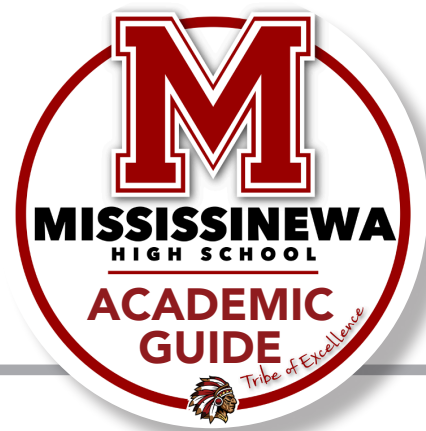


Mississinewa High School:
A tradition of excellence.

2024-25 STUDENT course guide

.....
Choose a career path that is meaningful to you.
Learn how to earn up to 2 years of college.
Use the course guide to map your future.



It is imperative students and parents discuss course selections in-depth to ensure the best educational opportunities.

MISSISSINEWA COMMUNITY SCHOOLS

Lezlie Winter | Superintendent
Steve Quaderer | Central Office Administrator
MISSISSINEWA HIGH SCHOOL
Rachel Roesch | Principal
Brodie Burbank | Asst. Principal
Corey Wilson | Asst. Principal
Rich Benjamin | Athletic Director
Kelley Grate | Director of Student Services
Joanna Schnepf | School Counselor
Dara Young | School Counselor



A MESSAGE TO OUR STUDENTS & PARENTS

Dear Students and Parents/Guardians,
This academic guide was developed to assist students and parents in planning a program of study to meet the individual academic needs, interests, and aptitudes of our students. It is imperative that students and parents discuss course selections in-depth, in order to ensure that all students get the best educational opportunities available.
There have been a vast number of changes made to the curriculum of Mississinewa High School over the past few years:
• more Advanced Placement courses,
• more career and technical education classes, and
• Tribe University, which includes a partnership with Ivy Tech of Marion and more dual credit offerings and opportunities to earn college credentials while still in high school.

The new course offerings, as well as the current diploma requirements, can be found throughout this academic guide. We have included example career pathways that demonstrate how many of the courses that we are able to offer at Mississinewa High School fit together to provide meaningful learning experiences for all students. These are not the only career pathways, but they are samples to give you an idea of how our course offerings are tailored to better prepare all students for college and/or career following graduation.
It is vitally important that your student’s initial course requests reflect what he/she wants to take during the 2024-2025 school year. We urge parents and students to plan carefully when selecting their classes. As always, parents who wish to meet with their child’s counselor during the scheduling process should call the high school to schedule an appointment. Please do not hesitate to call us should a question or concern arise!

Yours in Education,
The Administration, Faculty, and Staff of Mississinewa High School

mission statement

The mission of Mississinewa High School is to foster a safe and positive learning environment that gives all students an opportunity for academic and personal success. The school, the home, and the community will work collectively to cultivate skills, attitudes, and talents that will prepare our graduates not only to succeed in college and careers, but also become informed, responsible citizens who respect diversity and value lifelong learning in the 21st century.

core values

- 1 Integrity is to be demonstrated at all times including academic and extracurricular activities. Showing integrity includes: being respectful, being committed, being disciplined, being productive citizens, being responsible, and being unified in our endeavor for academic and athletic achievement.
- 2 Every student has a right to achieve in a supportive and challenging atmosphere.
- 3 Education is a critical part of the development of any society; therefore, through the development of critical thinking and communication skills, students will learn and make appropriate decisions.
- 4 Students need to be actively involved in solving problems and producing student work which reflects high achievement.
- 5 Students need to feel empowered when making educational decisions. We believe that all students can learn. They need to feel part of the process by assuring the quality of their work; therefore promoting thoughtful reflection.
- 6 Faculty and staff recognize each child’s special needs and cultural background, and adapt instruction to improve their educational, physical, social, and emotional opportunities.
- 7 Education should be individualized and is an endless learning process; instruction will address learning styles and approaches that encourage continuous learning.
- 8 Our mission at Mississinewa High School is to provide a positive environment and equal opportunity for all students to excel and to achieve a quality education. Relevant academic and vocational classes linked with extra-curricular experiences are offered in order to prepare students to enter the work force, to pursue higher education, and to participate as responsible and self-disciplined citizens.

MISSISSINEWA HIGH SCHOOL LEADERSHIP: KEY CONTACTS

ADMINISTRATIVE TEAM			
Principal	Mrs. Rachel Roesch	4425	rachel_roesch@olemiss.k12.in.us
Assistant Principal	Mr. Brodie Burbank	4423	brodie_burbank@olemiss.k12.in.us
Assistant Principal	Mr. Corey Wilson	4262	corey_wilson@olemiss.k12.in.us
Athletic Director	Mr. Rich Benjamin	4228	rich_benjamin@olemiss.k12.in.us
Secretary to Principal	Mrs. Brooke Richardson	4222	brooke_richardson@olemiss.k12.in.us
Secretary to School Counselors	Mrs. Kathy Yocum	4221	kathy_yocum@olemiss.k12.in.us
Secretary to Athletic Director	Ms. Molly Mathias	4229	molly_mathias@olemiss.k12.in.us
Attendance Officer	Mrs. Rachel Garcia	4230	rachel_garcia@olemiss.k12.in.us

DEPARTMENT CHAIRS COORDINATORS			
Art	Mr. Lloyd Woodard	4286	lloyd_woodard@olemiss.k12.in.us
Business	Mr. Ryan Armes	4274	ryan_ames@olemiss.k12.in.us
Exceptional Education	Mrs. Stephanie Baledge	4269	stephanie_baledge@olemiss.k12.in.us
Student Services	Ms. Kelley Grate	4227	kelley_grate@olemiss.k12.in.us
English	Mrs. Tracie Speakman	4271	tracie_speakman@olemiss.k12.in.us
Mathematics	Mr. Scott Herring	4220	scott_herring@olemiss.k12.in.us
Physical Education Health	Mr. Josh Greentree	4255	josh_greentree@olemiss.k12.in.us
Science	Mrs. Kathy Daniels	4216	kathy_daniels@olemiss.k12.in.us
Social Studies	Mr. Adam Williamson	4273	adam_williamson@olemiss.k12.in.us

SCHOOL COUNSELING DEPARTMENT TEAM			
Director of Student Services	Mrs. Kelley Grate	4227	kelley_grate@olemiss.k12.in.us
Counselor for Students with last names A-L	Mrs. Dara Young	4279	dara_young@olemiss.k12.in.us
Counselor for Students with last names M-Z	Mrs. Joanna Schnepf	4224	joanna_schnepf@olemiss.k12.in.us
Secretary	Mrs. Kathy Yocum	4221	kathy_yocum@olemiss.k12.in.us

21st century skills

In addition to core academic content, Mississinewa High School believes in developing the following 21st century skills/proficiencies:

- Collaboration
- Communication
- Creativity and Innovation
- Global Awareness

- Political and Economic Awareness
- Adaptability
- Financial Literacy
- Technology
- Critical Thinking
- Optimal Health and Wellness
- Independence and Responsibility

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MAP YOUR COURSE CHOICES
& GRADUATION PLAN

introduction

Mississinewa High School has prepared this handbook to assist you in course selections for the coming school year. **It contains information on graduation requirements, the classes that are available, and recommended curricula for vocational and collegiate experiences.** Additionally, information is available regarding class rank and grade point average calculations as well as opportunities for honors classes, advanced placement testing, and dual credit options. We hope that by providing as much information and assistance as possible, we will make it possible for each student to make the most of his/her educational opportunities.



ACADEMIC YEAR | The normal academic year is defined as the first day of school in the fall through the last day of summer school. For incoming freshmen, the academic year is defined as the first day of enrollment in high school classes through the last day of summer school.

SCHEDULE CHANGE POLICY | Beginning in January, counselors will review student course requests on an individual basis. After students register for classes, teachers will be hired and teacher schedules established based upon selections made by students. Yearlong course requests are yearlong commitments, and students will not be allowed to drop the second semester of yearlong courses unless the request meets the criteria listed below. Similarly, changes in chosen second semester classes cannot be made at the end of the first semester. Student schedules will not be changed after June 5, 2024 unless the following exists:

- Need to meet high school graduation requirement
- Need to meet college entrance requirement
- Need to balance over-crowded classes
- An error in computer entry
- Late staff changes

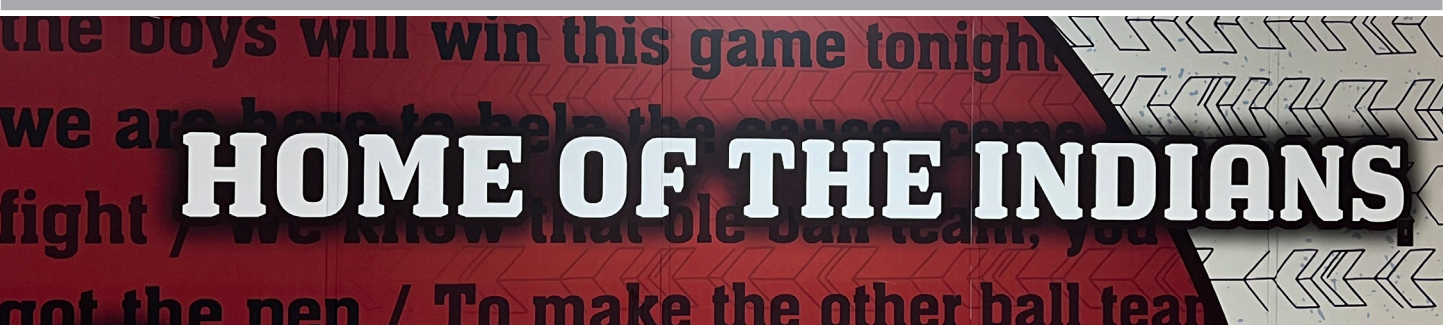
Requested changes related to teacher assignments, lunch assignments, class periods, etc., will not be considered.

SUMMER SCHOOL | At the high school level, students needing to recover credits are encouraged to take advantage of summer options. Additionally, SAT and other test preparation opportunities are available.

THE INDIAN ACADEMY | The Indian Academy (TIA) program is designed for students who learn in a non-traditional school setting and need more self-paced, individualized instruction. The program will provide an intensive, student-centered, structured, personalized learning environment that facilitates emotional, social, and academic development. State-approved, online courses are facilitated by licensed teachers. The length of a student's participation in the TIA program will be based on the student's Individual Learning Plan and the number of credits needed to earn a diploma. Applications for TIA are reviewed by a committee of counselors, administrators, and the TIA director.

