R (8 credits)
Mathematics	R (Alg 1 - 2 credits) R (Alg II - 2 credits) R (Geom - 2 credits) All students are required to take a math or physics course during their junior or senior year.	R (Alg 1 - 2 credits) R (Alg II - 2 credits) R (Geom - 2 credits) All students are required to take a math or physics course during their junior or senior year.	R (Alg 1 - 2 credits) R (Alg II - 2 credits) R (Geom - 2 credits) R (Higher level - 2 credits) All students are required to take a math or physics course during their junior or senior year.
Science Life Science Physical Science	R (Biology I - 2 credits) R (Chem I or Physics I or Int. Chem-Physics - 2 credits) R (any Core 40 science course -2 credits)	R (Biology I - 2 credits) R (Chem I or Physics I or Int. Chem-Physics - 2 credits) R (any Core 40 science course -2 credits)	R (Biology I - 2 credits) R (Chem I or Physics I or Int. Chem-Physics - 2 credits) R (any Core 40 science course-2 credits)
Social Studies US History Government Economics World History/Civilization OR Geography/History of the World	R (2 credits) R (1 credit) R (1 credit) R (2 credits) R (2 credits)	R (2 credits) R (1 credit) R (1 credit) R (2 credits) R (2 credits)	R (2 credits) R (1 credit) R (1 credit) R (2 credits) R (2 credits)
Health and Safety	R (1 credit)	R (1 credit)	R (1 credit)
Physical Education	R (2 credits)	R (2 credits)	R (2 credits)
Preparing for College and Careers	R (1 credit)	R (1 credit)	R (1 credit)
World Languages French Spanish	E E	E E	R (6-8 credits) R (6-8 credits) May substitute 4 credits of both French and Spanish for 8 credits total.
Fine Arts	E	E	R (2 credits)
Directed Electives World Languages Fine Arts Career/Technical	R - 7 credits	R - 7 credits	R - 7 credits
Total	44 Credits	47 Credits	47 Credits
R = Required Course(s) E = Elective Course (s)		Students should take advantage of elective opportunities in areas related to their career plans	

CORE 40 WITH TECHNICAL HONORS DIPLOMA

Core 40 with Technical Honors diploma, students must:

1. Complete all requirements for Core 40
2. Complete a career-technical program (8 or more related credits)
3. Earn a grade of "C" or better in courses that will count toward the diploma
4. Have a grade point average of "B" or better
5. Complete two of the following: one must be "A" or "B"
 - Score at or above the following levels on WorkKeys: Reading for Information-Level 6, Applied Mathematics-Level 6, Locating Information-Level 5
 - Dual high school/college credit courses in a technical area (6 college credits)
 - Professional Career Internship course or Cooperative Education course (2 credits)
 - Have industry-based work experience as part of a two-year technical education program (minimum 140 hours)
 - Earn a state-approved, industry-recognized certification

CORE 40 WITH ACADEMIC HONORS DIPLOMA

Core 40 with Academic Honors diploma, students must:

1. Complete all requirements for Core 40
2. Earn 2 additional Core 40 Math credits
3. Earn 6-8 Core 40 World Language credits
4. Earn 2 Core 40 Fine Arts credits
5. Earn a grade of "C" or better in courses that will count toward the diploma
6. Have a grade point average of a "B" or better
7. Complete one of the following:
 - AP courses (4 credits) and corresponding AP exams
 - IB (Higher Level) courses (4 credits) and corresponding IB exams
 - Earn a combined score of 1200 or higher on the SAT Critical Reading and Math
 - Score 26 or higher composite on the ACT test
 - Dual high school/college credit courses from the Core Transfer Library (6 transferable college credits)
 - Have a combination of AP courses (2 credits) and corresponding AP exams and dual high school /college credit course(s) from the Core Transfer Library (3 transferable college credits)



Indiana GRADUATION PATHWAYS

The path to graduation is not one-size-fits-all. Indiana provides many pathways for students to earn a high school diploma.

OVERVIEW

Students starting with the Class of 2023 must meet all of the following:

- 1 Credits
- 2 Learn & Demonstrate Employability Skills
- 3 Postsecondary-Ready Competencies

DIPLOMA REQUIREMENTS

- 1 Credits
Earn credits toward a diploma with designation.
 - Core 40 - minimum 40 credits
 - Academic Honors - minimum 47 credits
 - Technical Honors - minimum 47 credits
 - General
- 2 Learn & Demonstrate Employability Skills
Produce defined outcome(s) based on experience.
Defined Outcome Options
 - Videos
 - Papers
 - Resume
 - Dual Credit
 - Certifications
 - Portfolio
 - Projects
 - Slideshows
 - Presentation
 - Five Year Goal Plan
 - Reflection of Experience
 - Letters of Recommendation
 - Letter of Employment Verification
 - Postsecondary-related Experiences
 - Co-Curricular Participation
 - Extra-Curricular Participation
 - Locally Defined Outcome
- 3 Postsecondary-Ready Competencies
Meet *at least one* of these competencies.
 - Honors Diploma
academic or technical
 - SAT
reading/writing = 480, math = 530
 - ACT
english = 18, reading = 22, math = 22, science = 23 (2 out of 4 needed with at least one in English/Reading and one in Math/Science)
 - ASVAB
minimum of 31
 - Industry Certification
certification from approved DWD list
 - Apprenticeship
federally recognized
 - CTE Concentrator
C average or higher in at least 2 advanced HS courses in a state-approved CTE Pathway
 - AP/IB/Dual Credit/
Cambridge International/CLEP
C average or higher in 3 courses (1 of the 3 courses must be in core content area or all three must be part of a CTE pathway)
 - Locally Created Pathway
approved by SBOE
 - Waiver
see listed web link

TRACKING

- 1 Transcript with Completed Courses
 - 2 Work Toward Completion of One of the Experiences *Below*
 - 3 Course Selection, Graduation Plan, & Testing Opportunities
- Project-Based Experience**
Allows students to gain knowledge and skills by working for an extended period of time to investigate and respond to an authentic, engaging, and complex question.

Service-Based Experience
Integrates academic study with service experience, reflects larger social, economic, and societal issues, and collaborative efforts between students, schools, and community partners.

Work-Based Experience
Activities that occur in a workplace while developing the student's skills, knowledge, and readiness for work.

HONORS PROGRAM POLICIES AND PROCEDURES

Monroe Central Jr./Sr. High School offers Honors classes in English, Social Studies, Science and an accelerated program in mathematics. These courses are advanced, rigorous courses. They are designed for those students who need academic challenges. They are designed to contain new and challenging material, stimulate thinking, and to teach the skills necessary to become a self-directed learner.

All sixth grade students are screened in the spring for possible invitation into Honors as seventh graders. This screening consists of standardized test results, teacher recommendation, academic performance, and either a placement test or writing sample.

Those students who qualify as seventh graders and meet the performance standards will remain in the Honors classes if they so desire. Entering the Honors classes beyond the seventh grade will be done through the counselor's office. A student, parent, or teacher may request admission. Data will be collected on these individuals and reviewed by the classroom teacher, the guidance counselor, and possibly the high school principal. Admission will be granted or denied and students and parents will be notified. There is an appeal process that can be followed if further consideration is deemed necessary.

Students have to maintain a B average, per quarter. Two consecutive of quarters below B average will be removed from Honor courses.

PRACTICE COLLEGE ADMISSIONS TEST - PSAT

College Board's PSAT test is given in the fall of the sophomore or junior year. The results of this test are also used to determine a student's eligibility for the National Merit Scholarship Program. The PSAT serves as an indicator of potential success in AP, ACP, and Ivy Tech courses.

ARMED SERVICES VOCATIONAL APTITUDE BATTERY (ASVAB)

The ASVAB is a test that is given to students interested in joining the military. It is a test that measures a student's readiness to become proficient in a certain type of work (aptitude). Through the ASVAB test, students qualify for various training opportunities in the military, many of which have related occupations in civilian life. The ASVAB also includes a career interest inventory and serves as an indicator of potential success in AP and ACP courses.

SCHEDULE SAT OR ACT TEST(S)

First test should be taken no later than the spring of your junior year. See Student Services for testing opportunities.

SAT – www.sat.collegeboard.org

ACT – www.actstudent.org

INDIANA STATE APPROVED COURSE TITLES AND DESCRIPTIONS GENERAL INTRODUCTION

The 2018-19 edition of the Indiana Department of Education's State Approved Course Titles and Descriptions list are course titles and descriptions that have been approved for schools to use during the 2017-18 school year.

Course descriptions provide brief statements of the content of high school courses. These descriptions are intended to assist schools in communicating, in a broad context, the content and Indiana Academic Standards of state approved course titles.

Code numbers and titles listed for each course description must be used when reporting courses on Indiana Department of Education documents and should be used on student transcripts as well.

Instructional decisions related to curriculum selection and development, implementation, and assessment are left to local school corporations. In fact, Indiana schools may explore, develop, and implement activities and programs that go beyond these descriptions as they strive to prepare their students for life in an ever-changing society. Indiana State Board of Education rules and the School Improvement Plan required by Public Law 221 provide avenues for gaining approval of well-planned, non-standard programs and courses. School corporations may apply for a non-standard course waiver if the course or program is not listed in this document. Look for the links under "Non-Standard Course Request" at <http://www.doe.in.gov/achievement/ccr/course-titles-and-descriptions>

Additionally, information about teacher licensing for each course can be found at <http://www.doe.in.gov/licensing/what-can-i-teach-my-indiana-license>

Please note these other important details:

- Per 511 IAC 6.1-5-4.5, the course titles listed in this document, along with approved non-standard course waivers, are the only course titles that may be offered for high school credit in order to meet the graduation requirements established by the Indiana State Board of Education under 511 IAC 6-7 and 511 IAC 6-7.1.
- Course descriptions provide guidance for Indiana schools as they develop instructional strategies, create classroom resources, and revise the descriptions to meet local needs. In order to meet minimum graduation requirements, the expectations of Core 40, and the requirements of the Honors diplomas, course descriptions are consistent with the Indiana Academic Standards for each course.
 - The Certificate of Completion course of study must be followed (effective for the student cohort starting in school year 2018/2019) if a student with an IEP has been removed from a diploma path. The Certificate of Completion provides increased access to the general education curriculum by providing flexibility in earning either credits or applied units in general education and /or special education classes. The Certificate of Completion can be earned through any combination of applied units and credits.
 - For additional information, see the Certificate of Completion Resources webpage (DOE) at <http://www.doe.in.gov/student-services/student-assistance/coc>
- The maximum number of credits that may be granted for each course is listed in the course description bullets. Generally, one credit is awarded per semester except as noted. Course description bullets identify those courses in which students may receive credit for successive semesters of instruction.

- Required and recommended prerequisites are listed for some courses. Local schools and districts may require additional prerequisites.
- A laboratory course, identified by (L) in these course descriptions, is one in which a "minimum of twenty-five percent (25%) of the total instructional time is devoted to laboratory activities. Laboratory activities are those activities in which the pupil personally uses appropriate procedures and equipment in accomplishing that learning task."
- Schools may designate a course as Honors when the course content is significantly more rigorous than the state approved course. Honors level courses must be based on Indiana Academic Standards, have defined criteria for student admission to the course as well as clear expectations of student outcomes. Honors level courses must include a culminating Honors project that reflects understanding of the course titles should include an "H" or the word "Honors" in the title.
- The Indiana State Board of Education does not restrict high school credit to course work completed in Grades 9 through 12. Schools may elect to award high school credit to students who complete high school courses before entering Grade 9 if the course is fully equivalent to its high school counterpart. Local policies and procedures should be developed to govern credit for high school courses taught below Grade 9.
- Multiple credits may not be awarded for the same course unless the course description permits multiple credits to be awarded.
- AP, IB, and College credit courses appear only in their respective section and are not repeated in content area sections.

Agricultural Education Department

AGRICULTURE POWER, STRUCTURE AND TECHNOLOGY 5088P (AG POW) (POWER) AGRI 106 (3 cr.) / IVY TECH 106

Agriculture Power, Structure and Technology is a two semester, up to six credits, lab intensive course in which students develop an understanding of basic principles of tool selection, operation, maintenance, and management of agricultural equipment in concert with the utilization of technology. Topics covered include: safety, problem-solving/troubleshooting, electricity, plumbing, concrete, carpentry, metal technology, engines, emerging technologies, leadership development, supervised agricultural experience, and career opportunities in the area of agriculture power, structure, and technology.

- Recommended Grade: 10, 11
- Required Prerequisites: Principles of Agriculture
- Recommended Prerequisites: Introduction to Agriculture, Food and Natural Resources · Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum
- Counts as a directed elective or elective for all diplomas

ANIMAL SCIENCE 5008 (ANML SCI) / IVY TECH 103

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

- Recommended Grade: 10, 11
- Required Prerequisites: Principles of Agriculture
- Recommended Prerequisites: Introduction to Agriculture, Food and Natural Resources · Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum
- Counts as a directed elective or elective for all diplomas
- Fulfills a science course requirement for all diplomas
- Fulfills a physical science requirement for General Diploma

HORTICULTURE SCIENCE 5132 (HORT SCI) / IVY TECH 116

Horticulture Science is a two semester course that provides students with a background in the field of horticulture. Coursework includes hands-on activities that encourage students to investigate areas of horticulture as it relates to the biology and technology involved in the production, processing, and marketing of horticultural plants and products. Students are introduced to the following areas of horticulture science: reproduction and propagation of plants, plant growth, growth-media, management practices for field and greenhouse production, marketing concepts, production of plants of local interest, greenhouse management, floral design, and pest management. Students participate in a variety of activities including extensive laboratory work usually in a school greenhouse.

- Recommended Grade: 10, 11, 12
- Required Prerequisites: Principles of Agriculture
- Recommended Prerequisites: Introduction to Agriculture, Food and Natural Resources · Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum
- Counts as a directed elective or elective for all diplomas.
- Fulfills a Life Science or Physical Science requirement for the General Diploma

SUPERVISED AGRICULTURAL EXPERIENCE 5228 (SAE)

Supervised Agricultural Experience (SAE) is designed to provide students with opportunities to gain experience in the agriculture field(s) in which they are interested. Students will experience and apply what is learned in the classroom, laboratory and training site to real-life situations with a standards-based plan for learning. Students work closely with their agriculture teacher(s), parents and/or employers to get the most out of their SAE program. This course can be offered each year as well as during the summer session. Curriculum content and competencies need to be varied so that school year and summer session experiences are not duplicative.

- Grade Levels: 9, 10, 11, 12
- Recommended Prerequisite: Introduction to Agriculture, Food and Natural Resources
- Credits: 1 semester course, 1 credit per semester, 8 credits maximum
- Curriculum content and standards-based plan for learning should not be duplicated when this course is taken for multiple semesters.