IHSAA INFORMATION | The Indiana High School Athletic Association establishes rules regarding athletes' eligibility to participate in interscholastic athletic events. Student athletes are required to be scheduled into five (5) full credit courses to be eligible, as well as have passed five (5) full credit courses. A student may not repeat (audit) a course for which they have previously earned credit and count it as one the five classes for eligibility. Incoming freshmen enrolled in five full credit courses are automatically eligible until grades are issued at the end of the first nine weeks. Students' parents having questions on eligibility should contact Mr. Rich Benjamin, Mississinewa High School's Athletic Director. The IHSAA website is located at www.ihsaa.org.

NCAA/NAIA INFORMATION | Any student interested in competing in collegiate athletics should contact the Mississinewa High School Athletic Department for information and requirements. For the most current, complete information, visit the NCAA website at www.eligibilitycenter.org or NAIA website at www.naia.org



COURSE INFORMATION

SCHOOL FEES | Students at Mississinewa High School pay annual school fees that will be based on the cost of the course materials as well as technology fees related to our 1-to-1 program according to a formula required by the Indiana State Board of Accounts. Some courses (Band, Choir, Marketing) also require supplementary fees. Students should consider the expense of those elective courses before enrolling in them. Students enrolling in courses at Marion Regional Career Center will have additional course fees, and those fees will not be shown on the fee statements issued by Mississinewa High School. Students enrolling in courses for dual credit or Advanced Placement will not be charged additional fees. They will sign a commitment form agreeing to pay a fee only if they drop the course after the drop date or fail a dual credit course.

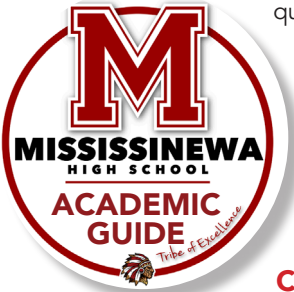
COURSE PREREQUISITES | Because of the nature of some courses, the completion of prerequisite classes may be required before students are allowed to enroll in the more advanced course. The staff has found successful completion of these earlier classes to be most important in satisfactorily completing later courses. These prerequisites are noted in the course descriptions.

COURSE CREDIT INFORMATION

HIGH SCHOOL CREDITS | PROVISIONS FOR GRANTING CREDIT EARNED AT OTHER SCHOOLS |
TRANSFER STUDENTS: Students who transfer from another school to attend Mississinewa High School may transfer credits earned from the previous school if the previous school is an accredited state school, approved by the AdvancedED or one of the other regional accrediting agencies. Students who transfer from schools not accredited by the NCA or one of the regional accrediting agencies must:

- Submit detailed transcripts from the previous school,
- Submit detailed information about the previous school and its procedures for granting credit,
- Submit a detailed course curriculum for each course and artifacts of their work.
- The decision by Mississinewa High School to grant such transfer credit will be evaluated on a case-by-case basis. The school also may, at its discretion, require that the student pass a competency test in each subject area as part of the review of the credit transfer request.

POST-SECONDARY CREDIT POLICY | The Mississinewa Community School Corporation has adopted a policy that allows qualifying high school students to apply for permission to take postsecondary courses at eligible Indiana institutions and receive credit towards high school graduation. Some key provisions are described below. Courses taken must correspond to state-approved course titles and must be approved by the principal or his designee. Grades reported by the institution will appear on the student's high school transcript. Requests to take courses under this program must be submitted to the building principal for approval prior to enrollment at the institution.



HONORS COURSES | A student who has been recommended for an honors course should not be discouraged from taking the course because of the possibility that he/she might not earn an "A". College admission offices quite easily recognize students who accumulate an abundance of "A's" in non-weighted courses. Since honors classes are "weighted," they carry more numerical value in computing the student's GPA. Colleges and universities stress that honors classes are excellent preparation for students planning education beyond high school.

ADVANCED PLACEMENT (AP) COURSES | Through The College Board, students may earn Advanced Placement credit at the college or university of their choice by completing AP courses and taking the corresponding AP exams. Such testing is offered in Math, Science, English, Foreign Language, Social Studies, Art, and Computer Science. The AP test scores necessary to award credit will vary among colleges and universities. Additional information is available from The College Board at <http://www.collegeboard.org/ap/students/> Student PSAT scores may demonstrate potential in specific AP courses. School counselors can share this information with students during scheduling meetings.



GUIDELINES FOR OFF-SITE DUAL CREDIT ENROLLMENT | Students approved for dual credit enrollment will be given release time from classes at MHS. The release time from MHS is attached to the period of time the college class meets. During the school day (7:30 a.m. – 2:30 p.m.), the time of the college course must coordinate with MHS's bell schedule. If a student takes one college class during the school day, the student may be dismissed from 3 classes at MHS. These times correspond to the time the college class meets. If the student drops the college class at any time during the semester, the student must return to MHS. If the drop happens within the 1st three weeks of the MHS semester, the student will take a credit course; otherwise, they must attend a class for non-credit. Students must notify the school counselor before they drop a college class.

Students in athletics and other extra-curricular activities must check with their coach/adviser to determine if eligibility requirements are being met. MHS weighted credit will only be given to college courses corresponding to existing IDOE approved courses.

GRADING PROCEDURES

GRADE RANGES	
A	93.34 - 100
A-	90.00 - 93.33
B+	86.67 - 89.99
B	83.34 - 86.66
B-	80.00 - 83.33
C+	76.67 - 79.99
C	73.34 - 76.66
C-	70.00 - 73.33
D+	66.67 - 69.99
D	63.34 - 66.66
D-	60.00 - 63.33
F	59.99 - 0

GPA GRADE CALCULATION | The chart at left illustrates the value given each grade in all courses. AP and Honors courses add additional weight.

HONORS/WEIGHTED COURSES | Mississinewa High School offers selected courses that require significantly higher academic achievement and work levels. These 'weighted' courses provide for the grades earned in that course to be weighted for purposes of determining GPA. These courses are identified in the course descriptions.

SCHOOL-WIDE GRADING SCALE | This is our school wide grading scale used by teachers in computing the progress report, quarter grades, and final semester grades for each student. High school credits are awarded for passing grades earned at the end of each semester. Listed in the chart at right are the ranges for each grade category:

GRADE GPA PTS.	
A	4.0
A-	3.67
B+	3.33
B	3.00
B-	2.67
C+	2.33
C	2.00
C-	1.67
D+	1.33
D	1.00
D-	0.67
F	0

WITHDRAWAL | Students removed from a class due to attendance or discipline problems or withdrawing from school to pursue a GED or alternative education will receive a WD grade in the class at the time of their withdrawal. A student anticipating withdrawal from school should have a parent/guardian contact the school counseling department at least one day before the final day of attendance. This allows time to notify teachers so they release current grades. Any obligations, including book rental and return of library books and textbooks, should be completed before an official transcript will be sent to the receiving school.

HIGH SCHOOL DIPLOMA INFORMATION | Mississinewa High School awards a High School Diploma to every student who has earned the required 44 credits and has passed the GQE and/or met graduation pathway requirements. Students who have earned the required 44 credits but have not passed the exams or met graduation pathway criteria may be eligible for a waiver. The waiver committee will meet in the spring of the student's senior year. Diploma designations for Indiana Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors are also available.

CERTIFICATE OF COMPLETION | Mississinewa High School awards a Certificate of Completion to special service students whose Individual Education Plan does not include earning a high school diploma but who has completed the plan set forth in that document.

GRADUATION REQUIREMENTS | Every graduating Indiana high school student must demonstrate mastery of the academic standards measured by the current state assessments and/or graduation pathway requirements to receive a diploma. Students in the Class of 2023 and beyond must take the SAT as the graduation qualifying exam. Students must also take the Biology ILEARN, but a passing score is not yet a graduation requirement by the Indiana Department of Education. Students who do not pass the GQE may still be eligible for graduation if they qualify through graduation pathways or a waiver process.



graduation pathways

Mississinewa High School is committed to providing a progressive curriculum to increase student achievement and student opportunities. With the passage of Graduation Pathways, students are now able to individualize their graduation requirements to align to their postsecondary goal. No longer must all students fit into the same academic mold, but rather, they can choose the options that best meet their postsecondary needs and aspirations. Students can create pathways that serve their educational interests and prepares them for postsecondary educational and career opportunities. We have included example career pathways that demonstrate how many of the courses that we are able to offer at Mississinewa High School fit together to provide meaningful learning experiences for all students. These are not the only career pathways, but they are samples to give you an idea of how our course offerings are tailored to better prepare all students for college and/or career following graduation.

Pathways: Agriculture; Business; Computer Science; Criminal Justice; Education; Engineering; Health Sciences; Manufacturing; and Radio & TV.

THE PURPOSE OF INDIANA'S GRADUATION PATHWAYS:

The pathways ensure that every student graduates from high school with:

- 1) A broad awareness of and engagement with individual career interests and associated career options;
- 2) A strong foundation of academic and technical skills; and
- 3) Demonstrable employability skills that lead directly to meaningful opportunities for postsecondary education, training, and gainful employment.

HOW GRADUATION PATHWAYS IMPACT STUDENTS:

The pathways move from a one-size-fits-all approach where earning a diploma was dependent on passing graduation qualifying exams. Instead, Graduation Pathways allow students to select from multiple ways to graduate that align with their strengths and interests while furthering their career goals and skills. These Pathways encourage relevancy and student engagement while maximizing more individualized options to meet every student's unique goals and needs.

WHAT STUDENTS NEED TO DO TO GRADUATE FROM HIGH SCHOOL:

Beginning with the graduating class of 2023, Indiana high school students must satisfy all three of the following Graduation Requirements:

1. **Earn a High School Diploma;**
2. **Learn and Demonstrate Employability Skills; AND**
3. **Demonstrate Postsecondary-Ready Competencies.**

WHAT GRADUATION PATHWAYS MEAN FOR STUDENTS:

1 DIPLOMA: To graduate high school, a student must meet the statutorily defined diploma credit and curricular requirements. This includes the:

- General designation;
- Core 40 designation;
- Academic Honors designation; OR
- Technical Honors designation.

2 SKILLS: To learn and demonstrate employability skills, a student must fulfill ONE of the following:

- COMPLETION OF A PROJECT-BASED LEARNING EXPERIENCE. Examples include completion of a course capstone, research project, or AP Capstone Assessment; OR
- COMPLETION OF A SERVICE-BASED LEARNING EXPERIENCE. Examples include participation in a meaningful volunteer or civic engagement experience, school-based activity, such as a co-curricular or extracurricular activity or sport for at least one academic year; OR
- COMPLETION OF A WORK-BASED LEARNING EXPERIENCE. Examples include completion of a course capstone, internship, obtaining the Governor's Work Ethic Certificate, or employment outside of the school day.

3 COMPETENCIES: To demonstrate postsecondary-ready competencies a student must fulfill at least ONE of the following:

- Honors diploma: Fulfill all requirements of either the Academic or Technical Honors diploma; OR
- ACT: Earn the college-ready benchmark scores; OR
- SAT: Earn the college-ready benchmarks scores; OR
- Armed Services Vocational Aptitude Battery (ASVAB): Earn at least a minimum Armed Forces Qualification Test (AFQT) score to qualify for placement into one of the branches of the US military; OR
- State- and Industry-recognized Credential or Certification; OR
- Federally-recognized Apprenticeship; OR
- Career-Technical Education Concentrator: Must earn a C average in at least two non-duplicative advanced courses within a particular program or program of study; OR
- AP/International Baccalaureate/Dual Credit/Cambridge International courses or College Level Examination Program (CLEP) Exams: Earn a C average or higher in at least three (3) courses; OR
- Locally created pathway that earns the approval of the State Board of Education by meeting its framework.

GRADUATION REQUIREMENT & PATHWAYS

COMMENCEMENT CEREMONY PARTICIPATION

In order to participate in commencement ceremonies, a Mississinewa High School student must be in good standing and have fulfilled all requirements to earn a high school diploma or a certificate of completion. Commencement practices are mandatory; students who do not attend these rehearsals will not be allowed to participate in the commencement ceremony. A student under suspension, expulsion, or exclusion at the time of graduation may not participate in commencement ceremonies.

COLLEGE ENTRANCE PREPARATION

One of the major concerns of students and parents during the scheduling process in high school is to ensure that the course work taken during this critical time will be sufficient to gain entry into the college or university of the student's choice. Students and parents are strongly urged to discuss several possible college choices during the freshmen and sophomore years and contact these institutions for their specific requirements. Such information will be invaluable in planning schedules. Students and parents should not feel that such choices must be finalized at such an early date; however, providing flexibility for later years is a desirable objective.

COLLEGE APPLICATION

While most students apply for college acceptance during the early fall of their senior year, students interested in highly competitive areas of study such as nursing, engineering, etc., should investigate the application process for these programs at the school(s) of their choice during the early part of the junior year. This also requires that juniors should take either the SAT or the ACT in the spring of their junior year. Such planning allows for early application to colleges and also allows students to retake the exam to possibly increase their scores and thereby improving their chances of acceptance in highly selective college programs.

PSAT | ALL FRESHMAN, SOPHOMORES, & JUNIORS WILL TAKE THE PSAT EXAM. This test provides important practice for the SAT. An additional consideration in taking this test is that it is the first step in the National Merit Scholarship competition. The test will be administered at Mississinewa High School in October of each year. The website for more information is www.collegeboard.org/psat/student/html/indx001.html.

COLLEGE ENTRANCE EXAMINATIONS | College-bound students should be aware that many colleges and universities currently require their applicants to have taken either the SAT or the ACT. It is the student's responsibility to research such requirements for any school they are considering and plan accordingly. It is recommended that students take the SAT and/or ACT more than once. Dates for the SAT and/or ACT are available at nearby high schools and colleges. The School Counseling Office has additional information on these tests, including late registration details and locations available. Additional information and online registration are available at www.collegeboard.com and www.act.org. Students should carefully read the test preparation materials provided on these websites. For your planning, the following national test dates have been established for these examinations:

SAT REGISTRATION DEADLINES

Upcoming test dates	Regular registration deadline	Late registration deadline
March 9, 2024	Feb. 23, 2024	Feb. 27, 2024
May 4, 2024	April 19, 2024	April 23, 2024
June 3, 2024	May 16, 2024	May 21, 2024

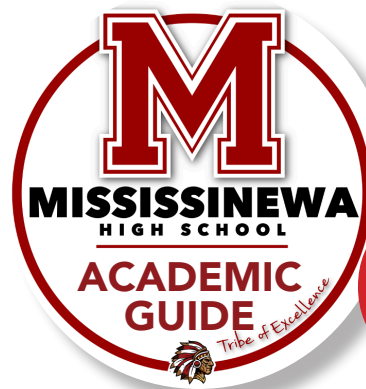
MHS CODE 151 - 390
www.collegeboard.org

ACT REGISTRATION DEADLINES

Upcoming test dates	Regular registration deadline	Late registration deadline
April 13, 2024	March 8, 2024	March 22, 2024
June 8, 2024	May 3, 2024	May 17, 2024
July 13, 2024	June 7, 2024	June 21, 2024

MHS CODE 151 - 390
www.act.org

notes



2024-25

CTE

COURSE OFFERINGS

CTE: TRADE & INDUSTRY

COURSE	GRADE			
DCM CTE Prin. of Crim. Justice/CRIM 101	10	11	12	
DCM CTE Law Enf. Fund./CRIM 105	10	11	12	
DCM CTE Cor. & Cult. Awar./CRIM 103/130	11	12		
DCM CTE Crim. Just. Cap./CRIM 134/201	11	12		

ENGINEERING

COURSE	GRADE			
CTE PLTW Intro. to Engineering Design	9	10	11	12
CTE PLTW Principles of Engineering		10	11	12
CTE PLTW Civil Engineering & Architecture		10	11	12

MANUFACTURING

COURSE	GRADE			
CTE Principles of Construction Trades	9	10	11	12
CTE Principles of Advanced Manufacturing	9	10	11	12
CTE Advanced Manufacturing Tech		10	11	12
CTE Industrial Electrical Fundamentals		10	11	12
CTE Industrial Electrical Capstone			11	12

CTE: HEALTH SCIENCE

COURSE	GRADE			
DCM CTE Prin. of Healthcare/HLHS100		10	11	12
DCM CTE Medical Terminology/HLHS101		10	11	12
DCM CTE Healthcare Spec. CNA/HLHS107		10	11	12
DCM CTE Health. Spec. Cap. CCMA/HLHS			11	12
CTE PLTW Principles of Biomedical Science	9	10	11	12
CTE PLTW Human Body Systems		10	11	12
CTE PLTW Medical Interventions		10	11	12
CTE PLTW Biomedical Innovation			11	12

CTE: AGRICULTURE

COURSE	GRADE			
DCM CTE Principles of Agri./AGRI 100	9	10	11	12
DCM CTE Plant & Soil Science/AGRI 105		10	11	12
DCM CTE Food Science/AGRI 104		10	11	12
DCM CTE Agricultural Research Capstone			11	12

CTE: FAMILY & CONSUMER SCIENCES

COURSE	GRADE			
CTE Principles of Human Services	9	10	11	12
CTE Understanding Diversity		10	11	12
CTE Relationships & Emotions		10	11	12
DCM CTE Prin. of Teaching/EDUC F 200			11	12
DCM CTE Child Development/EDUC 214			11	12
DCM CTE Teaching & Learn./EDUC W 200				12
DCM CTE Ed Prof. Capstone/EDUC K 205				12

CTE: WORK-BASED LEARNING

COURSE	GRADE			
CTE Cooperative Education				12
CTE Work-Based Learning			11	12

CTE: BUSINESS & MARKETING

COURSE	GRADE			
CTE Principles of Business	9	10	11	12
CTE Marketing Fundamentals		10	11	12
CTE Strategic Marketing		10	11	12

CTE: RADIO & TV BROADCASTING

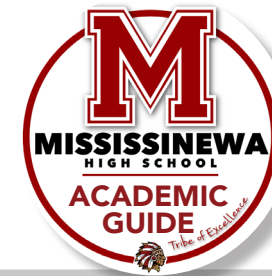
COURSE	GRADE			
CTE Principles of Broadcasting	9	10	11	12
CTE Audio & Video Production Essent.		10	11	12
CTE Mass Media Production		10	11	12
CTE Radio & TV Broadcasting Capstone			11	12

CTE: COMPUTER SCIENCE & IT

COURSE	GRADE			
AP Computer Science Principles	9	10	11	12
AP Computer Science A		10	11	12
CTE Principles of Computing	9	10	11	12
CTE Website & Database Development		10	11	12
CTE Software Development		10	11	12
CTE Software Development CAPSTONE			11	12

CAREER & TECHNICAL EDUCATION (CTE)

trade & industry



COURSES & CAREERS TO EXPLORE

CTE: TRADE & INDUSTRY

COURSE	GRADE			
DCM CTE Prin. of Crim. Justice/CRIM 101		10	11	12
DCM CTE Law Enf. Fund./CRIM 105		10	11	12
DCM CTE Cor. & Cult. Awar./CRIM 103			11	12
DCM CTE Crim. Just. Cap./CRIM 134/201			11	12

DCM CTE Principles of Criminal Justice/CRIM 101 - 7193 | 2 Semesters | 2 Credits

Principles of Criminal Justice covers the purposes, functions, and history of the three primary parts of the criminal justice system: law enforcement, courts, and corrections. This course further explores the interrelationships and responsibilities of these three primary elements of the criminal justice system.

- Recommended Grade(s): 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 for all diplomas

DCM CTE Law Enforcement Fundamentals/CRIM 105 - 7191 | 2 Semesters | 2 Credits

Law Enforcement Fundamentals Critically examines the history and nature of the major theoretical perspectives in criminology, and the theories found within those perspectives. Analyzes the research support for such theories and perspectives, and the connections between theory and criminal justice system practice within all the major components of the criminal justice system. Demonstrates the application of specific theories to explain violent and non-violent criminal behavior on both the micro and macro levels of analysis. Additionally, this course will introduce fundamental law enforcement operations and organization. This includes the evolution of law enforcement at federal, state, and local levels.