Principles of Agriculture 7117 PRIN AG

Principles of Agriculture is a two-semester course that will cover the diversity of the agricultural industry and agribusiness concepts. Students will develop an understanding 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.

- Recommended Grade: 9, 10, 11
- Required Prerequisites: none
- Recommended Prerequisites: none
- Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum
- Counts as a directed elective or elective credits for all diplomas

AGRIBUSINESS MANAGEMENT 5002 (AG BUS MGMT) / AGRI 102 (3 cr.) / IVY TECH 102

Agribusiness Management provides foundation concepts in agricultural business. It is a two semester course that introduces students to the principles of business organization and management from a local and global perspective, with the utilization of technology. Concepts covered in the course include; accounting and record keeping, business planning and management, food and fiber, forms of business, finance, management, sales and marketing, careers, leadership development. Students will demonstrate principles and techniques for planning, development, application and management of agribusiness systems through a supervised agriculture experience (work based learning) programs.

- Grade Level: 11, 12
- Recommended Prerequisites: Introduction to Agriculture, Food and Natural Resources
- Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum
- Counts as an Elective or Directed Elective for all diplomas
- Qualifies as a quantitative reasoning course

ADVANCED LIFE SCIENCE: ANIMALS (L) 5070 (ALS ANIML) / AGRI 107 (3 cr.) / IVY TECH 107

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

- Recommended Grade: 11, 12
- Required Prerequisites: Principles of Agriculture

- Recommended Prerequisites: Introduction to Agriculture; Animal Science; Food and Natural Resources; Biology; Chemistry; Integrated Chemistry Physics
- Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum
- Counts as an elective or directed elective for all diplomas.
- Fulfills a science requirement for all diplomas.
- Qualifies as a quantitative reasoning course

Greenhouse and Soilless Production 7114 (GRN S PROD)

Greenhouse and Soilless Production is a two-semester course that provides an overview of structural designs and uses of enclosed structures (greenhouses) to grow various plants and food. The course will focus on discussing different types of enclosed structures, management systems, and growing systems used to produce plants and food. The course will also present an overview of soilless growing systems such as hydroponics, aquaponics, aeroponics and fogponics. Students will utilize the school greenhouse as part of this course.

- Recommended Grade: 10, 11, 12
- Required Prerequisites: Principles of Agriculture
- Recommended Prerequisites: none
- Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum
- Counts as a directed elective or elective credits for all diplomas

Agriculture Structures Fabrication and Design 7112 (AG ST FAB DES)

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

- Recommended Grade: 10, 11, 12
- Required Prerequisites: Principles of Agriculture
- Recommended Prerequisites: none
- Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum
- Counts as a directed elective or elective credits for all diplomas

Precision Agriculture 7116 PREC AG

Precision Agriculture describes the purpose and concepts of precision agriculture and precision farming through classroom and lab-based instruction. It involves understanding and operation of the various precision agriculture tools including GPS, GIS, and VRT. Students will learn how to collect data, analyze data and use the information to make decisions. Provides an understanding and justifications that demonstrate the economic and environmental benefits of precision agriculture. The Precision Agriculture course also incorporates the use of UAVs. Students will demonstrate UAV competency and handling in order to achieve the Part 107 UAS certification.

- Recommended Grade: 10, 11, 12
- Required Prerequisites: Principles of Agriculture
- Recommended Prerequisites: none
- Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum
- Counts as a directed elective or elective credits for all diplomas

Crop Management 7113 CROP MAN

Crop Management will provide an understanding of plant nutrient requirements and how to provide for those needs to achieve efficient crop production through classroom and lab-based instruction. Students will understand proper fertilizer materials, application methods and techniques. Instruction on soil analysis by demonstrating proper soil testing techniques which will be used to create fertility plans for proposed crops. Integrated pest management and the evaluation of various pest controls with minimal impact on the environment will also be an emphasis of the course.

- Recommended Grade: 10, 11, 12
- Required Prerequisites: Principles of Agriculture
- Recommended Prerequisites: none
- Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum
- Counts as a directed elective or elective credits for all diplomas

Information Technology Department

RADIO AND TELEVISION I 5986 (RAD TV I) (LOCATION UNION CITY)

Radio and Television I focuses on communication, media and production. Emphasis is placed on career opportunities, production, programming, promotion, sales, performance, and equipment operation. Students will also study the history of communication systems as well as communication ethics and law. Students will develop oral and written communication skills, acquire software and equipment operation abilities, and integrate teamwork skills. Instructional strategies may include a hands-on school-based enterprise, real and/or simulated occupational experiences, job shadowing, field trips, and internships.

- Grade Level: 11, 12
- Recommended Prerequisites: Introduction to Communications
- Credits: 2 semester course, 2 semesters required, 1-3 credits per semester, 6 credits maximum
- Counts as a Directed Elective or Elective for all diplomas

RADIO AND TELEVISION II 5992 (RAD TV II) (LOCATION UNION CITY)

Radio and Television II prepares students for admission to television production programs at institutions of higher learning. Students train on professional equipment creating a variety of video projects. During this second-year program students integrate and build on first-year curriculum while mastering advanced concepts in production, lighting and audio.

- Grade Level: 12
- Required Prerequisites: Radio and Television I
- Credits: 2 semester course, 2 semesters required, 1-3 credits per semester, 6 credits maximum
- Counts as a Directed Elective or Elective for all diplomas

Family and Consumer Sciences Department

PREPARING FOR COLLEGE AND CAREERS 5394 (PREP CC)

Preparing for College and Careers addresses the knowledge, skills, and behaviors all students need to be prepared for success in college, career, and life. The focus of the course is the impact of today's choices on tomorrow's possibilities. Topics to be addressed include twenty first century life and career skills; higher order thinking, communication, leadership, and management processes; exploration of personal aptitudes, interests, values, and goals; examining multiple life roles and responsibilities as individuals and family members; planning and building employability skills; transferring school skills to life and work; and managing personal resources. This course includes reviewing the 16 national career clusters and Indiana's College and Career Pathways, in-depth investigation of one or more pathways, reviewing graduation plans, developing career plans, and developing personal and career portfolios. A project-based approach, including computer and technology applications, cooperative ventures between school and community, simulations, and real life experiences, is recommended.

- Grade Level: 9, 10, 11, 12
- Recommended Prerequisites: None
- Credits: 1 semester course, 1 credit per semester, 1 credit maximum
- Qualifies as one of the FACS courses a student can take to waive the Heath & Wellness graduation requirement. To qualify for a waiver, a student must take three of the approved courses. For more information, please see 511 IAC 6-7.1-4(c) (6).
- Counts as a Directed Elective or Elective for all diplomas

Principles of Teaching 7161 PRIN TEACH

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

- Recommended Grade: 9, 10, 11
- Required Prerequisites: none
- Recommended Prerequisites: none
- Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum
- Counts as a directed elective or elective for all diplomas

Child and Adolescent Development 7157 CHLD ADL DEV

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.

- Recommended Grade: 10, 11, 12
- Required Prerequisites: Principles of Teaching
- Recommended Prerequisites: none
- Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum
- Counts as a directed elective or elective for all diploma

The Exceptional Child 7162 EXC CHILD

This course provides an introduction to teaching the exceptional child. Includes theories and practices for producing optimal developmental growth. This course develops teaching techniques, explores public policy, inclusion, early intervention, and learns about individual education plans and associated laws (IEPs). Explores the types of special needs and provides opportunities through field experience to practice methods for helping children within special education and gifted/talented programs. A volunteer experience of up to 20 hours in an educational environment may be required as part of this course.

- Recommended Grade: 10, 11, 12
- Required Prerequisites: Principles of Teaching; and Child and Adolescent Development · Recommended Prerequisites: none
- Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum
- Counts as a directed elective or elective for all diplomas

Principles of Human Services 7176 PRIN HUM SERV

Principles of Human Services explores the history of human services, career opportunities, and the role of the human service worker. Focuses on target populations and community agencies designed to meet the needs of various populations. Course includes a required job shadowing project in a Human Services setting. This course will also encourage cultural awareness and appreciation of diversity. Focuses on cultural variations in attitudes, values, language, gestures, and customs. Includes information about major racial and ethnic groups in the United States.

- Recommended Grade: 9, 10, 11
- Required Prerequisites: none
- Recommended Prerequisites: none
- Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum
- Counts as a directed elective or elective for all diplomas

Relationships and Emotions 7177 REL EMO

Relationship & Emotions examines the key elements of healthy relationships. Explores the main problems that damage relationships. Presents research findings on successful and unsuccessful relationships. Examines how couples can improve intimacy, romance, and emotional connection. Explores the impact of one's emotional and relationship history on current and future romantic relationships. Presents practical, scientific-based skills for improving relationships. Additionally this course offers practical and useful information for people who have experienced loss. Students have the opportunity to evaluate their own experiences and attitudes toward loss and grief.

- Recommended Grade: 10, 11, 12
- Required Prerequisites: Principles of Human Services
- Recommended Prerequisites: none
- Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum
- Counts as a directed elective or elective for all diplomas

Disability Services 7174 DIS SERV

Disability Services provides background knowledge of the field of intellectual and developmental disabilities and issues pertaining to the field. It covers topics such as: Historical development, Service availability and approaches to intellectual and developmental disabilities, Disability ranges and assessment, Availability of community resources and help, and Social, legal and ethical issues.

- Recommended Grade: 10, 11, 12
- Required Prerequisites: Principles of Human Services
- Recommended Prerequisites: none
- Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum
- Counts as a directed elective or elective for all diplomas

EDUCATION PROFESSIONS II (ED PROF II)

Education Professions II prepares students for employment in education and related careers and provides the foundation for study in higher education in these career areas. An active learning approach that utilizes higher order thinking, communication, leadership, and management processes is recommended in order to integrate suggested topics into the study of education and related careers. The course of study includes, but is not limited to: the teaching profession, the learner and the learning process, planning instruction, learning environment, and instructional and assessment strategies. Extensive field experiences in one or more classroom settings, resumes, and career portfolios are required components. A standards-based plan guides the students' field experiences. Students are monitored in their field experiences by the Education Professions II teacher. Articulation with post-secondary programs is encouraged. • Recommended Grade: 12

- Required Prerequisites: Education Professions I
- Recommended Prerequisites: none
- Credits: 2 semester course, 2 semesters required, 1-3 credits per semester, 6 credits maximum
- Counts as a Directed Elective or Elective for all diplomas

HUMAN AND SOCIAL SERVICES II 5462 (HUMN SRVS II)

Human and Social Services II is a core component of the Family and Human Services pathway. The course prepares students for occupations and higher education programs related to assisting individuals and families in meeting their potential. Through Work-based experiences, students apply the knowledge and skills developed in the Human Services Foundations course. Concentration areas include family and social services, youth development, and adult and elder care. Ethical, legal, and safety issues, as well as helping processes and collaborative ways of working with others, will be addressed. Learning experiences will 133 Indiana Department of Education High School Course Titles and Descriptions involve analysis of the influence of culture and socioeconomic factors on individual choices and opportunities, service delivery models, and theoretical perspectives. Intensive laboratory/field experiences in one or more human social service agencies are a required component of this course. Student laboratory/field experiences may be either school-based, if available, or "on the job" in community-based agencies, or a combination of the two. A standards-based plan guides the students' laboratory/field experiences. Students are monitored in their laboratory/field experiences by the Human and Social Services II teacher. Achievement of applicable standards will be documented through a student portfolio. Articulation with post-secondary programs is encouraged.

- Recommended Grade: 12
- Required Prerequisites: Human and Social Services I
- Recommended Prerequisites: none
- Credits: 2 semester course, 2 semesters required, 1-3 credits per semester, 6 credits maximum
- Counts as a Directed Elective or ~~Elective~~ for all diplomas

BUSINESS, MARKETING, AND ENTREPRENEURSHIP

ADVANCED ACCOUNTING 4522 (ADV ACC)

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

- Recommended Grade: 11, 12
- Required Prerequisites: Introduction to Accounting
- Recommended Prerequisites: none 100 Indiana Department of Education High School Course Titles and Descriptions
- Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum
- Counts as a Directed Elective or Elective for all diplomas
- Qualifies as a quantitative reasoning course

Accounting Fundamentals 4524 (INTO ACCT)

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

- Recommended Grade: 10, 11, 12
- Required Prerequisites: none
- Recommended Prerequisites: none
- Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum
- Counts as a directed elective or elective all diplomas

Principles of Business 7152 (PRIN BUS)

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.

- Recommended Grade: 9, 10, 11
- Required Prerequisites: none
- Recommended Prerequisites: none
- Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum
- Counts as a directed elective or elective for all diplomas

Business Administration Fundamentals 7143 (BUS ADM FUN)

Business Administration Fundamentals describes the functions of managers, including the management of activities and personnel. Students will also study key Marketing concepts including environmental analysis, marketing research, consumer behavior, segmenting, targeting, positioning, branding, product management, price strategy, supply chain management, integrated marketing communications, and market analytics. Students will be asked to apply management and marketing principles through the development of a business plan.

- Recommended Grade: 10, 11, 12
- Required Prerequisites: Principles of Business
- Recommended Prerequisites: none
- Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum
- Counts as a directed elective or elective for all diplomas

COMPUTER SCIENCE I 4801 (COM SCI I)

Computer Science I introduces the structured techniques necessary for the efficient solution of business related computer programming logic problems and coding solutions into a high-level language. The fundamental concepts of programming are provided through explanations and effects of commands and hands-on utilization of lab equipment to produce accurate outputs. Topics include program flow-charting, pseudo coding, and hierarchy charts as a means of solving problems. The course covers creating file layouts, print charts, program narratives, user documentation, and system flowcharts for business problems; algorithm development and review, flowcharting, input/output techniques, looping, modules, selection structures, file handling, control breaks, and offers students an opportunity to apply skills in a laboratory environment.

- Recommended Grade: 10, 11, 12
- Required Prerequisites: none
- Recommended Prerequisites: Introduction to Computer Science
- Credits: 2 semester course, 2 semesters required, 1-3 credits per semester, 6 credits maximum
- Counts as a Directed Elective or Elective for all diplomas
- Fulfills a science course requirement for all diplomas
- Qualifies as a quantitative reasoning course 5236

COMPUTER SCIENCE II (CS II PROG)

Computer Science II explores and builds skills in programming and a basic understanding of the fundamentals of procedural program development using structured, modular concepts. 67 Indiana Department of Education High School Course Titles and Descriptions Coursework emphasizes logical program design involving user-defined functions and standard structure elements. Discussions will include the role of data types, variables, structures, addressable memory locations, arrays and pointers, and data file access methods. An emphasis on logical program design using a modular approach, which involves task-oriented program functions.