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

DCM CTE Corrections and Cultural Awareness/CRIM 103 - 7188 | 2 Semesters | 2 Credits

Corrections and Cultural Awareness emphasizes the study of American criminal justice problems and systems in historical and cultural perspectives, as well as discussing social and public policy factors affecting crime. Multidisciplinary and multicultural perspectives are stressed. Additionally, this course takes a further examination of the American correctional system; the study of administration of local, state, and federal correctional agencies. The examination also includes the history and development of correctional policies and practices, criminal sentencing, jails, prisons, alternative sentencing, prisoner rights, rehabilitation, and community corrections including probation and parole. Current philosophies of corrections and the debates surrounding the roles and effectiveness of criminal sentences, institutional procedures, technological developments, and special populations are discussed.

- Recommended Grade(s): 11, 12
- Required Prerequisites: Principles of Criminal Justice; Law Enforcement Fundamentals
- Recommended Prerequisites: none
- Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum
- Counts as a directed elective or elective for all diplomas

DCM CTE Criminal Justice Capstone/CRIM 134/201 - 7231 | 2 Semesters | 2 Credits

The Criminal Justice Capstone course allows students to complete additional instruction to earn a postsecondary certificate and should include a work-based learning component such as job 317 Indiana Department of Education High School Course Titles and Descriptions: 2023-2024 shadowing, internship, etc. once the core content is completed. Note that there may be age restrictions on work-based learning components.

- Recommended Grade(s): 11, 12
- Required Prerequisites: Principles of Criminal Justice; Law Enforcement Fundamentals, Corrections and Cultural Awareness
- Recommended Prerequisites: none
- Credits: 2 semester course, 2 semester required, 1-3 credits per semester, 6 credits max
- Counts as a Directed Elective or Elective for all diplomas

careers to explore

CORRECTIONAL OFFICERS

EMERGENCY MEDICAL TECHNICIANS

FIRE INSPECTORS AND INVESTIGATORS

FIREFIGHTERS

PARAMEDICS

PUBLIC SAFETY TELECOMMUNICATORS

ANIMAL CONTROL WORKERS

DETECTIVES

CRIMINAL INVESTIGATORS

FISH AND GAME WARDENS

FORENSIC SCIENCE TECHNICIANS

POLICE/SHERIFF'S PATROL OFFICERS

PARALEGALS AND LEGAL ASSISTANTS

SECURITY GUARDS

AUTOMOTIVE SERVICE TECHNICIANS

DIESEL ENGINE SPECIALISTS

ELECTRONIC EQUIPMENT INSTALLERS

RECREATIONAL VEHICLE SERVICE

LOGISTICS ANALYSTS

DISTRIBUTION MANAGERS

BILLING AND POSTING CLERKS

CARGO AND FREIGHT AGENTS

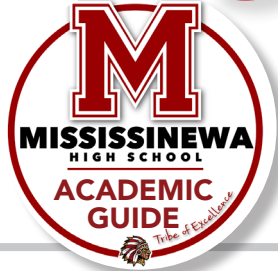
TRACTOR-TRAILER TRUCK DRIVERS

TRAFFIC TECHNICIANS

career & technical education CTE

Cutting-edge, rigorous and relevant Career and Technical Education (CTE) prepares students for a wide range of high-wage, high-skill, in-demand careers. **The mission of Career and Technical Education (CTE) is to ensure an education system of high quality and equity for the academic achievement and career preparation of all students.** Students in CTE programs gain the knowledge, skills and abilities needed for success after high school. A **CTE Concentrator** is a student who completes at least two non-duplicative advanced courses (beyond an introductory course) within a particular program or program of study. Indiana College and Career Pathways are an aligned sequence of high school and post-high school courses developed with input from business and industry, high school and post-high school education, and the community.

engineering



COURSES & CAREERS TO EXPLORE ENGINEERING

COURSE	GRADE			
CTE PLTW Intro. to Engineering Design	9	10	11	12
CTE PLTW Principles of Engineering		10	11	12
CTE PLTW Civil Engineering & Architecture		10	11	12

CTE PLTW Introduction to Engineering Design - 4802 | 2 Semesters | 2 Credits

Introduction to Engineering Design is a fundamental pre-engineering course where students become familiar with the engineering design process. Students work both individually and in teams to design solutions to a variety of problems using industry standard sketches and current 3D design and modeling software to represent and communicate solutions. Students apply their knowledge through hands-on projects and document their work with the use of an engineering notebook. Students begin with completing structured activities and move to solving open-ended projects and problems that require them to develop planning, documentation, communication, and other professional skills. Ethical issues related to professional practice and product development are also presented. Schools may use the PLTW curriculum to meet the standards for this course. Schools using the curriculum and are part of the Project Lead the Way network must follow all training and data collection requirements.

- Recommended Grade: 9, 10, 11, 12
- Recommended Prerequisites: Algebra 1
- Credits: 2 semester course, 2 semesters required, 1 credit per semester
- Counts as a Directed Elective or Elective for all diplomas

CTE PLTW Principles of Engineering - 5644 | 2 Semesters | 2 Credits

Principles of Engineering is a course that focuses on the process of applying engineering, technological, scientific and mathematical principles in the design, production, and operation of products, structures, and systems. This is a hands-on course designed to provide students interested in engineering careers to explore experiences related to specialized fields such as civil, mechanical, and materials engineering. Students will engage in research, development, planning, design, production, and project management to simulate a career in engineering. The topics of ethics and the impacts of engineering decisions are also addressed. Classroom activities are organized to allow students to work in teams and use modern technological processes, computers, CAD software, and production systems in developing and presenting solutions to engineering problems. Schools may use the PLTW curriculum to meet the standards for this course. Schools using the curriculum and are part of the Project Lead the Way network must follow all training and data collection requirements.

- Recommended Grade: 10, 11, 12
- Required Prerequisites: Introduction to Engineering Design
- Credits: 2 semester course, 2 semesters required, 1 credit per semester
- Counts as a Directed Elective or Elective for all diplomas
- Fulfills a science course requirement for all diplomas
- Qualifies as a quantitative reasoning course

CTE PLTW Civil Engineering and Architecture - 5650 | 2 Semesters | 2 Credits

Civil Engineering and Architecture introduces students to the fundamental design and development aspects of civil engineering and architectural planning activities. Application and design principles will be used in conjunction with mathematical and scientific knowledge. Computer software programs should allow students opportunities to design, simulate, and evaluate the construction of buildings and communities. During the planning and design phases, instructional emphasis should be placed on related transportation, water resource, and environmental issues. Activities should include the preparation of cost estimates as well as a review of regulatory procedures that would affect the project design. NOTE: This course aligns with the PLTW Civil Engineering and Architecture curriculum. Use of the PLTW Curriculum may require additional training and membership in the PLTW network.

- Recommended Grade(s): 10, 11, 12
- Required Prerequisites: Introduction to Engineering Design
- Recommended Prerequisites: none
- Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum
- Counts as a directed elective or elective for all diplomas
- Qualifies as a quantitative reasoning course

careers to explore

AEROSPACE ENGINEER
AERONAUTICAL ENGINEER
AGRICULTURAL ENGINEER
AGRICULTURAL TECHNICIAN
APPLICATION ENGINEER
ARCHITECTURAL ENGINEER
AUTOMOTIVE ENGINEER
BIOMEDICAL ENGINEER
BIOTECHNOLOGY ENGINEER
CHEMICAL ENGINEER
CIVIL ENGINEER
COMMUNICATIONS ENGINEER
COMPUTER ENGINEER
COMPUTER HARDWARE ENGINEER
SOFTWARE ENGINEER
CONSTRUCTION ENGINEER
CONSULTANT
DEVELOPMENT ENGINEER
DRAFTER
ELECTRICAL ENGINEER
ELECTRICIAN
ELECTRONICS TECHNICIAN
ENERGY TRANSMISSION ENGINEER
ENVIRONMENTAL ENGINEER
FACILITIES TECHNICIAN
FIRE PROTECTION ENGINEER
GEOTHERMAL ENGINEER
HAZARDOUS WASTE ENGINEER
HUMAN FACTORS ENGINEER
INDUSTRIAL ENGINEER
LICENSING ENGINEER
MANUFACTURING ENGINEER
MANUFACTURING TECHNICIAN
MARINE ENGINEER
MATERIALS SUPPLY TECHNICIAN
MECHANICAL ENGINEER
MINING ENGINEER
NAVAL ENGINEER
NETWORK TECHNICIAN
NUCLEAR ENGINEER
PACKAGING ENGINEER
PETROLEUM ENGINEER
PHARMACEUTICAL ENGINEER
PLASTICS ENGINEER
POWER SYSTEMS ENGINEER
PRODUCT DESIGN ENGINEER
PROJECT MANAGER

manufacturing



COURSES & CAREERS TO EXPLORE MANUFACTURING

COURSE	GRADE			
CTE Principles of Construction Trades	9	10	11	12
CTE Principles of Advanced Manufacturing	9	10	11	12
CTE Advanced Manufacturing Tech		10	11	12
CTE Industrial Electrical Fundamentals		10	11	12
CTE Industrial Electrical Capstone			11	12

CTE Principles of Construction Trades - 7130 | 2 Semesters | 2 Credits

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

- Recommended Grade(s): 9, 10, 11, 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 for all diplomas

DCM CTE Principles of Advanced Manufacturing/ADMF 101 - 7108 | 2 Semesters | 2 Credits

Principles of Advanced Manufacturing is a course that includes classroom and laboratory experiences in Industrial Technology and Manufacturing Trends. Domains include safety and impact, manufacturing essentials, lean manufacturing, design principles, and careers in advanced manufacturing. Hands-on projects and team activities will allow students to apply learning on the latest industry technologies. Work-based learning experiences and industry partnerships are highly encouraged for an authentic industry experience.

- Rec. Grade(s): 9, 10, 11, 12
- Req. Prerequisites: none
- Rec. Prereq.: Intro. to Adv. Manufacturing
- Credits: 2 sem. course, 2 sem. required, 1 credit per sem., 2 credits maximum
- Counts as a directed elective or elective for all diplomas

DCM CTE Advanced Manufacturing Technology/INDT 113/204 - 7103 | 2 Semesters | 2 Credits

Advanced Manufacturing Technology introduces manufacturing processes and practices used in manufacturing environments. The course also covers key electrical principles, including current, voltage, resistance, power, inductance, capacitance, and transformers, along with basic mechanical and fluid power principles. Topics include, types of production, production materials, machining and tooling, manufacturing planning, production control, and product distribution will be covered. Students will be expected to understand the product life cycle from conception through distribution. This course also focuses on technologies used in production processes. Basic power systems, energy transfer systems, machine operation and control will be explored. This course will use lecture, lab, online simulation and programming to prepare students for Certified Production Technician Testing through Manufacturing Skill Standards Council (MSSC).

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

DCM CTE Industrial Electrical Fundamentals/INDT 103/125 - 7102 | 2 Semesters | 2 Credits

The Industrial Electrical Fundamentals course will introduce students to the National Electric Code and its application in designing and installing electrical circuits, selecting wiring materials and devices, and choosing wiring methods. Students will also gain a general understanding of common types of electric motors.

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

DCM CTE Industrial Electrical Capstone/INDT 105-7260 | 2 Semesters | 2 Credits

Indiana Department of Education High School Course Titles and Descriptions: 2023-2024 The Industrial Electrical Capstone course is designed to provide an understanding of circuits using alternating current and the motor operation as well as the operation and programming of programmable logic controllers (PLC). The course will also examine the electrical components in a complex mechatronic system. This course will give each student a general understanding of common types of electric motors, extending from the small shaded pole fan motors to the large three-phase motors. This course will use lecture, lab, online simulation and programming to prepare students for the C-207 Programmable Controller Systems 1 Certification through Smart Automation Certification Alliance (SACA).

- Rec. Grade(s): 11, 12
- Required Prerequisites: Principles of Broadcasting
- Rec. Prerequisites: none
- Credits: 2 sem. course, 2 sem. required, 1 credit per sem., 2 credits maximum
- Counts as a Directed Elective or Elective for all diplomas

careers to explore

ASSEMBLER
AUTOMATED TECHNICIAN
BOOKBINDER
CALIBRATION TECHNICIAN
ELECTRICAL INSTALLER/REPAIRER
ELECTROMECHANICAL ASSEMBLER
MACHINE SETTER OPERATOR
EXTRUSION MACHINE OPERATOR
FOUNDRY WORKER
GRINDING, LAPPING, AND BUFFING
MACHINE OPERATOR
HAND PACKERS AND PACKAGER
HOIST AND WINCH OPERATOR
INSTRUMENT MAKER
LARGE PRINTING PRESS MACHINE
SETTER AND SET-UP OPERATOR
MACHINE OPERATOR
MANAGER, SUPERVISOR
MEDICAL APPLIANCE MAKER
MILLING MACHINE SETTER
MILLWRIGHT
OPERATOR, TENDER,
CUTTER/BRAZER, SOLDERER,
PAINTER
PATTERN & MODEL MAKER
PRECISION LAYOUT WORKER
PRECISION OPTICAL GOODS
WORKER
PRODUCTION ASSOCIATE
SHEET METAL WORKER
SOLDERER AND BRAZER
TOOL AND DIE MAKER
WELDER

health science



COURSES & CAREERS TO EXPLORE

CTE: HEALTH SCIENCE				
COURSE		GRADE		
DCM CTE Prin. of Healthcare/HLHS100		10	11	12
DCM CTE Medical Terminology/HLHS101		10	11	12
DCM CTE Healthcare Spec. CNA/HLHS107		10	11	12
DCM CTE Health. Spec. Cap. CCMA/HLHS			11	12
CTE PLTW Principles of Biomedical Science	9	10	11	12
CTE PLTW Human Body Systems		10	11	12
CTE PLTW Medical Interventions		10	11	12
CTE PLTW Biomedical Innovation			11	12

DCM CTE Principles of Healthcare/HLHS 100 - 7168 | 2 Semesters | 2 Credits

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

- Recommended Grade(s): 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 for all diplomas

DCM CTE Medical Terminology/HLHS 101 - 5274 | 2 Semesters | 2 Credits

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

- Recommended Grade(s): 10, 11, 12
- Required Prerequisites: none
- Recommended Prerequisites: none
- Credits: 2 semester course, 2 semesters required, 1 credit per semester, maximum of 2 credits
- Counts as a Directed Elective or Elective for all diplomas

DCM CTE Healthcare Specialist: CNA/HLHS 107 - 7166 | 2 Semesters | 2 Credits

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

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

DCM CTE Healthcare Specialist Capstone - 7255 | 2 Semesters | 1-3 credits per semester, 6 credits max.

The capstone course will provide Healthcare students acquire additional knowledge and skills necessary to work in a variety of health care settings beyond a long term care facility, including hospitals, doctor's offices and clinics. Students can accomplish this goal by completing coursework that will cover topics such as Medical Law and Ethics, Electronic Health Records, and/or Behavioral Health. Schools may offer additional healthcare certifications such as the 289 Indiana Department of Education High School Course Titles and Descriptions: 2023-2024 Certified Clinical Medical Assistant or Phlebotomy along with the coursework or in place of the coursework.

- Recommended Grade(s): 11, 12
- Required Prerequisites: Principles of Healthcare; Medical Terminology; Healthcare Specialist: CNA, EMT or Certified Clinical Medical Assistant (CCMA)
- Recommended Prerequisites: none
- Credits: 2 semester course, 2 semester required, 1-3 credits per semester, 6 credits max
- Counts as a Directed Elective or Elective for all diplomas

careers to explore

DIAGNOSTIC SERVICES

THERAPEUTIC SERVICES

HEALTH INFORMATICS

SUPPORT SERVICES

BIOTECHNOLOGY RESEARCH

BIOTECHNOLOGY DEVELOPMENT

EKG TECHNICIAN

PHLEBOTOMIST

RADIOLOGY TECHNICIAN

ULTRASOUND TECHNICIAN

DENTAL LABORATORY TECHNICIAN

CERTIFIED NURSE ASSISTANT (CNA)

PHARMACIST

OCCUPATIONAL THERAPIST

PARAMEDIC

RESPIRATORY THERAPIST

MEDICAL ADMINISTRATIVE ASSISTANT

HEALTH INFORMATION TECHNICIAN

NURSE MANAGER

MEDICAL TRANSCRIPTIONIST

HEALTH CARE ADMINISTRATOR

DIETARY TECHNICIAN

BIOMEDICAL EQUIPMENT TECHNICIAN

MEDICAL LIBRARIAN

HOSPITAL MAINTENANCE ENGINEER

CENTRAL SERVICES TECHNICIAN

TOXICOLOGIST

BIOMEDICAL ENGINEER

FORENSIC SCIENCE TECHNICIAN

CYTOTECHNOLOGIST

EPIDEMIOLOGIST

health science

CTE PLTW Principles of Biomedical Sciences - 5218 | 2 Semesters | 2 Credits

Principles of Biomedical Sciences provides an introduction to this field through "hands-on" projects and problems. Student work involves the study of human medicine, research processes and an introduction to bioinformatics. Students investigate the human body systems and various health conditions including heart disease, diabetes, hypercholesterolemia, and infectious diseases. A theme through the course is to determine the factors that led to the death of a fictional person. After determining the factors responsible for the death, the students investigate lifestyle choices and medical treatments that might have prolonged the person's life. Key biological concepts included in the curriculum are: homeostasis, metabolism, inheritance of traits, feedback systems, and defense against disease. Engineering principles such as the design process, feedback loops, fluid dynamics, and the relationship of structure to function will be included where appropriate. The course is designed to provide an overview of all courses in the Biomedical Sciences program and to lay the scientific foundation necessary for student success in the subsequent courses.

- Recommended Grade: 9, 10, 11, 12
- Required Prerequisites: Biology I or concurrent enrollment in Biology I is required
- 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 requirement for all diplomas

CTE PLTW Human Body Systems - 5216 | 2 Semesters | 2 Credits

Human Body Systems is a course designed to engage students in the study of basic human physiology and the care and maintenance required to support the complex systems. Using a focus on human health, students will employ a variety of monitors to examine body systems (respiratory, circulatory, and nervous) at rest and under stress, and observe the interactions between the various body systems. Students will use appropriate software to design and build systems to monitor body functions.

- Recommended Grade: 10, 11, 12
- Required Prerequisites: Principles of the Biomedical Sciences
- 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 requirement for all diplomas

CTE PLTW Medical Interventions - 5217 | 2 Semesters | 2 Credits

Medical Interventions is a course that studies medical practices including interventions to support humans in treating disease and maintaining health. Using a project-based learning approach, students will investigate various medical interventions that extend and improve the quality of life, including gene therapy, pharmacology, surgery, prosthetics, rehabilitation, and supportive care. Students will also study the design and development of various interventions. Lessons will cover the history of organ transplants and gene therapy with additional readings from current scientific literature addressing cutting edge developments.

- Recommended Grade: 10, 11, 12
- Required Prerequisites: Principles of Biomedical Sciences; Human Body Systems or Anatomy and Physiology
- 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 requirement for all diploma types

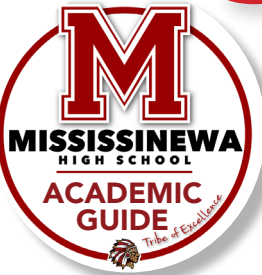
CTE PLTW Biomedical Innovations - 5219 | 2 Semesters | 2 Credits

Biomedical Innovation is a capstone course designed to give students the opportunity to design innovative solutions for the health challenges of the 21st Century as they work through progressively challenging open-ended problems, addressing topics such as clinical medicine, physiology, biomedical engineering, and public health. Students have the opportunity to work on an independent project and may work with a mentor or advisor from a healthcare or post-secondary industry. Throughout the course, students are expected to present their work to an adult audience that may include representatives from the local business and healthcare community. NOTE: This course aligns with the PLTW Biomedical Innovations curriculum. Use of the PLTW Curriculum may require additional training and membership in the PLTW network.

- Recommended Grade: 11, 12
- Required Prerequisites: Principles of the Biomedical Sciences; and Human Body Systems or Anatomy and Physiology, and Medical Interventions
- Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum
- Counts as a directed elective or elective for all diplomas
- This is a grade-weighted course.

notes

agriculture



Courses & Careers to Explore

CTE: AGRICULTURE				
COURSE	GRADE			
DCM CTE Principles of Agri./AGRI 100	9	10	11	12
DCM CTE Plant & Soil Science/AGRI 105		10	11	12
DCM CTE Food Science/AGRI 104		10	11	12
DCM CTE Agricultural Research CAPSTONE			11	12

DCM CTE Principles of Agriculture/AGRI100 - 7117 | 2 Semesters | 2 Credits

Principles of Agriculture is a two-semester course that will cover the diversity of the agricultural industry and agribusiness concepts. Students will develop an understanding of the role of agriculture in the United States and globally. Students will explore Agriculture, Food, and Natural Resource (AFNR) systems related to the production of food, fiber and fuel and the associated health, safety and environmental management systems. Topics covered in the course range from animals, plants, food, natural resources, ag power, structures and technology, and agribusiness. Participation in FFA and Supervised Agricultural Experiences (SAE) will be an integral part of this course in order to develop leadership and career ready skills.