- Recommended Grade: 11, 12 146 Indiana Department of Education High School Course Titles and Descriptions
- Required Prerequisites: Computer Science I
- Recommended Prerequisites: none
- Credits: 2 semester course, 2 semesters required, 1-3 credits per semester, 6 credits maximum
- Counts as a Directed Elective or Elective for all diplomas
- Fulfills a science course requirement for all diplomas
- Qualifies as a quantitative reasoning course

Fine Arts Department / Art

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

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

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

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

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

- Grade Level: 9, 10, 11, 12
- Recommended Prerequisites: Introduction to Two-Dimensional Art (L)
- Credits: 1 semester course, 1 credit per semester
- Counts as a Directed Elective or Elective for all diplomas
- Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma
- Laboratory Course

DRAWING (L) 4060 (DRAWING)

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

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

PAINTING (L) 4064 (PAINTING)

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

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

PHOTOGRAPHY (L) 4062 (PHOTOGRPH)

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

- Recommended Grade: 10, 11, 12
- Required Prerequisites: none
- Recommended Prerequisites: Introduction to Two-Dimensional Art (L)
- Credits: 1-semester course, 1 credit per semester. The nature of this course allows for successive semesters of instruction at an advanced level provided that defined proficiencies and content standards are utilized.
- Counts as a Directed Elective or Elective for all diplomas
- Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma
- Laboratory course

SCULPTURE (L) 4044 (SCULPT)

Sculpture is a course based on the Indiana Academic Standards for Visual Art. Students in sculpture engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production. Using materials such as plaster, clay, metal, paper, wax, and plastic, students create portfolio quality works. Students at this level produce works for their portfolios that demonstrate a sincere desire to explore a variety of ideas and problems. They create realistic and abstract sculptures utilizing subtractive and additive processes of carving, modeling, construction, and assembling. 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.

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

Fine Arts Department / Music

BEGINNING CONCERT BAND (L) 4160 (BEG BAND)

Beginning Concert Band is based on the Indiana Academic Standards for High School Instrumental Music. Students taking this course are provided with a balanced comprehensive study of music through the concert band, which develops skills in the psychomotor, cognitive, and affective domains. Ensemble and solo activities are designed to develop elements of musicianship including tone production, technical skills, intonation, music reading skills, listening skills, analyzing music, studying historically significant styles of literature, and integration of other applicable disciplines. Experiences include improvising, conducting, playing by ear, and sight-reading. Students develop the ability to understand and convey the composer's intent in performance of music. Time outside of the school day may be scheduled for rehearsals and performances. A limited number of public performances may serve as a culmination of daily rehearsal and musical goals. Students are required to participate in performance opportunities outside of the school day that support and extend learning in the classroom.

- Grade Level: 9, 10, 11, 12
- Recommended Prerequisites: none
- Credits: 1 semester course, 1 credit per semester. The nature of this course allows for successive semesters of instruction at an advanced level provided that defined proficiencies and content standards are utilized.
- Counts as a Directed Elective or Elective for all diplomas
- Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma
- Laboratory course

INTERMEDIATE CONCERT BAND (L) 4168 (INT BAND)

Intermediate Concert Band is based on the Indiana Academic Standards for High School Instrumental Music. This course includes a balanced comprehensive study of music that develops skills in the psychomotor, cognitive, and affective domains. Ensemble and solo activities are designed to develop elements of musicianship including tone production, technical skills, intonation, music reading skills, listening skills, analyzing music, studying historically significant styles of literature, and integration of other applicable disciplines. Students study a varied repertoire of developmentally appropriate concert band literature and develop the ability to understand and convey the composer's intent in performance of music. Time outside of the school day may be scheduled for rehearsals and performances. A limited number of public performances may serve as a culmination of daily rehearsal and musical goals. Students are required to participate in performance opportunities outside of the school day that support and extend learning in the classroom.

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

BEGINNING CHORUS (L) 4182 (BEG CHOR)

Beginning Chorus is based on the Indiana Academic Standards for High School Choral Music. Students taking Beginning 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.

- Grade Level: 9, 10, 11, 12
- Recommended Prerequisites: none
- Credits: 1 semester course, 1 credit per semester. The nature of this course allows for successive semesters of instruction at an advanced level provided that defined proficiencies and content standards are utilized.
- Counts as a Directed Elective or Elective for all diplomas
- Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma
- Laboratory course

INTERMEDIATE CHORUS (L) 4186 (INT CHOR)

Intermediate Chorus is based on the Indiana Academic Standards for High School Choral Music. Students taking Intermediate 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.

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

INSTRUMENTAL ENSEMBLE (L) 4162 (INSTR ENS)

Instrumental Ensemble is based on the Indiana Academic Standards for High School Instrumental Music. Students taking this course are provided with a balanced comprehensive study of chamber ensemble and solo literature, which develops skills in the psychomotor, cognitive and affective domains. Students develop and refine elements of musicianship including tone production, technical skills, intonation, music reading skills, listening skills, analyzing music, studying historically significant styles of literature as pertaining to chamber ensemble and solo literature, and integration of other applicable disciplines. Experiences include improvising, conducting, playing by ear, and sight-reading. Students develop the ability to understand and convey the composer's intent in performance of music. Time outside of the school day may be scheduled for rehearsals and performances. A limited number of public performances may serve as a culmination of daily rehearsal and musical goals. Students are required to participate in performance opportunities outside of the school day that support and extend learning in the classroom.

- Grade Level: 10, 11, 12
- Recommended Prerequisites: none
- Credits: 1 semester course, 1 credit per semester. The nature of this course allows for successive semesters of instruction at an advanced level provided that defined proficiencies and content standards are utilized.
- Counts as a Directed Elective or Elective for all diplomas
- Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma
- Laboratory Course

Health and Physical Education Department

PHYSICAL EDUCATION I (L) 3542 (PHYS ED) (Coed/Boys and Girls)

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

- Grade Level: 9, 10, 11, 12
- Required Prerequisites: Grade 8 Physical Education
- Credits: 1 semester course, 1 credit per semester, 1 credit maximum
- Fulfills part of the Physical Education requirement for all diplomas
- Classes are co-educational unless the activity involves bodily contact or groupings based on an objective standard of individual performance developed and applied without regard to gender.
- Adapted physical education must be offered, as needed, in the least restricted environment and must be based upon an individual assessment.
- As a designated laboratory course, 25% of course time must be spent in activity.

PHYSICAL EDUCATION II (L) 3544 (PHYS ED II) (Coed/Boys and Girls)

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

- Grade Level: 9, 10, 11, 12
- Required Prerequisites: Physical Education I
- Credits: 1 semester course, 1 credit per semester, 1 credit maximum
- Fulfills part of the Physical Education requirement for all diplomas
- Classes are co-educational unless the activity involves bodily contact or groupings based on an objective standard of individual performance developed and applied without regard to gender.
- Adapted physical education must be offered, as needed, in the least-restricted environment and must be based upon an individual assessment.
- As a designated laboratory course, 25% of course time must be spent in activity.

ELECTIVE PHYSICAL EDUCATION (L) 3560 (ELECT PE)

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

- Grade Level: 10, 11, 12
- Recommended Prerequisites: Physical Education I and II
- Credits: 1 credit per semester, maximum of 8 credits
- Counts as an Elective requirement for all diplomas
- The nature of this course allows for successive semesters of instruction provided defined proficiencies and content standards are utilized.
- Classes are co-educational unless the activity involves bodily contact or groupings based on an objective standard of individual performance developed and applied without regard to gender.

HEALTH and WELLNESS EDUCATION 3506 (HLTHandWELL)

Health and Wellness, a course based on Indiana's Academic Standards for Health and Wellness and provides the basis to help students adopt and maintain healthy behaviors. Health education should contribute directly to a student's ability to successfully practice behaviors that protect and promote health and avoid or reduce health risks. Through a variety of instructional strategies, students practice the development of functional health information (essential concepts); determine personal values that support health behaviors; develop group norms that value a healthy lifestyle; develop the essential skills necessary to adopt, practice, and maintain health-enhancing behaviors. This course includes the application of priority areas in a planned, sequential, comprehensive health education curriculum. Priority areas include: promoting personal health and wellness, physical activity, and healthy eating; promoting safety and preventing unintentional injury and violence; promoting mental and emotional health, a tobacco free lifestyle and an alcohol- and other drug-free lifestyle; and promoting human development and family health. This course provides students with the knowledge and skills of health and wellness core concepts, analyzing influences, accessing information, interpersonal communication, decision-making and goal-setting skills, health-enhancing behaviors, and health and wellness advocacy skills.

- Grade Level: 9, 10, 11, 12
- Recommended Prerequisites: 8th grade health education
- Credits: 1 semester course, 1 credit per semester, 1 credit maximum
- Fulfills the Health and Wellness requirement for all diploma types

Language Arts Department

ENGLISH 9 / ENGLISH 9H 1002 (ENG 9)

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

- Grade Level: 9
- Recommended Prerequisites: none
- Credits: 2 semester course, 1 credit per semester
- Fulfills an English/Language Arts requirement for all diplomas

ENGLISH 10 / ENGLISH 10H 1004 (ENG 10)

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

- Grade Level: 10
- Recommended Prerequisites: English 9 or teacher recommendation
- Credits: 2 semester course, 1 credit per semester
- Fulfills an English/Language Arts requirement for all diplomas

ENGLISH 11 1006 (ENG 11)

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

- Grade Level: 11
- Recommended Prerequisites: English 9 and English 10 or teacher recommendation
- Credits: 2 semester course, 1 credit per semester
- Fulfills an English/Language Arts requirement for all diplomas

ENGLISH 12 1008 (ENG 12)

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 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.

- Grade Level: 12
- Recommended Prerequisites: English 9, English 10, and English 11 or teacher recommendation
- Credits: 2 semester course, 1 credit per semester
- Fulfills an English/Language Arts requirement for all diplomas

AMERICAN LITERATURE 1020 (AMER LIT)

American Literature, a course based on the Indiana Academic Standards for English/Language Arts, is a study of representative works and authors of the United States. Students read, analyze, evaluate, critique, and actively respond to a wide variety of literary genres that reflect American culture, including quality works of various ethnic and cultural minorities. Students compare readings and media from literature, history, and other subjects by demonstrating how the ideas and concepts presented in the works are interconnected, distinctly American, and important to an understanding of the development of the current culture. Course can be offered in conjunction with a composition course, or schools may embed Indiana Academic Standards for English/Language Arts writing standards within American Literature curriculum.

- Grade Level: 11, 12
- Recommended Prerequisites: English 9, English 10, or teacher recommendation
- Fulfills an English/Language Arts requirement for all diplomas
- Credits: 1 to 2 semester course, 1 credit per semester

**ADVANCED ENGLISH/LANGUAGE ARTS, COLLEGE CREDIT 1124 (ADV ENG CC) /
ACP / IU EAST ENG W131 / IU EAST ENG L202**

Advanced English/Language Arts, College Credit, is an advanced course based on the Indiana Academic Standards for English/Language Arts in grades 11 and 12. This course title covers any English language and composition advanced course offered for credit by an accredited post-secondary institution through an adjunct agreement with a secondary school.

- Grade Level: 11, 12
- Recommended Prerequisites: English 9 and English 10 or other literature, language, composition, and speech courses or teacher recommendation
- Credits: 1 semester course, 1 credit per semester. May be offered for successive semesters
- Fulfills an English/Language Arts requirement for all diplomas
- Courses that use this title are most often those taught through the post-secondary campus, taught either online or in traditional settings or a combination; and/or taught by higher education faculty.
- Courses that use this title are those that do not meet specific high school standards for a corresponding high school course, as they are standards beyond what is taught in the high school.

STUDENT MEDIA 1086 (STDNT MEDIA)

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.

- Grade Level: 9, 10, 11, 12
- Recommended Prerequisites: Journalism, Mass Media, or teacher recommendation
- Credits: 1 semester course, 1 credit per semester, 8 credits maximum. The nature of this course allows for successive semesters of instruction at advanced levels. May be offered over three or four years by titling the course Beginning, Intermediate, or Advanced.
- Counts as a Directed Elective or Elective for all diplomas
- Fulfills the Fine Arts requirement for the Core 40 with Academic Honors. NOTE: This is the designated School Media course, including newspaper and yearbook.

Mathematics Department

ALGEBRA I 2520 (ALG I)

Algebra I formalizes and extends the mathematics students learned in the middle grades. Algebra I is made up of 6 strands: Real Numbers and Expressions; Functions; Linear Equations, Inequalities, and Functions; Systems of Equations and Inequalities; Quadratic and Exponential Equations and Functions; and Data Analysis and Statistics. These critical areas deepen and extend understanding of linear and exponential relationships by contrasting them with each other and by applying linear models to data that exhibit a linear trend. Students will also engage in methods for analyzing, solving, and using quadratic functions. The eight Process Standards for Mathematics apply throughout the course. Together with the content standards, the Process Standards prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

- Grade Level: 9, 10, 11, 12
- Recommended Prerequisites: none
- Credits: 2 semester course, 1 credit per semester
- Counts as a Mathematics course for all diplomas
- Fulfills the Algebra I/Integrated Mathematics I requirement for all diplomas
- Students pursuing Core 40, Core 40 with Academics Honors, or Core 40 with Technical Honors diploma should receive credit for Algebra I by the end of Grade 9

GEOMETRY / GEOMETRY H 2532 (GEOM)

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

- Grade Level: 9, 10, 11, 12
- Recommended Prerequisites: Algebra I
- Credits: 2 semester course, 1 credit per semester
- Counts as a Mathematics course for all diplomas
- Fulfills the Geometry/Integrated Mathematics II requirement for the Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

ALGEBRA II / ALGEBRA II H 2522 (ALG II)

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

- Grade Level: 9, 10, 11, 12
- Recommended Prerequisite: Algebra I
- Credits: 2 semester course, 1 credit per semester
- Counts as a Mathematics course for all diplomas
- Fulfills the Algebra II/Integrated Mathematics III requirement for all diplomas

PRE-CALCULUS / TRIGONOMETRY 2564 (PRECAL) /**ACP IU EAST MATH-M25/125 Precalculus Mathematics (3 cr.) - Semester 1****ACP IU EAST MATH-M26/126 Trigonometric Functions (2 cr.) - Semester 2**

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

- Grade Level: 9, 10, 11, 12
- Recommended Prerequisite: Algebra II and Geometry or Integrated Mathematics III
- Credits: 1 semester course, 1 credit per semester
- Counts as a Mathematics course for all diplomas

ADVANCED MATHEMATICS, COLLEGE CREDIT 2544 (ADV MTH CC)**BALL STATE MATH 125 /****ACP IU EAST MATH M211/M215**

Advanced Mathematics, College Credit is a title covering (1) any advanced mathematics course (beyond Algebra II) that is offered for credit by an accredited post-secondary institution and is not a course offered in the Indiana State Approved Course Titles and Descriptions. A diverse course including statistics and other topics such as mathematical modeling, problem solving, finance, geometrical concepts, growth patterns, and applications to the physical sciences, social sciences, and economics. Core Transfer Library: Mathematics (IMA 1607) Recommended background: three years of college preparatory mathematics in high school.

- Grade Level: 9, 10, 11, 12
- Recommended Prerequisite: Algebra II or Integrated Mathematics III
- Credits: 1 semester course, 1 credit per semester. May be offered for successive semesters
- Counts as a Mathematics course for all diplomas
- Actual course title and university name may be appended to the end of the course title on the student transcript.
- Courses that use this title are most often those taught through the post-secondary campus, taught either online or in traditional settings or a combination; and taught by higher education faculty.
- Courses that use this title are those that do not meet specific high school standards for a corresponding high school course, as they are standards beyond what is taught in the high school.
- Qualifies as a quantitative reasoning course

CALCULUS 2527 (CALC)

Calculus expands a student's knowledge of topics like functions, graphs, limits, derivatives, and integrals. Additionally, students will review algebra and functions, modeling, trigonometry, etc. Calculus is made up of five strands: Limits and Continuity; Differentiation; Applications of Derivatives; Integrals; and Applications of Integrals. The eight Process Standards for Mathematics apply throughout the course. Together with the content standards, the Process Standards prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

- Grade Level: 11, 12
- Recommended Prerequisite: Pre-Calculus and Trigonometry
- Credits: 2 semester course, 1 credit per semester
- Counts as a Mathematics course for all diplomas

Multidisciplinary Course Descriptions

CADET TEACHING EXPERIENCE 0502 (CADET TCHG)

This elective course provides students in grades eleven (11) or twelve (12) organized exploratory teaching experiences in grades kindergarten (K) through grade nine (9). All teaching experiences should be preplanned by the high school Cadet Teaching Experience teacher-trainer and the cooperating teacher(s) who are supervising prospective teachers and providing them with pre-training experiences in one or more classes. This course provides a balance of class work relating to: (1) classroom organization, (2) classroom management, (3) the curriculum and instructional process, (4) observations of teaching, and (5) instructional experiences. Study topics and background reading provide the cadets with information concerning the teaching profession and the nature of the cadet teachers' assignments. Evaluation is based upon the cadet teachers' cooperation, day-to-day practical performance, and class work including the cadets' potential ability to teach. The total workload of the Cadet Teaching course is comparable to those for other subjects in the high school curriculum.

- Grade Level: 11, 12
- Recommended Prerequisites: None
- Credits: 1 credit per semester, up to 4 semesters, 4 credits maximum
- Cadet teaching experience for high school students is limited to grades kindergarten through grade nine
- Counts as a Directed Elective or Elective for all diplomas

CAREER EXPLORATION INTERNSHIP 0530 (CARR EXP)

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

- Grade Level: 11, 12
- Recommended Prerequisite: Preparing for College and Careers; Career Information and Exploration
- Credits: 1 semester course, 1-3 credits per semester, may be taken for multiple semesters
- This course may be taken for additional semesters to allow students to explore additional career areas.
- A minimum of 85 hours of workplace and classroom activities are required for one credit; 170 hours are required for the two credits. Of the 85 or 170 hours, 18 to 36 hours (at least 1 hour a week or the equivalent over a semester or year) must be spent in related classroom instruction. Schools on block schedules may proportionately adjust the total number of hours per week to meet the local standard, provided that students spend at least one hour a week in classroom activities.
- Counts as a Directed Elective or Elective for all diplomas
- This course is exploratory in nature and, as such, does not qualify for reimbursement under the career-technical (vocational) funding formula.

BASIC SKILLS DEVELOPMENT 0500 (BAS SKLS)

Basic Skills Development is a multidisciplinary course that provides students continuing opportunities to develop basic skills including: (1) reading, (2) writing, (3) listening, (4) speaking, (5) mathematical computation, (6) note taking, (7) study and organizational skills, and (8) problem-solving skills, which are essential for high school course work achievement. Determination of the skills to be emphasized in this course is based on Indiana's standards, individual school corporation general curriculum plans, and the student's Individualized Education Programs (IEP) or other individualized plans. Skills selected for developmental work provide students with the ability to continue to learn in a range of different life situations.

- Grade Level: 9, 10, 11, 12
- Recommended Prerequisites: None
- Credits: 1 credit per semester up to 8 semesters, 8 credits maximum
- Counts as an Elective for all diplomas

Science Department

ANATOMY AND PHYSIOLOGY 5276 (A & P)

Anatomy & Physiology is a course in which students investigate concepts related to Health Science, with emphasis on interdependence of systems and contributions of each system to the maintenance of a healthy body. It introduces students to the cell, which is the basic structural and functional unit of all organisms, and covers tissues, integument, skeleton, muscular and nervous systems as an integrated unit. Through instruction, including laboratory activities, students apply concepts associated with Human Anatomy & Physiology. Students will understand the structure, organization and function of the various components of the healthy body in order to apply this knowledge in all health related fields.

- Grade Level: 11,12
- Recommended Prerequisites: Biology
- Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum
- Counts as a Directed Elective or Elective for all diplomas
- Fulfills a Core 40 Science course requirement for all diplomas

BIOLOGY I / BIOLOGY H (L) 3024 (BIO I)

Biology I is a course based on the following core topics: cellular structure and function, matter cycles and energy transfer; interdependence; inheritance and variation in traits; evolution. Instruction should focus on developing student understanding that scientific knowledge is gained from observation of natural phenomena and experimentation, by designing and conducting investigations guided by theory, and by evaluating and communicating the results of those investigations according to accepted procedures.

- Grade Level: 9
- Recommended Prerequisites: none
- Credits: 2 semester course, 1 credit per semester
- Fulfills the Biology requirement for all diplomas

ADVANCED SCIENCE 3090 / ACP BIOLOGY II 3026 / IU EAST BIOL L100

Advanced Science, College Credit is a title that covers (1) any science course offered for credit by an accredited post-secondary institution through an adjunct agreement with a secondary school, or (2) any other post-secondary science course offered for dual credit under the provisions of 511 IAC 6-10.

- Grade Level: 11, 12
- Recommended Prerequisites: none
- Credits: 1 semester course, 1 credit per semester. May be offered for successive semesters
- Counts as a Science Course for all diplomas
- Courses that use this title are most often those taught through the post-secondary campus, taught either online or in traditional settings or a combination; and taught by higher education faculty.
- Courses that use this title are those that do not meet specific high school standards for a corresponding high school course, as they are standards beyond what is taught in the high school.
- Prerequisite: Must have taken Biology and Chemistry

CHEMISTRY I / CHEMISTRY I H (L) 3064 (CHEM I)

Chemistry I is a course based on the following core topics: properties and states of matter; atomic structure and the Periodic Table; bonding and molecular structure; reactions and stoichiometry; behavior of gases; thermochemistry; solutions; acids and bases. Students enrolled in Chemistry I compare, contrast, and synthesize useful models of the structure and properties of matter and the mechanisms of its interactions. Instruction should focus on developing student understanding that scientific knowledge is gained from observation of natural phenomena and experimentation, by designing and conducting investigations guided by theory, and by evaluating and communicating the results of those investigations according to accepted procedures.

- Grade Level: 10, 11, 12
- Recommended Prerequisite: Algebra II (can be taken concurrently)
- Credits: 2 semester course, 1 credit per semester
- Counts as an Elective for all diplomas

- Fulfills a science (physical) course requirement for all diplomas
- Qualifies as a quantitative reasoning course CHEMIST

CHEMISTRY II 3066 / IVY TECH CHEM 101 (3 cr.)

An introductory course that includes the science of chemistry and measurement, atomic theory and the periodic table, chemical bonding, equation writing and balancing, stoichiometry, gases and acids/bases. Includes lab.

PHYSICS I (L) 3084 (PHYS I)

Physics I is a course focused on the following core topics: constant velocity; constant acceleration; forces; energy; linear momentum in one dimension; simple harmonic oscillating systems; mechanical waves and sound; simple circuit analysis. Instruction should focus on developing student understanding that scientific knowledge is gained from observation of

natural phenomena and experimentation, by designing and conducting investigations guided by theory, and by evaluating and communicating the results of those investigations according to accepted procedures.

- Grade Level: 11, 12
- Recommended Prerequisites: Algebra I or II
- Credits: 2 semester course, 1 credit per semester
- Counts as an Elective for all diplomas
- Fulfills a science (physical) course requirement for all diplomas
- Qualifies as a quantitative reasoning course

INTEGRATED CHEMISTRY-PHYSICS (L) 3108 (ICP)

Integrated Chemistry-Physics is a course focused on the following core topics: constant velocity; uniform acceleration; Newton's Laws of motion (one dimension); energy; particle theory of matter; describing substances; representing chemical change; electricity and magnetism; waves; nuclear energy. Instruction should focus on developing student understanding that scientific knowledge is gained from observation of natural phenomena and experimentation by designing and conducting investigations guided by theory and by evaluating and communicating the results of those investigations according to accepted procedures.

- Grade Level: 10, 11, 12
- Recommended Prerequisite: Algebra I (may be taken concurrently with this course)
- Credits: A two credit course
- Counts as an Elective for all diplomas
- Fulfills a science (physical) course requirement for all diplomas
- Qualifies as a Quantitative Reasoning course
- Must be taken **before** Chemistry and Physics

EARTH AND SPACE SCIENCE I (L) 3044 (EAS SCI I)

Earth and Space Science I is a course focused on the following core topics: universe; solar system; Earth cycles and systems; atmosphere and hydrosphere; solid Earth; Earth processes. Students analyze and describe earth's interconnected systems and examine how earth's materials, landforms, and continents are modified across geological time. Instruction should focus on developing student understanding that scientific knowledge is gained from observation of natural phenomena and experimentation, by designing and conducting investigations guided by theory, and by evaluating and communicating the results of those investigations according to accepted procedures.

- Grade Level: 9, 10, 11, 12
- Credits: 2 semester course, 1 credit per semester
- Counts as an Elective for all diplomas
- Fulfills a science course requirement for all diplomas

ENVIRONMENTAL SCIENCE (L) 3010 (ENVSCI)

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

- Grade Level: 11, 12
- Recommended Prerequisites: Two credits science coursework
- Credits: 2 semester course, 1 credit per semester
- Counts as an Elective for all diplomas
- Fulfills a science (life) course requirement for all diplomas

Social Studies Department

GEOGRAPHY AND HISTORY OF THE WORLD 1570 (GEO-HST WLD)

Geography and History of the World is designed to enable students to use geographical tools, skills and historical concepts to deepen their understanding of major global themes including the origin and spread of world religions; exploration; conquest, and imperialism; urbanization; and innovations and revolutions. Geographical and historical skills include forming research questions, acquiring information by investigating a variety of primary and secondary sources, organizing information by creating graphic representations, analyzing information to determine and explain patterns and trends, planning for the future, and documenting and presenting findings orally or in writing. The historical geography concepts used to explore the global themes include change over time, origin, diffusion, physical systems, cultural landscapes, and spatial distribution/patterns and interaction/relationships. Students use the knowledge, tools, and skills obtained from this course in order to analyze, evaluate, and make predictions about major global developments. This course is designed to nurture perceptive and responsible citizenship, to encourage and support the development of critical thinking skills and lifelong learning, and to help prepare Indiana students for the 21st Century.

- Grade Level: 9, 10, 11, 12
- Recommended Prerequisites: none
- Credits: 2 semester course, 1 credit per semester
- Counts as a Social Studies requirement for the General Diploma
- Counts as an Elective for all diplomas
- Fulfills the Geography History of the World/World History and Civilization graduation requirement for the Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

WORLD HISTORY AND CIVILIZATION 1548 (WLD HST/CVL)

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

- Grade Level: 9, 10, 11, 12
- Recommended Prerequisites: none
- Credits: 2 semester course, 1 credit per semester
- Counts as an Elective for all diplomas
- Fulfills the Geography History of the World/World History and Civilization graduation requirement for all diplomas

UNITED STATES HISTORY 1542 (US HIST)

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

- Grade Level: 10, 11
- Recommended Prerequisites: none
- Credits: 2 semester course, 1 credit per semester
- Fulfills the US History requirement for all diplomas

**ADVANCED SOCIAL SCIENCES, COLLEGE CREDIT 1574 /
UNITED STATES HISTORY HONORS ACP / IU EAST H106**

(ADV SS CC) Advanced Social Sciences, College Credit is a title covering (1) any advanced social sciences course offered for credit by an accredited post-secondary institution through an adjunct agreement with a secondary school or (2) any other post-secondary social sciences course offered for dual credit under the provisions of 511 IAC 6-10.

- Grade Level: 11, 12
- Recommended Prerequisites: United States History or History and World Civilizations
- Credits: 1 semester course, 1 credit per semester. May be offered for successive semesters
- Counts as an Elective for all diplomas
- Courses that use this title are most often those taught through the post-secondary campus, taught either online or in traditional settings or a combination; and taught by higher education faculty.
- Courses that use this title are those that do not meet specific high school standards for a corresponding high school course, as they are standards beyond what is taught in the high school.

ECONOMICS 1514 (ECON)

Economics examines the allocation of resources and their uses for satisfying human needs and wants. The course analyzes economic reasoning and behaviors of consumers, producers, savers, investors, workers, voters, institutions, governments, and societies in making decisions. Students explain that because resources are limited, people must make choices and understand the role that supply, demand, prices, and profits play in a market economy. Key elements of the course include the study of scarcity and economic reasoning; supply and demand; market structures; the role of government; national economic performance; the role of financial institutions; economic stabilization; and trade.

- Grade Level: 12
- Recommended Prerequisites: none
- Credits: 1 semester course, 1 credit per semester
- Counts as an Elective for all diplomas
- Fulfills the Economics requirement for the Core 40, Core 40 with Academic Honors, Core 40 with Technical Honors and International Baccalaureate diplomas
- Fulfills a Social Studies requirement for the General Diploma only
- Qualifies as a quantitative reasoning course

UNITED STATES GOVERNMENT 1540 (US GOVT)

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

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

AP UNITED STATES GOVERNMENT AND POLITICS 1560 (US GOVT AP) / IVY TECH POLS 101

AP United States Government and Politics 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 U.S. Government and Politics provides a college-level, nonpartisan introduction to key political concepts, ideas, institutions, policies, interactions, roles, and behaviors that characterize the constitutional system and political culture of the United States. Students study U.S. foundational documents, Supreme Court decisions, and other texts and visuals to gain an understanding of the relationships and interactions among political institutions, processes, and behavior. They also engage in disciplinary practices that require them to read and interpret data, make comparisons and applications, and develop evidence-based arguments. In addition, they complete a political science research or applied civics project.