- Recommended Grade(s): 9, 10, 11, 12
- Required Prerequisites: none
- Recommended Prerequisites: Introduction to Agriculture, Food and Natural Resources
- Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum
- Counts as a directed elective or elective credits for all diplomas

DCM CTE Plant & Soil Science/AGRI 105 | 2 Semesters | 2 Credits

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

- Recommended Grade(s): 10, 11, 12
 - Required Prerequisites: Principles of Agriculture*
 - Recommended Prerequisites: Introduction to Agriculture, Food and Natural Resources
 - Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum
 - Counts as a directed elective or elective for all diplomas
 - Fulfills a science course requirement for all diplomas
 - Fulfills a Physical Science requirement for the general diploma
- *Principles course is not required until the 2024-2025 school year because this course is included in Perkins V pathways. Students in the Class of 2025 and beyond must complete the course to earn concentrator status.

DCM CTE Food Science/AGRI 104 | 2 Semesters | 2 Credits

Food Science is a two semester course that provides students with an overview of food science and the role it plays in the securing of a safe, nutritious, and adequate food supply. A project-based approach is utilized in this course, along with laboratory, team building, and problem solving activities to enhance student learning. Students are introduced to the following areas of food science: food processing, food chemistry and physics, nutrition, food microbiology, preservation, packaging and labeling, food commodities, food regulations, issues and careers in the food science industry.

- Recommended Grade(s): 10, 11, 12
 - Required Prerequisites: Principles of Agriculture*
 - Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum
 - Counts as a directed elective or elective for all diplomas.
 - Fulfills a Life Science or Physical Science requirement for the General Diploma
- *Principles course is not required until the 2024-2025 school year because this course is included in Perkins V pathways. Students in the Class of 2025 and beyond must complete the course to earn concentrator status.

DCM CTE Agricultural Research Capstone | 2 Semesters | 1-3 credits per semester

The Agricultural Research Capstone includes extended laboratory, field, and literature investigations in one or more specialized agricultural science disciplines, such as animal, plant, food, natural resources, biotechnology, engineering, etc. Students enrolled in this course will apply scientific applications, concepts, principles, and design processes to solve complex, real-world issues in agriculture. Students will become familiar with laboratory procedures used in an educational, research, or industrial setting. Students will complete an end-of-course project and presentation, such as a scientific research paper, agriscience fair project, or some other suitable presentation of their findings. This course can be used as a capstone experience for any agriculture pathway.

- Recommended Grade(s): 11, 12
 - Required Prerequisites: Any Agriculture Concentrator Sequence
 - 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.
 - Counts as a quantitative reasoning course.
- *Principles course is not required until the 2024-2025 school year because this course is included in Perkins V pathways. Students in the Class of 2025 and beyond must complete the course to earn concentrator status.

careers to explore

BUYERS FARM PRODUCTS

FARM LABOR CONTRACTORS

AGRICULTURAL MANAGERS

ANIMAL BREEDERS

ANIMAL CARETAKERS

ANIMAL SCIENTISTS

FARMWORKERS

ENVIRONMENTAL TECHNICIANS

ENVIRONMENTAL ENGINEERS

HAZARDOUS MATERIALS REMOVERS

PEST CONTROL WORKERS

REFUSE MATERIAL COLLECTORS

WATER/WASTEWATER ENGINEERS

AGRICULTURAL TECHNICIANS

FORESTRY WORKERS

FOOD SCIENCE TECHNICIANS

GRADERS AND SORTERS

FISHING AND HUNTING WORKERS

CONSERVATION TECHNICIANS

HYDROLOGIC TECHNICIANS

LOGGING EQUIPMENT OPERATORS

WATER RESOURCE SPECIALISTS

ZOOLOGISTS

WILDLIFE BIOLOGISTS

BIOLOGICAL TECHNICIANS

GREENHOUSE WORKERS

PESTICIDE HANDLERS

SPRAYERS AND APPLICATORS

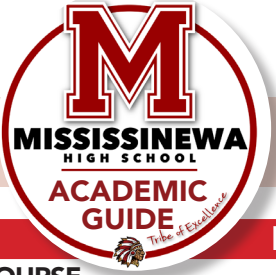
SOIL AND PLANT SCIENTISTS

TREE TRIMMERS AND PRUNERS

AGRICULTURAL ENGINEERS

AG EQUIPMENT OPERATORS

FARM EQUIPMENT MECHANICS



multidisciplinary

MULTIDISCIPLINARY				
COURSE	GRADE			
Peer Tutoring		10	11	12
Library Media		10	11	12

Library Media - 1082 | 1-2 Semesters | 1-2 Credits

Library Media is the study and application of procedures based on library science theory. Students examine the role of the library and technology in the current Information Age. Students use electronic resources for specific research needs and use multimedia presentation technology for practical applications.

- Recommended Grade: 10, 11, 12
- Required Prerequisites: none
- Recommended Prerequisites: none
- Credits: 1 semester course, 1 credit per semester
- Counts as an elective for all diplomas

Peer Tutoring | 1-2 Semesters | 1-2 Credits

Peer Tutoring provides high school students with an organized exploratory experience to assist exceptional education students in grades 9-12, through a helping relationship, with their studies and personal growth and development. The course provides opportunities for the students taking the course to develop a basic understanding of individual differences and to explore career options in related fields. Peer Tutoring experiences are preplanned by the teacher trainer and any cooperating teacher under whom the tutoring is to be provided. It must be conducted under the supervision of a licensed teacher. The course provides a balance of class work relating to the development of and use of: (1) listening skills, (2) communication skills, (3) facilitation skills, (4) decision-making skills, and (5) teaching strategies.

- Recommended Grade: 10, 11, 12
- Credits: 1 to 2 semester course, 1 credit per semester, 2 credits maximum
- Counts as an Elective for all diplomas

notes

family & consumer sciences



CTE: FAMILY & CONSUMER SCIENCES

COURSE	GRADE			
CTE Principles of Human Services	9	10	11	12
CTE Understanding Diversity		10	11	12
CTE Relationships & Emotions		10	11	12
DCM CTE Prin. of Teaching/EDUC F 200			11	12
DCM CTE Child Development/EDUC 214			11	12
DCM CTE Teaching & Learn./EDUC W 200				12
DCM CTE Ed Prof. Capstone/EDUC K 205				12

CTE Principles of Human Services | 2 Semesters | 2 Credits

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. The course includes a required job shadowing project in a Human Services setting (a suggested four-hour minimum to meet Ivy Tech requirements). 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(s): 9, 10, 11, 12
- Required Prerequisites: none
- Recommended Prerequisites: none
- Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits max.
- Counts as a directed elective or elective for all diplomas

Understanding Diversity | 2 Semesters | 2 Credits

Understanding Diversity encourages 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(s): 10, 11, 12
- Required Prerequisites: Principles of Human Services
- Recommended Prerequisites: none
- Credits: 2 sem. course, 2 sem. req., 1 credit per sem., 2 credits max.
- Counts as a directed elective or elective for all diplomas

CTE Relationships & Emotions | 2 Semesters | 2 Credits

Relationship & Emotions examines the key elements of healthy relationships. Explores the main problems that damage relationships. Presents research findings on successful and unsuccessful relationships, and emotional connections. 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.

- Rec. Grade(s): 10, 11, 12
- Required Prerequisites: Principles of Human Services
- Recommended Prerequisites: none
- Credits: 2 sem. course, 2 sem. req., 1 credit per sem., 2 credits max.
- Counts as a directed elective or elective for all diplomas

DCM CTE Principles of Teaching EDUC F 200 - 7161 | 2 Semesters | 2 Credits

Indiana University Kokomo - Tomorrow's Teachers I This course provides a general introduction to the field of teaching. Students will explore educational careers, teaching preparation, and professional expectations as well as requirements for teacher certification. Current trends and issues in education will be examined. A minimum 20 hour classroom observation experience is required for successful completion of this course.

- Recommended Grade(s): 11, 12
- Required Prerequisites: none 281 Indiana Department of Education High School Course Titles and Descriptions: 2023-2024
- 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

notes

careers to explore

COUNSELORS

MARRIAGE AND FAMILY THERAPISTS

SUBSTANCE ABUSE SOCIAL WORKERS

MENTAL HEALTH COUNSELORS

SCHOOL PSYCHOLOGIST

CHILDCARE WORKERS

COMMUNITY HEALTH WORKERS

HEALTH EDUCATION SPECIALISTS

HEALTHCARE SOCIAL WORKERS

COMMUNITY SERVICE MANAGERS

SOCIAL SERVICE ASSISTANTS

SOCIAL WORKERS

GROUP FITNESS INSTRUCTORS

FUNERAL HOME MANAGERS

HAIRDRESSERS

COSMETOLOGISTS

MORTICIANS, FUNERAL ARRANGERS

PERSONAL CARE AND SERVICE

WORKERS

CHILDCARE ADMINISTRATORS

PRESCHOOL WORKERS

CAREER COUNSELORS AND ADVISORS

PHYSICAL EDUCATION SPECIALISTS

ADULT BASIC EDUCATION

TEACHERS, POSTSECONDARY

CAREER/TECHNICAL EDUCATION

TEACHERS

COACHES AND SCOUTS

SPECIAL EDUCATION TEACHERS

FAMILY AND CONSUMER SCIENCES

MATHEMATICAL SCIENCE TEACHERS,

NURSING INSTRUCTORS AND

TEACHERS, PRESCHOOL TEACHERS

TEACHING ASSISTANTS

family & consumer sciences

DCM CTE Child Development EDUC P 214 - 7157 | 2 Semesters | 2 Credits

Indiana University Kokomo - Tomorrow's Teachers I 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(s): 11, 12
- Req. 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

DCM CTE Teaching & Learning EDUC W 200 - 7162 | 2 Semesters | 2 Credits

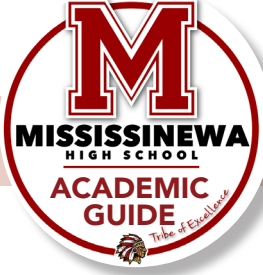
Indiana University Kokomo - Tomorrow's Teachers I Teaching and Learning provides students the opportunity to apply many of the concepts that they have learned throughout the Education Professions pathway. In addition to a focus on best practices, this course will provide an introduction to the role that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

- Recommended Grade(s): 12
- Required Prerequisites: Prin. 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 diplomas

DCM CTE Education Professions Capstone EDUC K 205 - 7267 | 2 Semesters | 2 Credits

Indiana University Kokomo - Tomorrow's Teachers I The Education Professions Capstone provides an extended opportunity for field experience to further apply concepts that have been presented throughout the pathway. Students will also have the opportunity to explore the topics of the exceptional child and literacy development through children's literature. Students will gain a deeper understanding of inclusive teaching 282 Indiana Department of Education High School Course Titles and Descriptions: 2023-2024 techniques along with policies, theories, and laws related to special education. Students interested in pursuing a career in Elementary Education are encouraged to also study the benefits of using children's literature in the classroom. This course may be further developed to include specific content for students interested in pursuing a career in secondary education. The course should include a significant classroom observation and assisting experience.

- Recommended Grade(s): 12
- Required Prerequisites: Principles of Teaching; Child and Adolescent Development, Teaching and Learning
- 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 diploma



work-based learning

CTE: WORK-BASED LEARNING

COURSE	GRADE			
CTE Cooperative Education				12
CTE Work-Based Learning			11	12

Cooperative Education - 6162 |

2 Semesters | 1-3 credits per semester | 6 credits maximum

Cooperative Education (COOP EDU) is an approach to employment training that spans all career and technical education program areas through school-based instruction and on the job training. Time allocations are a minimum of 15 hours per week of on-the-job training and approximately five hours per week of school-based instruction, focused on employability skills development. All state and federal laws and regulations related to student employment and cooperative education must be followed.

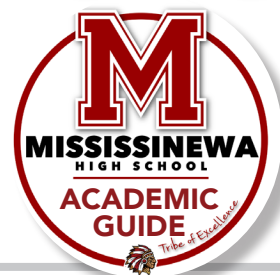
- Recommended Grade: 12
- Required Prerequisites: none
- Recommended Prerequisites: Preparing for College & Careers, 2 credits in career and technical education course
- Credits: 2 sem. course, 2 sem. required, 1-3 credits per sem., 6 credits max.
- Counts as a Directed Elective or Elective for all diplomas

Work-Based Learning |

Work-based learning (WBL) is a strategy to reinforce academic, technical, and social skills learned in the classroom through collaborative activities with employer partners. Experiences allow students to apply classroom theories to practical problems, to explore career options, and pursue personal and professional goals. Activities can occur in workplaces or school-based enterprises and involve an employer assigning a student meaningful job tasks to develop skills, knowledge, and readiness for work. It supports entry or advancement in a career field and can serve as the culminating course or event in a student's chosen career pathway. Students have the opportunity to apply the concepts, skills, and dispositions learned in previous coursework in real world settings. Governor's Work Ethic Certificate or Career Exploration Internship- time dedicated to WBL experiences during the school day (e.g., student schedule allows 1/2 day off campus to experience world of work)

- Paid or non-paid experience
- Must have at least 5 hours per week dedicated to employability skill development through a Career Exploration Internship
- Post-secondary credential is not embedded in pathway; WBL experience only
- This course code should be used to denote completion of the Graduation Pathways Employability Skills experience.
- Recommended Grade: 12
- Required Prerequisites: None
- Recommended Prerequisites: Preparing for College & Careers
- Credits: 0 credits, the experience may stretch over multiple semesters & should not be marked as passing until the designated person responsible for approving the work-based learning experience validates the WBL work product.
- Qualifies as the employability skills requirement for all diplomas.

business & marketing



COURSES & CAREERS TO EXPLORE

CTE: BUSINESS & MARKETING

COURSE	GRADE			
CTE Principles of Business	9	10	11	12
CTE Marketing Fundamentals		10	11	12
CTE Strategic Marketing		10	11	12

CTE Principles of Business - 7152 | 2 Semesters | 2 Credits

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, 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 for all diplomas

CTE Marketing Fundamentals - 5914 | 2 Semesters | 2 Credits

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

- 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 for all diplomas
- Formerly Principles of Marketing

CTE Strategic Marketing - 5918 | 2 Semesters | 2 Credits

Strategic Marketing builds upon the foundations of marketing and applies the functions of marketing at an advanced level. Students will study the basic principles of consumer behavior and examine the application of theories from psychology, social psychology, and economics. The relationship between consumer behavior and marketing activities will be reviewed.

- Recommended Grade: 10, 11, 12
- Recommended Prerequisites: Principles of Marketing
- Credits: 2 semester course, 2 semesters required, 1 credit per semester
- Counts as a Directed Elective or Elective for all diplomas

notes

careers to explore

- CHIEF EXECUTIVE OFFICER
- ENTREPRENEUR
- CONTROLLER
- ADJUSTER
- BUDGET, COST OR SYSTEMS ANALYST
- MARKETING MANAGER
- HUMAN RESOURCES MANAGER
- TRAINING SPECIALIST
- EXECUTIVE ASSISTANT
- WHOLESALE OR RETAIL BUYER
- RETAIL SALESPERSON
- MEETING AND CONVENTION PLANNER
- BOOKKEEPER
- OFFICE MANAGER
- RECEPTIONIST
- SEARCH MARKETING STRATEGISTS
- MANAGER OF SALES
- RESEARCHER
- SALES SPECIALIST
- DEMONSTRATOR OR PRODUCT PROMOTER
- WHOLESALE OR RETAIL BUYER
- DISTRIBUTOR
- PUBLIC RELATIONS MANAGER
- PUBLIC RELATIONS SPECIALIST
- MARKETING COMMUNICATIONS
- PROMOTIONS MANAGER
- COMMUNITY RELATIONS MANAGER
- E-MARKETER
- MARKETING CONSULTANT
- FASHION OR INTERIOR DESIGNER

radio & TV broadcasting



COURSES & CAREERS TO EXPLORE

CTE: RADIO & TV BROADCASTING

COURSE	GRADE			
CTE Principles of Broadcasting	9	10	11	12
CTE Audio & Video Production Essent.		10	11	12
CTE Mass Media Production		10	11	12
CTE Radio & TV Broadcasting Capstone			11	12

CTE Principles of Broadcasting - 7139 | 2 Semesters | 2 Credits

The purpose of the Principles of Broadcasting course is to provide entry-level fundamental skills for students who wish to seek or pursue opportunities in the field of broadcasting or mass media. Students will explore the technical aspects of audio and sound design for radio production and distribution, as well as, the technical aspects of video production and distribution.

- Recommended Grade(s): 9, 10, 11, 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 for all diplomas

CTE Audio and Video Production Essentials - 7306 | 2 Semesters | 2 Credits

Audio and Video Production Essentials provides an in-depth study on audio and video production techniques for radio, television, and digital technologies. Students will learn skills necessary for audio production and on-air work used in radio and other digital formats. Additionally, experience will be gained in the development of the video production process; including skills in message development, directing, camera, video switcher, and character generator operations.

- Recommended Grade(s): 10, 11, 12
- Required Prerequisites: Principles of Broadcasting
- Recommended Prerequisites: none
- Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum
- Counts as a Directed Elective or Elective for all diplomas

CTE Mass Media Production - 7307 | 2 Semesters | 2 Credits

Mass Media Production will focus on the study of theory and practice in the voice and visual aspects of radio and television performance. In addition, this course introduces the skills used to acquire and deliver news stories in a digital media format. Students will learn how to research issues and events, interview news sources, interact with law enforcement and government officials, along with learning to write in a comprehensive news style.

- Recommended Grade(s): 10, 11, 12
- Required Prerequisites: Principles of Broadcasting; Audio and Video Production Essentials
- Recommended Prerequisites: none
- Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum
- Counts as a Directed Elective or Elective for all diplomas

CTE Radio & TV Broadcasting Capstone | 2 Semesters | 2 Credits

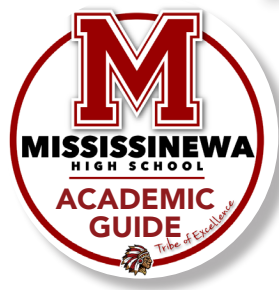
This course will cover a variety of domains further building on skills in video production, and broadcast industry practices specific to radio, television, and digital media. Attention will be given to cross-industry synergies, emerging technologies, and the global market for media. Students are highly encouraged to do a video newscast or radio practicum to gain real world experience. In most cases this practicum may be completed through a school-based enterprise.

- Recommended Grade(s): 11, 12
- Required Prerequisites: Principles of Broadcasting; Audio and Video Production Essentials; Mass Media Production
- Recommended Prerequisites: none
- Credits: 2 semester course, 2 semesters required, 1-3 credits per semester, 6 credits maximum

careers to explore

- AUDIO EQUIPMENT TECHNICIAN
- AUDIO-VIDEO DESIGNER
- ENGINEER
- VIDEO EQUIPMENT TECHNICIAN
- EDITOR
- GRAPHIC DESIGNER
- MULTIMEDIA ARTIST
- ANIMATOR
- PRODUCER
- SOUND ENGINEERING TECHNICIAN
- VIDEOGRAPHER
- JOURNALIST
- ART DIRECTOR
- BROADCAST TECHNICIAN
- EDITOR
- PROGRAM DIRECTOR
- RADIO, TV ANNOUNCER
- RADIO, TV REPORTER
- VIDEO OR WEB PRODUCER
- FILM MAKER
- GRAPHIC DESIGNER
- TELEVISION STUDIO PRODUCER
- STAGE DESIGNER
- PUBLISHER
- RADIO BROADCASTER

computer science & information technology



COURSES & CAREERS TO EXPLORE

CTE: COMPUTER SCIENCE & IT

COURSE	GRADE			
AP Computer Science Principles	9	10	11	12
AP Computer Science A		10	11	12
CTE Principles of Computing CTE	9	10	11	12
Website & Database Development		10	11	12
CTE Software Development		10	11	12
CTE Software Development Capstone			11	12

AP Computer Science Principles - 4568 | 2 Semesters | 2 Credits

The AP Computer Science Principles course is designed to be equivalent to a first-semester introductory college computing course. In this course, students will develop computational thinking skills vital for success across all disciplines, such as using computational tools to analyze and study data and working with large data sets to analyze, visualize, and draw conclusions from trends. The course engages students in the creative aspects of the field by allowing them to develop computational artifacts based on their interests. Students will also develop effective communication and collaboration skills by working individually and collaboratively to solve problems, and will discuss and write about the impacts these solutions could have on their community, society, and the world.