- Grade Level: 12
- Recommended Prerequisites: Students should be able to read a college level textbook and write grammatically correct sentences.
- Credits: 1 to 2 semester course, 1 credit per semester
- Fulfills the Government requirement for all diplomas

TOPICS IN SS 1550 (TOPICS SS)

HOLOCAUST /

HISTORY THROUGH FILM

Topics in Social Science provides students with an opportunity for in-depth study of a specific topic, theme, or concept in one of the social science disciplines such as anthropology, archaeology, economics, geography, political science, psychology, or sociology. It is also possible to focus the course on more than one discipline. A subtitle should be included to give a clear idea of the course content. For example, a course focusing on a specific in political science might be entitled, "Topics in Social Science: Comparative Government." Courses taught under this title should emphasize scientific methods of inquiry and help students develop effective research and thinking skills.

- Grade Level: 10, 11, 12
- Recommended Prerequisites: Freshmen **cannot** take Topics in SS-Holocaust
- Credits: 1 semester course, 1 credit per semester
- Counts as an Elective for all diplomas

INDIANA STUDIES 1518 (IN STUDIES)

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

political process. Selections from Indiana arts and literature may also be analyzed for insights into historical events and cultural expressions.

- Grade Level: 9, 10, 11, 12
- Recommended Prerequisites: none
- Credits: 1 semester course, 1 credit per semester
- Must be offered at least once per school year
- Counts as an Elective for all diplomas

ETHNIC STUDIES 1516 (ETH STUDIES)

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

- Grade Level: None
- Recommended Prerequisites: none
- Credits: 1 semester course, 1 credit
- Counts as an Elective for all diplomas
- Must be offered at least once per school year

PSYCHOLOGY 1532 (PSYCH) / IVY TECH PSYC 101 (3 cr.)

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

- Grade Level: none
- Recommended Prerequisites: none
- Credits: 1 to 2 semester course, 1 credit per semester
- Counts as an Elective for all diplomas

World Language Department

SPANISH I 2120 (SPAN I)

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

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

SPANISH II 2122 (SPAN II)

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

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

ADVANCED WORLD LANGUAGE, COLLEGE CREDIT 2152 (WLD LANG CC) /

SPANISH III 2124 / IU EAST HISP S200/203

SPANISH IV 2126 / IU EAST HISP S250/204

Advanced World Language, College Credit is a course covering (1) any advanced course offered for credit by an accredited post-secondary institution through an adjunct agreement with a secondary school, or (2) any other post-secondary world language course offered for dual credit under the provisions of 511 IAC 6-10.

- Grade Level: 11, 12
- Recommended Prerequisites: Levels I, II and III of the language
- Credits: 1 semester course, 1 credit per semester. May be offered for successive semesters
- Counts as a Directed Elective or Elective for all diplomas • Fulfills a World Language requirement for the Core 40 with Academic Honors Diploma
- Courses that use this title are most often those taught through the post-secondary campus, taught either online or in traditional settings or a combination; and taught by higher education faculty.
- Courses that use this title are those that do not meet specific high school standards for a corresponding high school course, as they are standards beyond what is taught in the high school.

CAREER INFORMATION AND EXPLORATION

JOBS FOR AMERICA'S GRADUATES 0509 (JAG)

Jobs for America's Graduates (JAG) is a state-based, national non-profit organization dedicated to preventing dropouts among young people who are most at-risk. JAG's mission is to keep young people in school through graduation and provide work-based learning experiences that will lead to career advancement opportunities or to enroll in a postsecondary institution that leads to a rewarding career. JAG students receive adult mentoring while in school and one year follow-up counseling after graduation. The JAG program is funded through grants provided by the Indiana Department of Workforce Development.

- Grade Level: 11,12
- Required Prerequisites: none
- Recommended Prerequisites: none
- Credits: 2-semester course, 1 credit per semester, 4 credits maximum
- Counts as an elective for all diplomas

VOCATIONAL OFFERINGS - WINCHESTER

Principles of Precision Machining 7109 (PRIN PREC MACH) (Winchester Location)

Principles of Precision Machining will instruct students in shop safety, industrial terminology, tools and machine tooling, measurement, and layout. Includes laboratory exercises to begin project completion of turning, milling, and grinding applications. This course incorporates certification assessment for the National Institute of Metalworking Skills Measurement, Materials and Safety, Job Planning, Benchwork, and Layout Certification. Applies mathematics in solving engineering and design related problems in the areas of die design, fabrication, assembly, special machinery, die casting and molds. Emphasizes geometric dimensioning and applying tolerances.

- Recommended Grade: 9, 10, 11
- Required Prerequisites: none
- Recommended Prerequisites: Introduction to Advanced Manufacturing · Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum
- Counts as a directed elective or elective for all diplomas

PRECISION MACHINING I 5782 (PCSN MACH I) (Winchester Location)

Precision Machining I provides students with a basic understanding of the precision machining processes used in industry, manufacturing, maintenance, and repair. The course instructs the student in industrial safety, terminology, tools and machine tools, measurement and layout. Students will become familiar with the setup and operation of power saws, drill presses, lathes, milling machines, grinders and an introduction to CNC (computer numerically controlled) machines.

- Grade Level: 11, 12
- Recommended Prerequisites: Introduction to Advanced Manufacturing
- Credits: 2 semester course, 2 semesters required, 1-3 credits per semester, 6 credits maximum
- Counts as a Directed Elective or Elective for all diplomas
- Qualifies as a quantitative reasoning course

PRECISION MACHINING II 5784 (PCSN MACH II) (Winchester Location)

Precision Machining II is a more in-depth study of skills learned in Precision Machining I, with a stronger focus in CNC setup/operation/programming. Classroom activities will concentrate on precision set-up and inspection work as well as machine shop calculations. Students will develop skills in advanced machining and measuring parts involving tighter tolerances and more complex geometry. A continued focus on safety will also be included.

- Grade Level: 12
- Required Prerequisites: Precision Machining I
- Credits: 2 semester course, 2 semesters required, 1-3 credits per semester; 6 credits maximum
- Counts as a Directed Elective or Elective for all diplomas
- Qualifies as a quantitative reasoning course

Precision Machining 7107 (PREC MACH) (Winchester Location)

Precision Machining introduces and instructs students in all aspects of Computer Numeric Control (CNC) machine operation and setup. The student will set up and operate CNC mills and lathes utilizing set-up, production, in-process inspection, and preventive maintenance methods similar to what the student may experience in the present day work environment. This course prepares students to take the NIMS Level I CNC operations certification.

- Recommended Grade: 10, 11, 12
- Required Prerequisites: Principles of Precision Machining; and Machining Fundamentals • Recommended Prerequisites: none
- Credits: 2 semester course, 2 semesters required, 1 credit per semester; 2 credits maximum
- Counts as a directed elective or elective for all diplomas
- Qualifies as a quantitative reasoning course

Machining Fundamentals 7105 (MACH FUN) (Winchester Location)

Machining Fundamentals instructs students in shop safety, industrial terminology, and provides laboratory experience toward project completion on the conventional lathe, vertical and/or horizontal milling machine, and abrasive processing machines, including super abrasive technology processes. This course incorporates certification assessment for the National Institute of Metalworking Skills Manual Milling Certification.

- Recommended Grade: 10, 11, 12
- Required Prerequisites: Principles of Precision Machining
- Recommended Prerequisites: none
- Credits: 2 semester course, 2 semesters required, 1 credit per semester; 2 credits maximum
- Counts as a directed elective or elective for all diplomas
- Qualifies as a quantitative reasoning course

Principles of Welding Technology 7110 (PRIN WEL TCH) (Winchester Location)

Principles of Welding Technology includes classroom and laboratory experiences that develop a variety of skills in oxy-fuel cutting and basic welding. This course is designed for individuals who intend to make a career as a Welder, Technician, Designer, Researcher, or Engineer. Emphasis is placed on safety at all times. OSHA standards and guidelines endorsed by the American

Welding Society (AWS) are used. Instructional activities emphasize properties of metals, safety issues, blueprint reading, electrical principles, welding symbols, and mechanical drawing through projects and exercises that teach students how to weld and be prepared for postsecondary and career success.

- Recommended Grade: 9, 10, 11
- Required Prerequisites: none
- Recommended Prerequisites: Introduction to Manufacturing
- Credits: 2 semester course, 2 semesters required, 1 credit per semester; 2 credits maximum
- Counts as a directed elective or elective for all diplomas

WELDING TECHNOLOGY I 5776 (WELD TECH I) (Winchester Location)

Welding Technology I includes classroom and laboratory experiences that develop a variety of skills in oxy-fuel cutting and Shielded Metal Arc welding. This course is designed for individuals who intend to make a career as a Welder, Technician, Sales, 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 college and career success.

- Grade Level: 11, 12
- Recommended Prerequisites: None
- Credits: 2 semester course, 2 semesters required, 1-3 credits per semester, 6 credits maximum
- Counts as a Directed Elective or Elective for all diplomas

WELDING TECHNOLOGY II 5778 (WELD TECH II) (Winchester Location)

Welding Technology II builds on the skills covered in Welding Technology I. 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 college and career success.

- Grade Level: 12
- Required Prerequisites: Welding Technology I
- Credits: 2 semester course, 2 semesters required, 1-3 credits per semester, 6 credits maximum
- Counts as a Directed Elective or Elective for all diplomas

Shielded Metal Arc Welding 7111 (SHLD MAW) (Winchester Location)

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

- Recommended Grade: 10, 11, 12
- Required Prerequisites: Principles of Welding Technology
- Recommended Prerequisites: none
- Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum
- Counts as a directed elective or elective for all diplomas

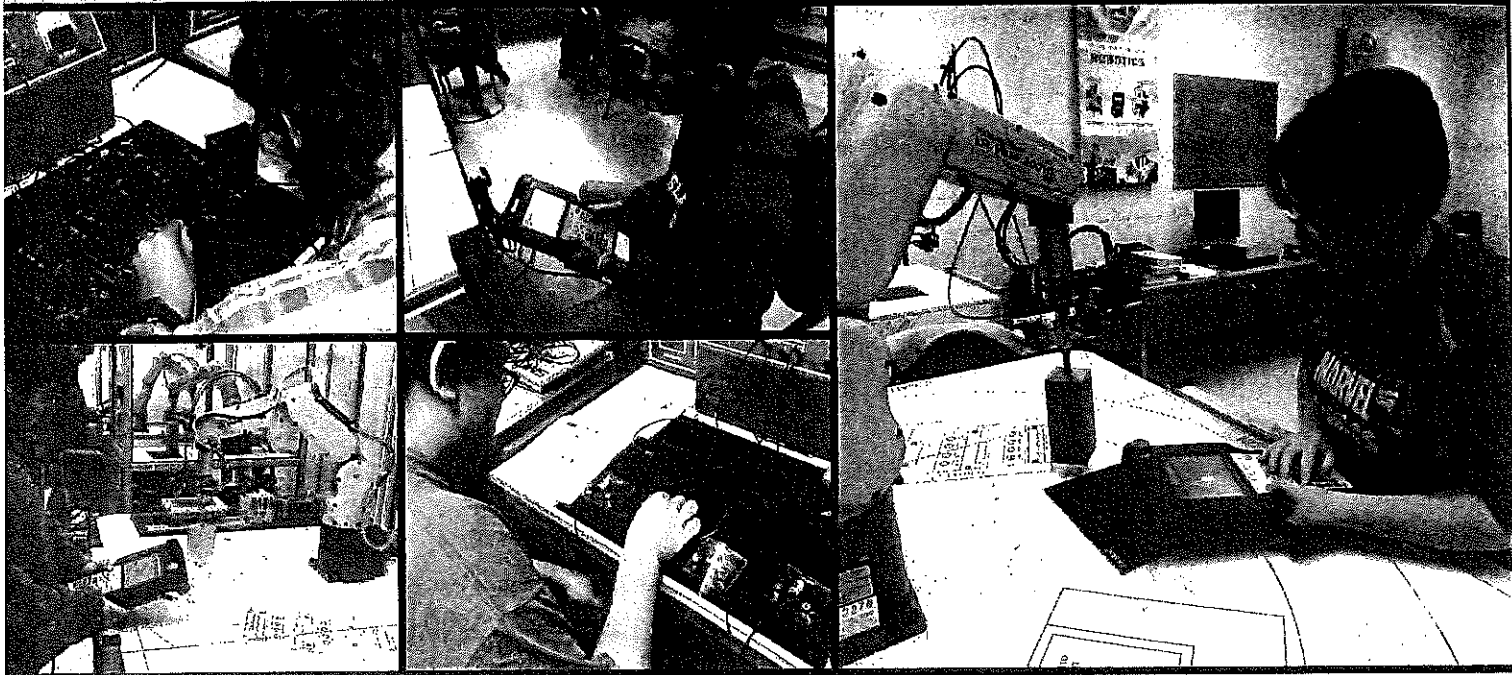
Gas Welding Processes 7101 (GAS WEL PRC) (Winchester Location)

A course designed to cover the operation of Gas Metal Arc Welding (MIG) equipment. This will include all settings, adjustments and maintenance needed to weld with a wire feed system. Instruction on both short-arc and spray-arc transfer methods will be covered. Tee, lap, and open groove joints will be done in all positions with solid, fluxcore, and aluminum wire. Test plates will be made for progress evaluation. Schools will have the option to introduce students to both MIG and TIG welding rather than focusing solely on MIG welding.

- Recommended Grade: 10, 11, 12
- Required Prerequisites: Principles of Welding Technology
- Recommended Prerequisites: none
- Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum
- Counts as a directed elective or elective for all diplomas



AUTOMATION AND ROBOTICS



Photos taken by Web & Digital Communications students.

What will I be learning in this college/career pathway?

You will gain an understanding of robotic principles including basic theory, robot safety, robotic classifications, applications, socioeconomic impact, work cell design, robot programming, and processes in a project oriented learning environment.

What career options will this program prepare me to pursue?

Machine Operator

MACC Graduate - \$32,950

Quality Control Inspector

MACC Graduate - \$34,460

Occupational Health & Safety Technician

MACC Graduate - \$47,440

Industrial Engineering Technician

Community College - \$50,980

Electro-mechanical Technician

Community College - \$51,820

Industrial Production Manager

4-year College - \$89,190

2-4 Semesters

Career Cluster	Transportation
Pathway Title	Advanced Manufacturing
High School Courses	HIRE Technology Program (Advanced Manufacturing) Automation and Robotics I & II
College Credits	Key Principles of Advanced Manufacturing Technology in Advanced Manufacturing Basic Electricity
Industry Certifications	Manufacturing Skills Standards Council (MSSC) Certification Four Certification Exams: Safety, Quality Practices and Measurement, Manufacturing Processes and Production, and Maintenance Awareness
Internships and Work Experiences	Second-year students who have earned certification may be placed in limited Internships.



AUTO SERVICE TECHNOLOGY



Photos taken by Web & Digital Communications students.

What will I be learning in this college/career pathway?

You will be working on cars and trucks in the auto lab diagnosing malfunctions, disassembling units, performing parts inspections, and practice repairing and replacing parts.

What career options will this program prepare me to pursue?

Automotive Service Technician
MACC Graduate - \$31,000

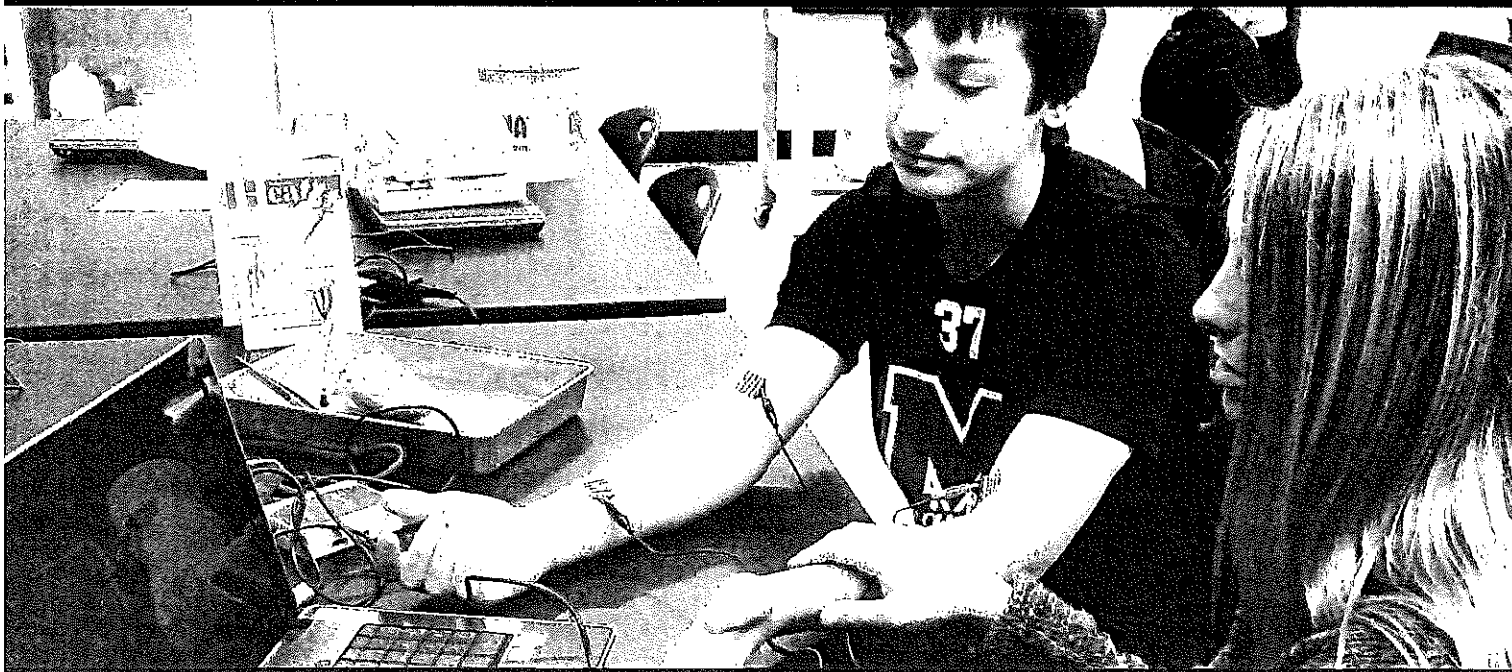
Heavy Equipment Mechanic
Postsecondary Technical Training - \$35,000

Shop Foreman
Community College - \$48,000

Automotive Service Manager
4-year College - \$65,000

2-4 Semesters

Career Cluster	Transportation
Pathway Title	Automotive Services
High School Courses	Automotive Technology I & II
College Credits	Intro to Transportation Braking Systems Engine Performance Engine Fundamentals Engine Repair Steering & Suspension Electrical & Electronics I
Industry Certifications	ASE Entry-Level Certification Testing
Internships and Work Experiences	Second-semester seniors who have passed certification requirements may be placed in limited internships



Photos taken by Web & Digital Communications students.

What will I be learning in this college/career pathway?

You will be working with the same equipment and tools used by lab professionals. Students are empowered to explore and find solutions to some of today's most pressing medical challenges. Through scaffolded activities that connect learning to life, students step into the roles of biomedical science professionals and investigate topics including human medicine, physiology, genetics, microbiology, and public health.

What career options will this program prepare me to pursue?

EKG Technician

Associates Degree - \$55,570

Lab Technician

Associates Degree - \$51,770

Mortuary Assistant

Associates Degree - \$24,600

Radiologist Tech

Associates Degree - \$59,260

Physical Therapist

Doctoral - \$86,520

Medical Doctor

Doctoral - \$164,400+

Pharmacists

Doctoral - \$120,270

Veterinarian

Doctoral - \$86,460

Forensic DNA Analyst

Bachelors - \$64,000

Nutritionist

Bachelors - \$55,460

Biomedical Engineer

Masters - \$147,970

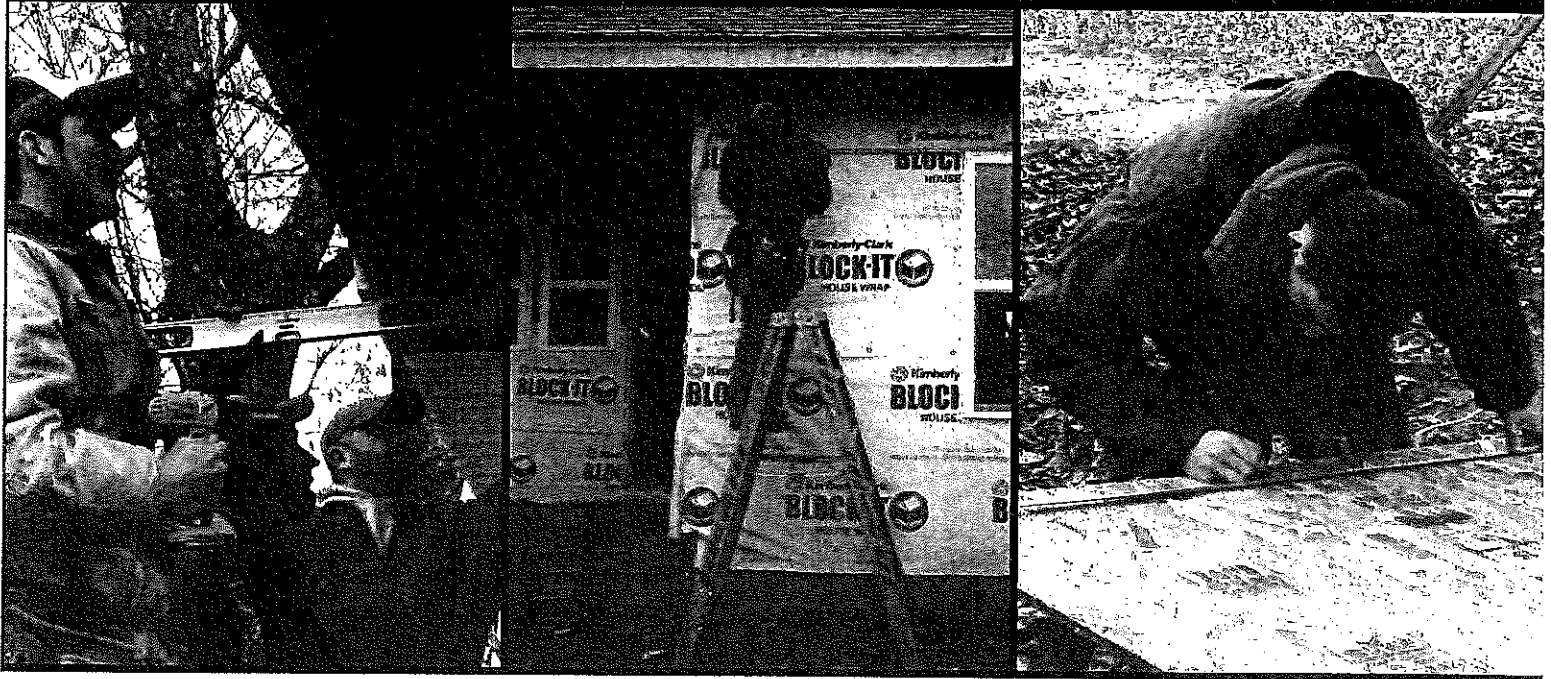
Ophthalmologist

Doctoral - \$254,000

2-4 Semesters

Career Cluster	Health Science
Pathway Title	Biotechnology
High School Courses	Principles of Biomedical Science Human Body Systems Medical Interventions Biomedical Innovations
College Credits	PLTW Articulation Agreements with certain colleges/universities
Industry Certifications	PBS End of Course Assessment HBS End of Course Assessment MI End of Course Assessment
Exposure to Science, Technology, Engineering, and Mathematic related career fields	All students will complete a job shadowing experience in the research, biomedical, or health care related fields. Biomedical Innovations students will complete a service learning project that they must present to a panel of STEM professionals.

CONSTRUCTION TECHNOLOGY



Photos taken by Web & Digital Communications students.

What will I be learning in this college/career pathway?

You will learn about safety and health procedures for construction occupations, blueprint reading, properties of materials, measuring skills and area calculations, cost estimating, building codes, construction terminology, and use of hand and power tools.

What career options will this program prepare me to pursue?

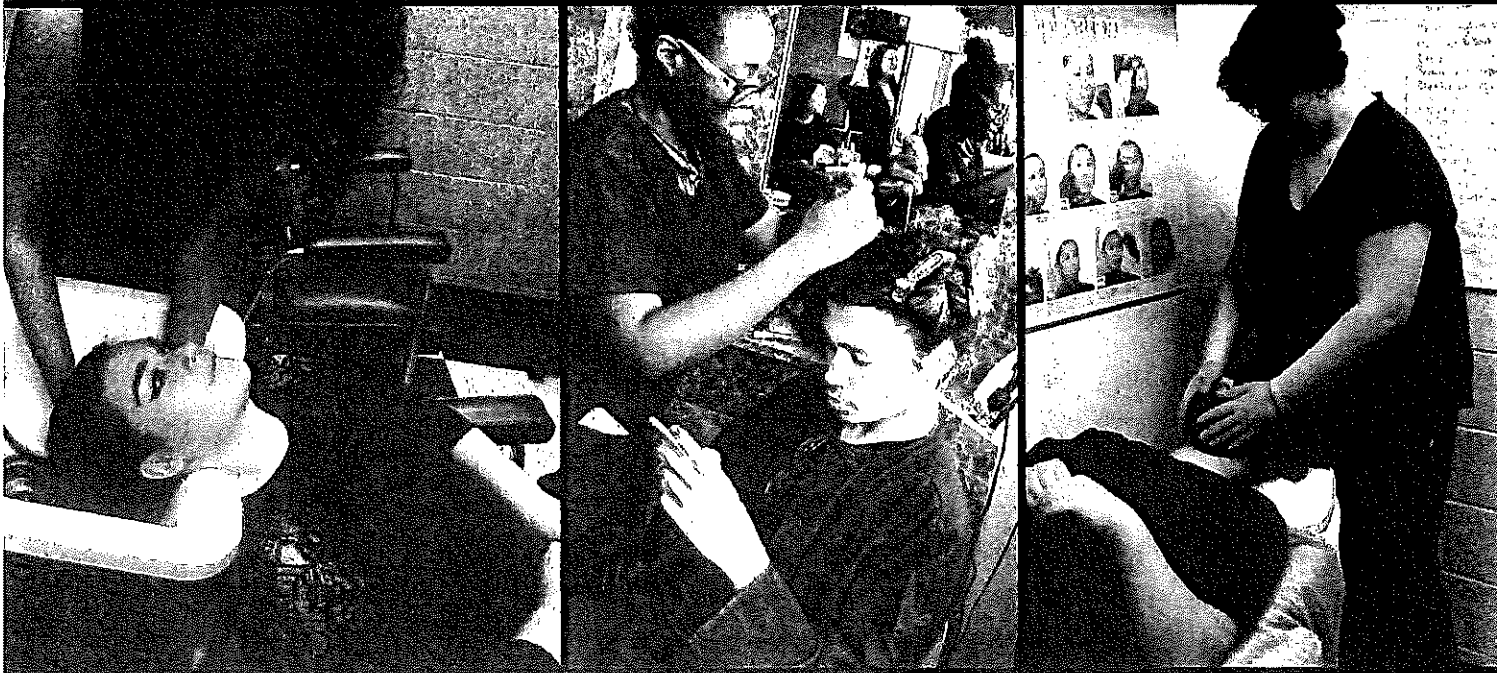
Construction Worker
MACC Graduate - \$32,870

Carpenter
MACC Graduate
Community College - \$39,160

General Contractor
4-year College
Community College - \$78,440

2-4 Semesters

Career Cluster	Architecture & Construction
Pathway Title	Construction Technology
High School Courses	Construction Technology I & II
College Credits	Intro to Construction Intro to Carpentry Part 1 & 2 Carpentry Frame & Finishing Part 1 & 2
Industry Certifications	National Center for Construction Education & Research (NCCER) Indiana-Kentucky-Ohio Regional Council of Carpenters Joint Apprenticeship
Internships and Work Experiences	Internship with Muncie Home Ownership and Revitalization Program



Photos taken by Web & Digital Communications students.

What will I be learning in this college/career pathway?

You will learn and practice all the cosmetology State Standards through theory lessons and practical work on maniquins, each other and actual customers in the MACC Salon. You will receive training in shampooing, scalp treatments, hair styling, roller sets, braiding, hair addition/weave, cutting, straightening, perming, relaxers, color, highlights, color corrections, make up, facials, waxing, manicures, pedicures, lash application and much more. You will also gain experience to start your own business, salon management, record keeping, scheduling, money handling, and customer relationship skills.

What career options will this program prepare me to pursue?

Hair Stylist (Beginner)

MACC Graduate - \$24,422

Hair Stylist (Experienced)

MACC Graduate - \$69,810

Cosmetology Instructor

Postsecondary Technical Training - \$51,910

Salon Owner

4-year College - \$70,070

Career Cluster

Hospitality & Human Services

Pathway Title

Cosmetology

High School Courses

Cosmetology I & II

College Credits

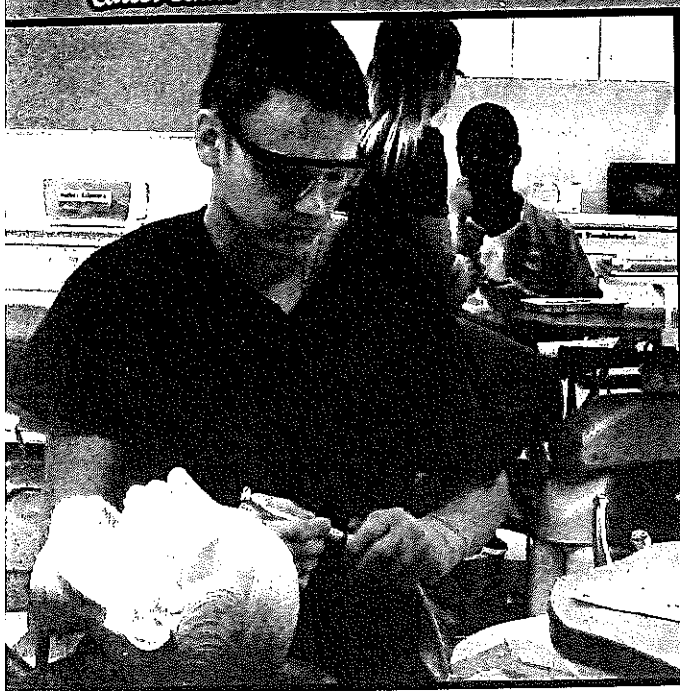
Cosmetology 100, 150, 200, 250
(Each class is 7 credits)

Industry Certifications

State Board of Cosmetology License
(1,500 hours required in order to take State Boards)

Internships and Work Experiences

Students operate the MACC Hair Salon working on actual customers. Second-semester seniors who have earned over 1,500 hours may be placed in limited internships.



Photos taken by Web & Digital Communications students.

What will I be learning in this college/career pathway?

You will practice taking oral x-rays and four-handed dental procedures in the MACC dental clinic on a regular basis, and you will learn dental terminology, infection control, oral anatomy, and dental charting procedures.

What career options will this program prepare me to pursue?

Dental Assistant

MACC Graduate - \$24,750

Certified Dental Assistant

Postsecondary Technical Training - \$32,000

Dental Lab Technician

Postsecondary Technical Training - \$34,050

Dental Hygienist

Community College - \$64,570

Dentist (General)

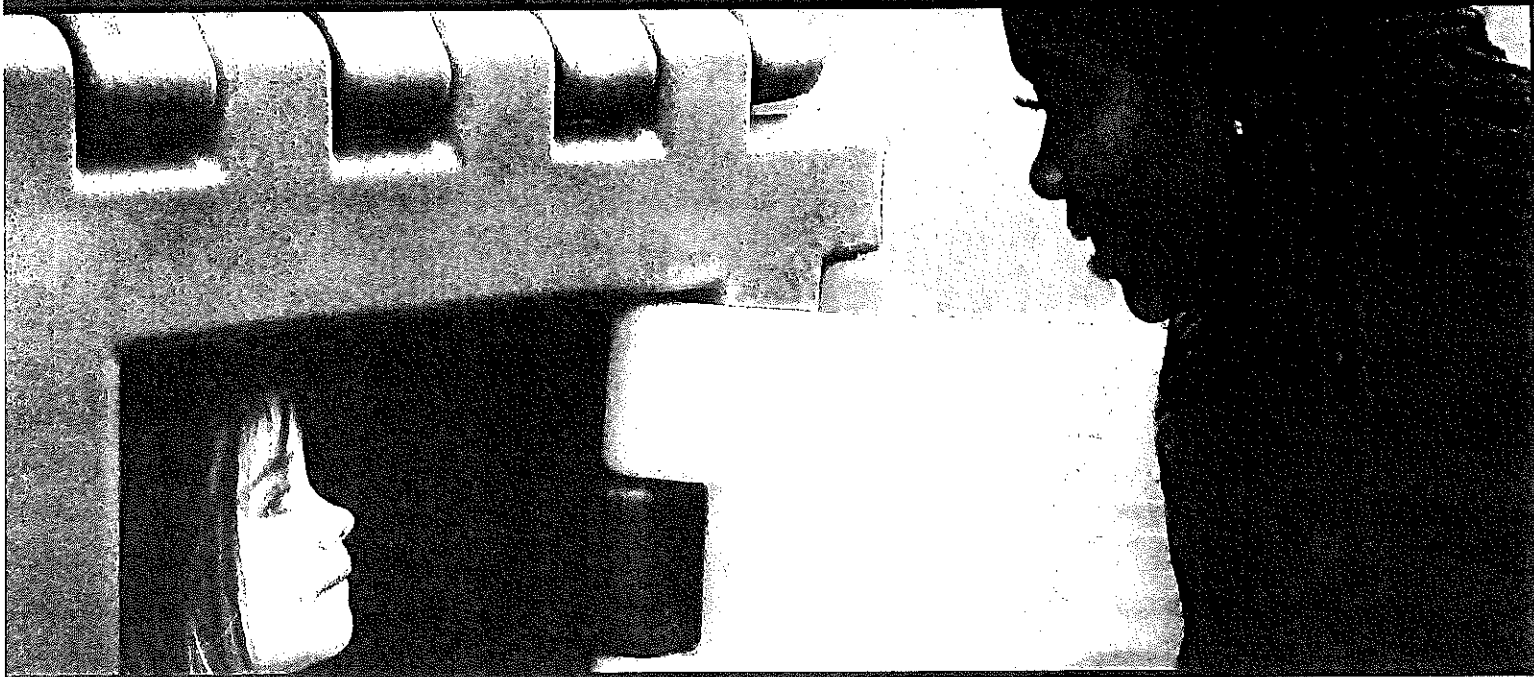
4-year College - \$124,610

4-year Undergrad

3 - 4 year Dental School

2-4 Semesters

Career Cluster	Health Science
Pathway Title	Dental
High School Courses	Dental Careers I Health Science II
College Credits	Preclinical Practice Preventative Dentistry/Diet Nutrition Medical Terminology Health & Wellness for Life
Industry Certifications	National Consortium for Health Science Education (NCHSE) CPR/AED Certification
Internships and Work Experiences	First-Year: Six-week placement in a dental office Second-Year: 16-week internship placement in a dental office.



Photos taken by Web & Digital Communications students.

What will I be learning in this college/career pathway?

You will learn how to plan and guide developmentally appropriate activities/lessons for young children. Students practice guidance and discipline, while applying basic health and safety principles when working with children. There is an overview of management and operation of licensed child care facilities, and Indiana state child care regulations and licensing requirements are integrated.

What career options will this program prepare me to pursue?

Child Care Aide
MACC Graduate - \$22,110

Preschool Teacher
Community College - \$26,180

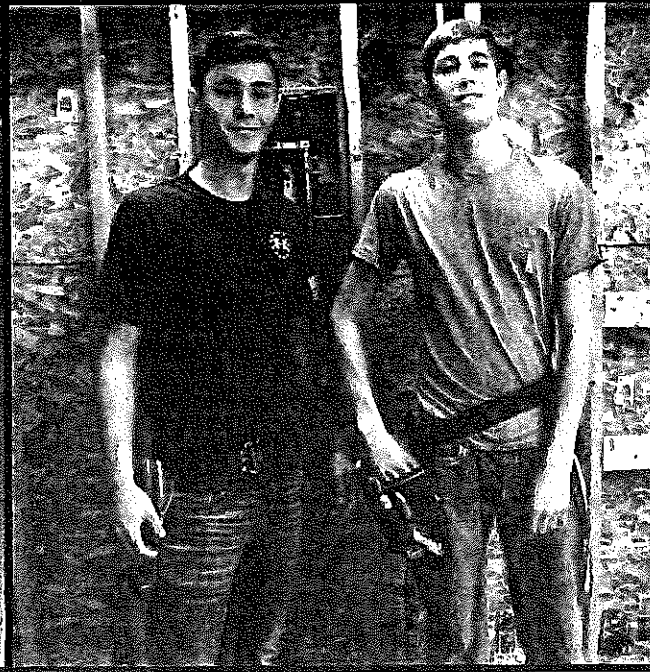
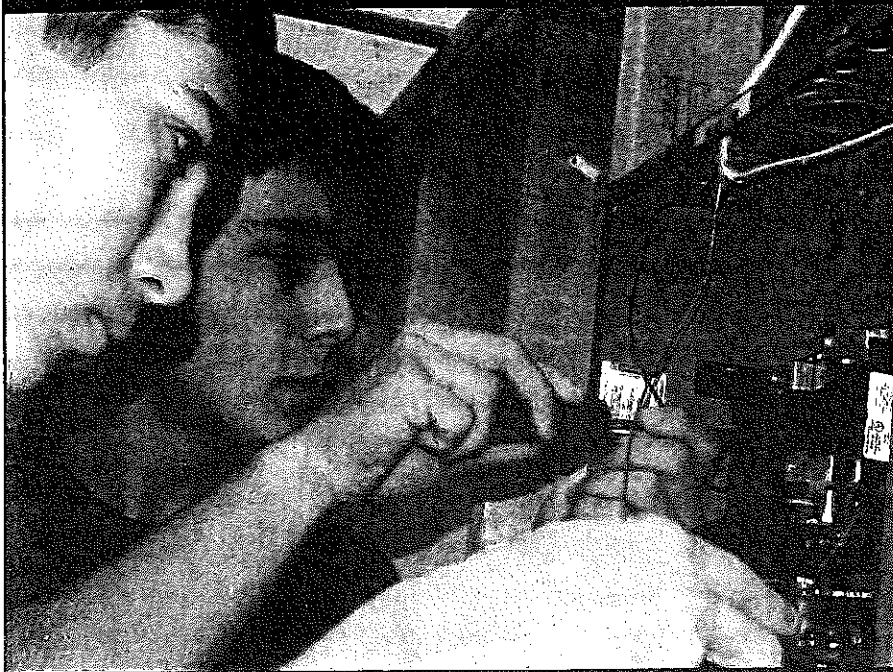
Preschool Administrator
4-year College - \$39,070

Elementary Teacher
4-year College - \$42,630

2-4 Semesters

Career Cluster	Education & Training
Pathway Title	Early Childhood Education
High School Courses	Early Childhood Education I, II
Industry Certifications	Pre-Professional Assessment and Certification (Pre-PAC) First Aid/CPR/AED Child Development Associate Credential (CDA)
Internships and Work Experiences	MACC Preschool: Students operate the MACC preschool three days each week. First-Year: Students participate in a six-week educational internship. Second Year: Eligible seniors participate in a semester long internship.

ELECTRICAL TECHNOLOGY



Photos taken by Web & Digital Communications students.

What will I be learning in this college/career pathway?

You will practice in a simulated laboratory the fundamental skills used in residential wiring including AC/DC.

What career options will this program prepare me to pursue?

Electrician Assistant
MACC Graduate - \$29,200

Security System Technician
MACC Graduate - \$32,110

Residential Electrician
Community College - \$53,360

Commercial Electrician
Community College - \$52,100

Electrical Engineer
4-year College - \$76,070

2-4 Semesters

Career Cluster	Architecture & Construction
Pathway Title	Construction Electrical
High School Courses	Electrical I & II
College Credits	Introduction to Construction Electrical Level I
Industry Certifications	National Center for Construction Education & Research (NCCER)
Internships and Work Experiences	<p>Internship with Muncie Home Ownership and Revitalization Program</p> <p>Second-year students who meet requirements will be placed in a semester long internship experience.</p>



PUBLIC SAFETY FIRE SCIENCE



Photos taken by Web & Digital Communications students.

What will I be learning in this college/career pathway?

You will wear bunker gear while practicing methods of entry, rescue principles and practices, and utilizing all types of fire fighting equipment such as extinguishers, pumps, hoses, ropes, ladders, gas masks, and hydrants. You will learn to operate the MACC fire truck as part of a fire fighting team and have the opportunity to view fire trucks and equipment used by local fire departments. Through hands/on activities, you will learn how to perform CPR, use an Automated External Defibrillator, handle spinal and bone fracture immobilization techniques, provide oxygen, and other advanced fire aid procedures as you practice on manikins and other students with assistance from local EMTs.

What career options will this program prepare me to pursue?

Firefighter

MACC Graduate - \$39,200

EMT

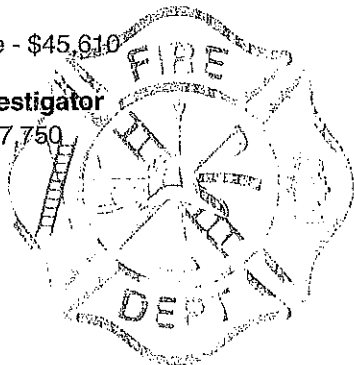
Technical Training/Community College - \$24,070

Firefighter

Community College - \$45,610

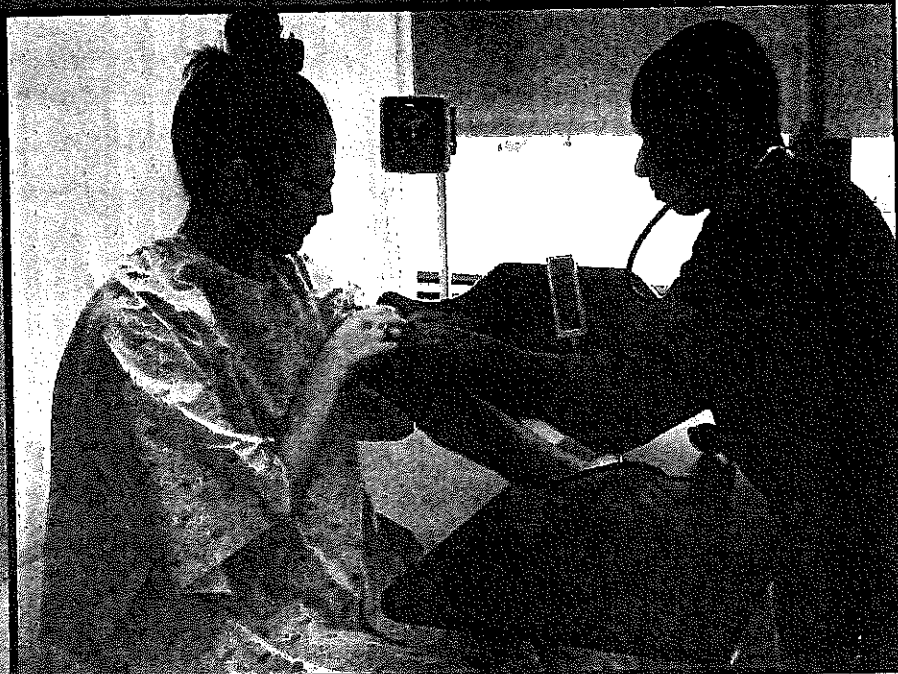
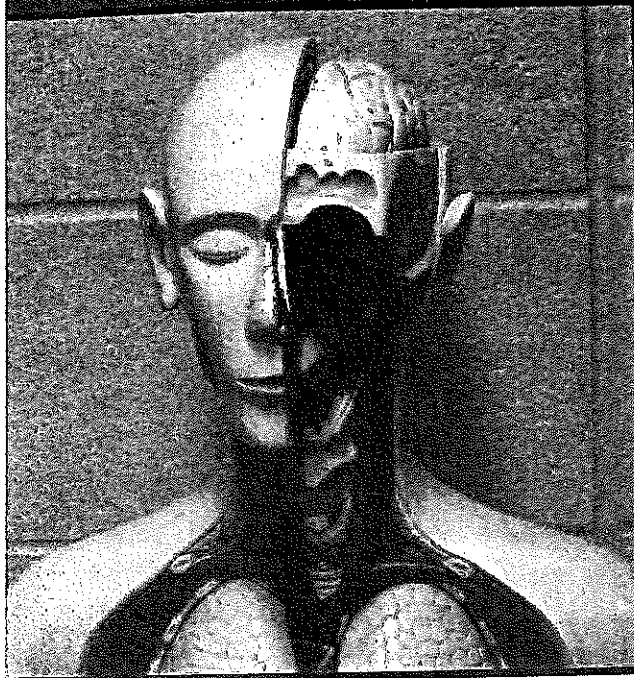
Fire Inspector Investigator

4-year College - \$47,750



Full Year = 1 Semester both Fire Science/Law Enforcement

Career Cluster	Public Safety
Pathway Title	Fire & Rescue One Semester
High School Courses	Fire & Rescue I One Semester Class
College Credits	Earned during the Criminal Justice semester
Industry Certifications	Mandatory Fire Fighter First Responders CPR/First Aid
Internships and Work Experiences	Students who complete the course and meet the requirements to serve as a volunteer firefighter



Photos taken by Web & Digital Communications students.

What will I be learning in this college/career pathway?

You will be practicing taking vital signs, patient care, and using medical terminology as you prepare for your clinical practicum placement. A major focus of the course is preparing you for the Indiana State Certified Nursing Assistant (CNA) certification.

What career options will this program prepare me to pursue?

Certified Nursing Assistant
MACC Graduate - \$24,900

Respiratory Technician
Community College - \$42,210

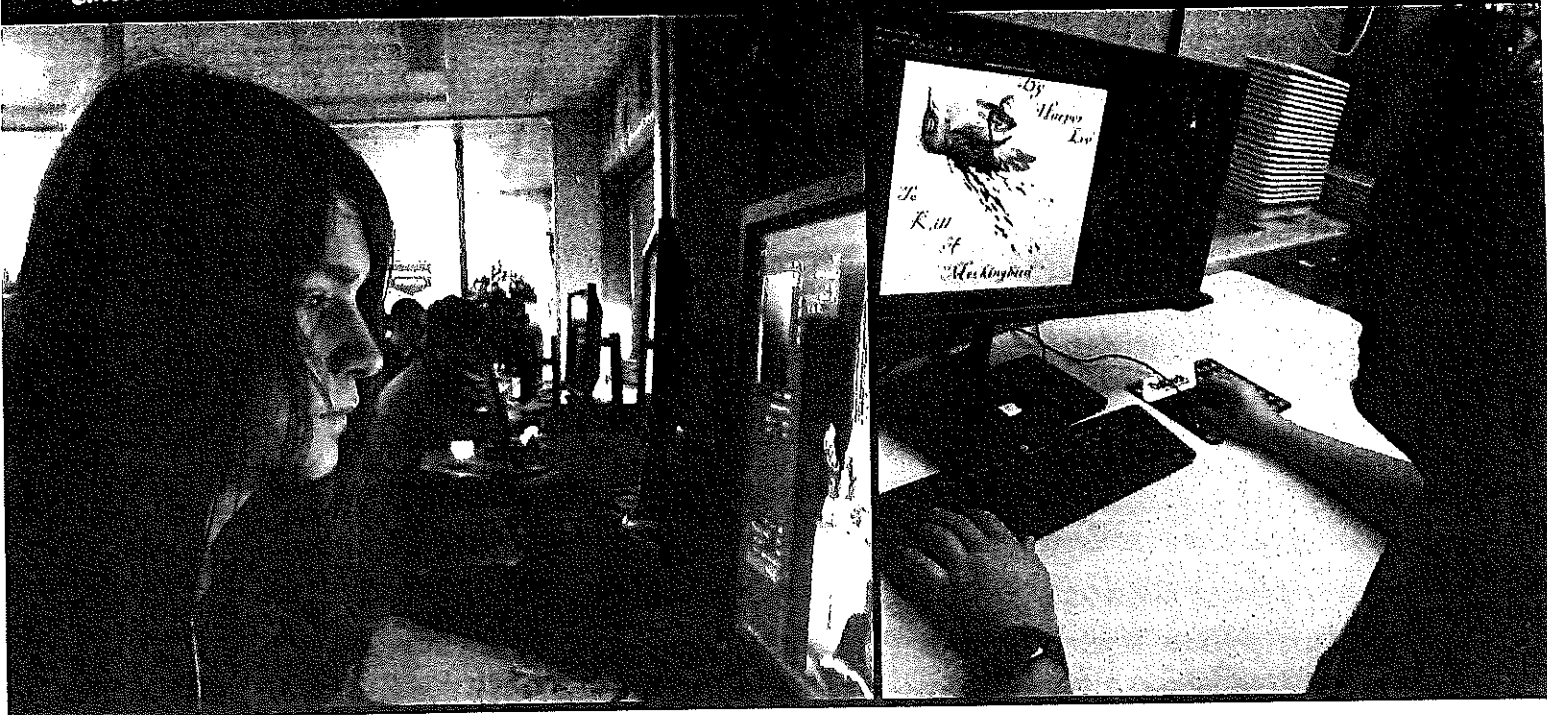
Radiological Technician
Community College - \$43,910

Nurse RN & LPN
4-year College - \$46,250

2-4 Semesters

Career Cluster Health Sciences

Pathway Title	Nursing
High School Courses	Health Science I & II Anatomy/Physiology Medical Terminology
College Credits	Intro to Health Careers (3 Credits) CNA (5 Credits) Medical Terminology - 2nd year (3 Credits) Health and Wellness for Life - 2nd year (3 Credits)
Industry Certifications	Indiana Certified Nursing Assistant (CNA) CPR/First Aid Certification
Internships and Work Experiences	First-Year: 75-hour practicum in a long term care facility Second-Year: 16-week internship placement in a health/dental facility



Photos taken by Web & Digital Communications students.

What career options will this program prepare me to pursue?

Graphic Designer - \$43,068

Video Producer - \$54,195

Web Designer - \$49,168

Video Editor - \$60,834

Photographer - \$43,351

Art Director - \$64,121

What will I be learning in this college/career pathway?

Interactive Media First Semester

- Careers in Web and Digital Communications
- Photo Editing
- Digital Illustration
- 2D and 3D Animation and Digital Imaging
- Presentation Design
- Design and Layout
- Website Development

Interactive Media Second Semester

- Careers in Graphic Design, Photo and Video Production
- Video Camera Operation
- Video and Sound Editing
- Program Production
- Still Camera Operation
- Layout, Composition and Photo finishing

2 Semesters

Career Cluster	Information Technology, Arts AV Technology & Communications	
Pathway Title	Interactive Media	Interactive Media
High School Courses	First Semester Interactive Media (3 Credits)	Second Semester Interactive Media (3 Credits)
Industry Certifications		Adobe Certification



PUBLIC SAFETY LAW ENFORCEMENT



Photos taken by Web & Digital Communications students.

What will I be learning in this college/career pathway?

You will practice traffic stops and procedures for handling various types of traffic violations and accidents. You will practice making arrests and using physical tactics used by police officers to apprehend offenders. You will have the opportunity to use mathematical skills in crash reconstruction and analysis activities requiring measurements and performance of speed/acceleration calculations. You will also be a part of a team conducting a mock criminal investigation including collecting evidence, making arrest, writing police reports, and testifying in court.

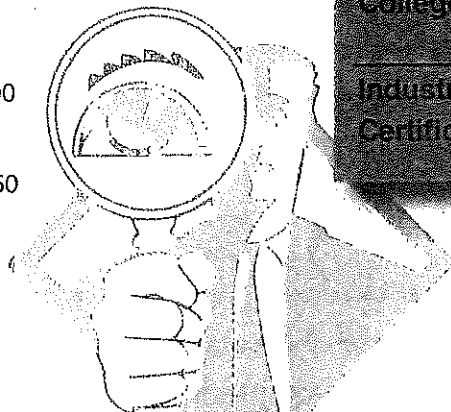
What career options will this program prepare me to pursue?

Police Patrol Officer (must be 21)
MACC Graduate - \$36,040

State Police Officer
MACC Graduate - \$39,500

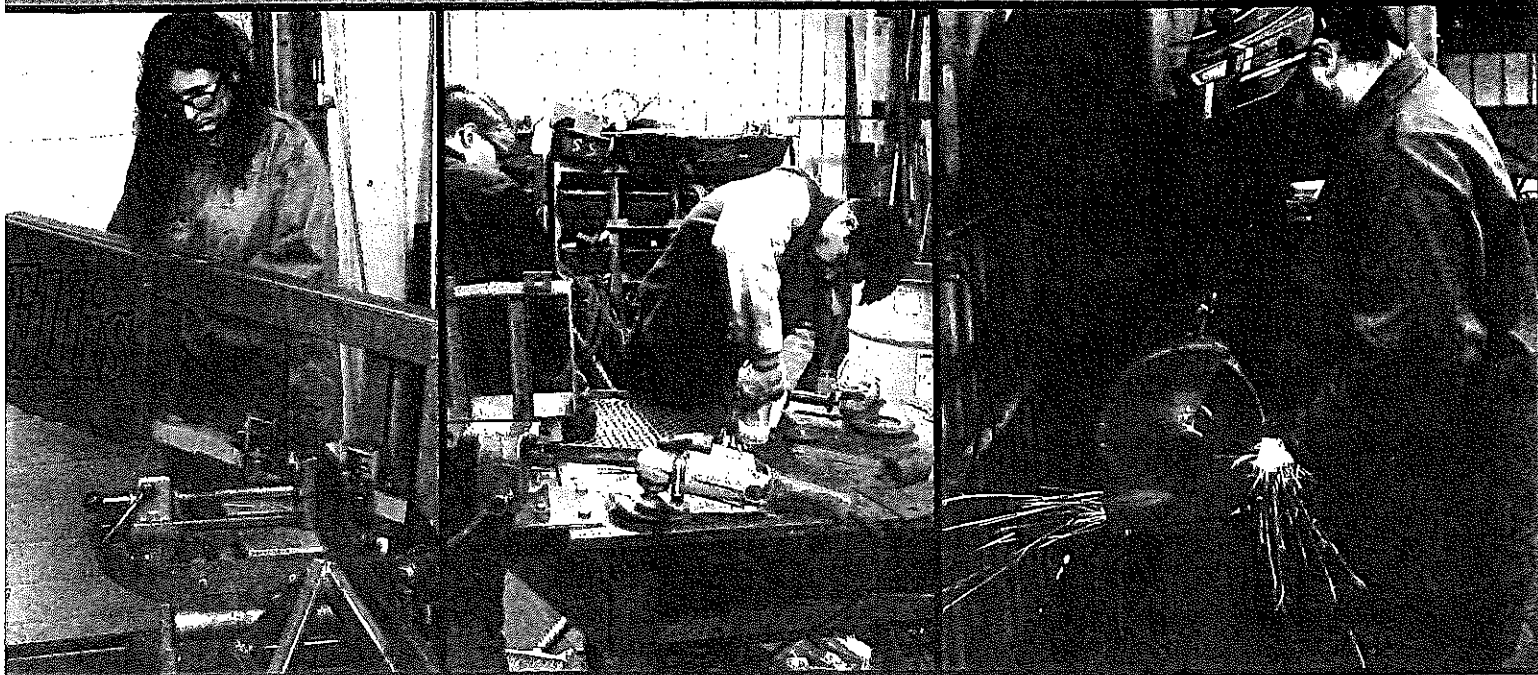
**Criminal Investigator
Special Agent**
4-year College - \$46,500

FBI Agent
4-year College - \$50,450



Full Year = 1 Semester both Fire Science/Law Enforcement

Career Cluster	Public Safety
Pathway Title	Criminal Justice One Semester
High School Courses	Criminal Justice I One Semester Class
College Credits	Survey of Criminal Justice Criminal Investigation
Industry Certifications	Earned during alternating semester in Fire & Rescue



Photos taken by Web & Digital Communications students.

What will I be learning in this college/career pathway?

You will learn about the properties of metals, safety issues, blueprint reading, electrical principles, welding symbols, and mechanical drawings through hands-on activities. You will practice forming, shearing, arc welding, mig, tig, oxy-acetylene, fusion, brazing, and arc aircutting and resistance welding.

What career options will this program prepare me to pursue?

Welders, Cutters, & Welder Fitters
MACC Graduate - \$24,441

Certified Welding Technician
Community College - \$33,490

Structural Metal Fabricator
Community College - \$43,700

Materials Engineer
4-year College - \$59,780

Metallurgist
4-year College - \$67,800

2-4 Semesters

Career Cluster Manufacturing & Logistics

Pathway Title	Welding Technology
High School Courses	Welding Technology I & II
College Credits	Shielded Metal Arc Welding I Oxy-Fuel Gas Welding & Cutting Gas Metal Arc Welding
Industry Certifications	American Welding Society (AWS) Level 1-Modules, 2, 3, 8-Unit 1, 8-Unit 3, and 9 plus one welding process
Internships and Work Experiences	Second-semester seniors who have passed certifications requirements may be placed in limited internships.