- Recommended Grade: 9, 10, 11, 12
- Recommended Prerequisites: Introduction to Computer Science, Algebra I
- Credits: 2 semester course, 1 credit per semester
- Counts as a Math Course for all diplomas
- Fulfills a science course requirement for all diplomas
- This is a grade-weighted course.

AP Computer Science A - 4570 | 2 Semesters | 2 Credits

AP Computer Science A introduces students to computer science through programming. Fundamental topics include the design of solutions to problems, the use of data structures to organize large sets of data, the development and implementation of algorithms to process data and discover new information, the analysis of potential solutions, and the ethical and social implications of computing systems. The course emphasizes object-oriented programming and design using the Java programming language. AP Computer Science A is equivalent to a first-semester, college-level course in computer science.

- Recommended Grade: 10, 11, 12
- Recommended Prerequisites: AP Computer Science Principles, Algebra II
- Credits: 2 semester course, 1 credit per semester
- Counts as a mathematics or elective for all diplomas
- Fulfills a science course requirement for all diplomas
- Qualifies as a quantitative reasoning course
- This is a grade-weighted course.

CTE Principles of Computing - 7183 | 2 Semesters | 2 Credits

Principles of Computing provides students the opportunity to explore how computers can be used in a wide variety of settings. The course will begin by exploring trends of computing and the necessary skills to implement information systems. Topics include operating systems, database technology, cybersecurity, cloud implementations and other concepts associated with applying the principles of good information management to the organization. Students will also have the opportunity to utilize basic programming skills to develop scripts designed to solve problems. Students will learn about algorithms, logic development and flowcharting.

- Recommended Grade(s): 9, 10, 11, 12
- Required Prerequisites: none
- Recommended Prerequisites: Introduction to Computer Science; Completed or Co-Enrolled in Algebra I
- Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum
- Counts as a directed elective or elective for all diplomas
- Counts as a quantitative reasoning course
- Counts as a science credit

careers to explore

COMPUTER SYSTEMS ENGINEERS

COMPUTER SUPPORT SPECIALISTS

IT PROJECT MANAGERS

SOFTWARE QUALITY ASSURANCE

WEB ADMINISTRATORS

COMPUTER NETWORK SUPPORT

DATABASE ARCHITECTS

INFORMATION SECURITY ANALYSTS

SOFTWARE DEVELOPERS

WEB DEVELOPERS

BOOKKEEPING, ACCOUNTING

DATA ENTRY KEYERS

ADMINISTRATIVE SUPPORT WORKERS

HUMAN RESOURCES ASSISTANTS

PATIENT REPRESENTATIVES

PAYROLL AND TIMEKEEPING CLERKS

PROCUREMENT CLERKS

RECEPTIONISTS

SECURITY MANAGERS

SUPPLY CHAIN MANAGERS

HUMAN RESOURCES MANAGERS

LABOR RELATIONS SPECIALISTS

TRAINING SPECIALISTS

FUNDRAISERS

QUALITY CONTROL MANAGERS

SECURITY MANAGEMENT SPECIALISTS

computer science & information technology

CTE Website & Database Development |

2 Semesters | 2 Credits

Website and Database Development will provide students a basic understanding of the essential Web and Database skills and business practices that directly relate to Internet technologies used in Web site and Database design and development. Students will learn to develop Web sites using Hypertext Markup Language (HTML) and Cascading Style Sheets (CSS). Additionally students will be introduced to the basic concepts of databases including types of databases, general database environments, database design, normalization and development of tables, queries, reports, and applications. Students will be familiarized with the use of ANSI Standard Structured Query Language. Students will be introduced to data concepts such as data warehousing, data mining, and BIG Data. Students will develop a business application using database software such as Microsoft Access.

- Recommended Grade(s): 10, 11, 12
- Required Prerequisites: Principles of Computing
- 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
- Counts as a quantitative reasoning course
- Counts as a science credit

CTE Software Development - 7184 | 2 Semesters | 2 Credits

Software Development introduces students to concepts and practices of programming languages and software development. Students are introduced to algorithms and development tools used to document/ implement computer logic. Discusses the history of software development, the different types of programming such as real time processing, web/database applications, and different program development environments. Concepts will be applied using 311 Indiana Department of Education High School Course Titles and Descriptions: 2023-2024 different programming languages, and students will develop and test working programs in an integrated system.

- Recommended Grade(s): 10, 11, 12
- Required Prerequisites: Principles of Computing
- 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
- Counts as a quantitative reasoning

CTE Software Development Capstone - 7253 |

2 Semesters | 2 Credits

Software Development Capstone provides a basic understanding of the fundamental concepts involved when using an object oriented programming language. The emphasis is on logical program design using a modular approach involving task-oriented program functions. Object-oriented concepts such as methods, attributes, inheritance, exception handling, and polymorphism are utilized. Applications are developed using these concepts and include developing a graphical user interface, selecting forms and controls, assigning properties and writing code. Students will also build upon their web design experiences in previous courses by taking an in-depth look into client- and server-side scripting aspects including Java Script and PHP: hypertext preprocessor along with other scripting tools.

- Recommended Grade(s): 11, 12
- Required Prerequisites: Principles of Computing; Website and Database Development; Software Development
- 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

notes

Marion Regional Career Center

Mississinewa Community Schools' students have the opportunity to enroll in courses available at the Marion Regional Career Center. Available programs include:

- Architectural Drafting
- Aviation Management
- Construction Trades
- Construction Trades: Electrical
- HVAC
- Plumbing and Pipefitting
- Graphic Communication
- Mechanical Drafting
- Welding
- Exercise Science (Athletic Training)
- EMT
- Pharmacy Tech (Health Science)

Early College High School & Tribe University



Mississinewa's **TRIBE UNIVERSITY** is an Early College High School model that gives our students a head start on the rest of their lives. Tribe University — Early College High School — allows students to earn BOTH a high school diploma AND up to two years of credits toward a bachelor's degree or an associate degree. Early College High Schools remove the academic, financial, and psychological barriers that prevent too many students from advancing to and succeeding in college. Students receive enhanced support to help them excel both academically and personally. Since students earn college credit while in high school, the time it takes to complete a college degree is condensed. Students and families also benefit from reduced or free tuition costs. Ultimately, Early College High Schools turn obstacles into opportunities.

2024-25 TRIBE UNIVERSITY COURSES

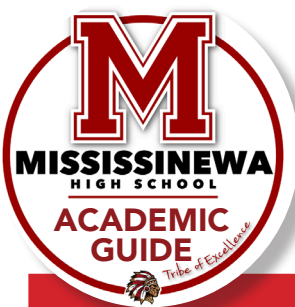
Mississinewa High School offers these 33 Early College High School courses to help students jumpstart their post-high school education and career paths. Students can earn up to two years or 60 college credits while in high school. Certificate and degree options are offered in these areas:

- **Criminal Justice**
- **Human & Social Services (Social Work)**
- **Early Childhood Education**
- **Agriculture**
- **Industrial Electrical Maintenance**
- **Education**
- **Healthcare Specialist: CNA**

Early College High School Diploma: 15 credit hours.
Indiana Common Core: 30 credit hours.
Associate's Degree: 60 credit hours.

MISSISSINEWA HIGH SCHOOL'S TRIBE UNIVERSITY COURSES

EARLY COLLEGE HIGH SCHOOL COURSE	GRADE				DESCRIPTION
Early College Honors English 9	9				Listed on Page 26
Early College Honors English 10	9	10			Listed on Page 26
DCM Advanced English/ENG 111		10	11	12	Listed on Page 26
DCM Advanced Composition/ENG 215		10	11	12	Listed on Page 27
DCM Advanced Literature/ENG 206			11	12	Listed on Page 27
DCM Advanced Speech/COMM 101		10	11	12	Listed on Page 28
DCM Quantitative Reasoning/MATH 123			11	12	Listed on Page 29
DCM College Algebra/MATH 136		10	11	12	Listed on Page 30
DCM Trigonometry/MATH 137		10	11	12	Listed on Page 30
DCM Chemistry/CHEM 101-121		10	11	12	Listed on Page 32
DCM CTE Anatomy & Physiology/APHY 101-102		10	11	12	Listed on Page 32
DCM Adv. Economics/ECON 101				12	Listed on Page 34
DCM Government/POLS 101				12	
DCM Music Appreciation/HUMA 118		10	11	12	Listed on Page 39
DCM CTE Principles of Agri./AGRI 100	9	10	11	12	Listed on Page 16
DCM CTE Plant & Soils/AGRI 105		10	11	12	Listed on Page 16
DCM CTE Food Science/AGRI 104		10	11	12	Listed on Page 16
DCM CTE Agricultural Research Capstone			11	12	Listed on Page 17
DCM CTE Principles of Teaching/EDUC 200			11	12	Listed on Page 18
DCM CTE Child Development/EDUC 214			11	12	Listed on Page 19
DCM CTE Teaching and Learning/EDUC 200				12	Listed on Page 19
DCM CTE Ed. Prof. Capstone/EDUC 205				12	Listed on Page 19
DCM CTE Principles of Criminal Justice/CRIM 101		10	11	12	Listed on Page 11
DCM CTE Law Enforcement Fundamentals/CRIM 105		10	11	12	Listed on Page 11
DCM CTE Principles of Healthcare/HLHS 100		10	11	12	Listed on Page 14
DCM CTE Medical Terminology/HLHS 101		10	11	12	Listed on Page 14
DCM CTE Healthcare Specialist CNA/HLHS 107		10	11	12	Listed on Page 14
CTE Principles of Advanced Manufacturing	9	10	11	12	Listed on Page 13
CTE Advanced Manufacturing Tech		10	11	12	Listed on Page 13
CTE Industrial Electrical Fundamentals		10	11	12	Listed on Page 13
CTE Industrial Electrical Capstone			11	12	Listed on Page 13
Early Childhood Education - Technical Certificate			11	12	Ivy Tech campus
Human and Social Services- Technical Certificate			11	12	Ivy Tech campus



2024-25 COURSE OFFERINGS

ENGLISH

COURSE	GRADE			
Early College Honors English 9	9			
English 9	9			
Early College Honors English 10	9	10		
English 10		10		
AP English Language and Composition		10	11	12
DCM Advanced English/ENG 111		10	11	12
English 11			11	
AP English Literature and Composition		11	12	12
DCM Advanced Composition/ENG 215		10	11	12
DCM Advanced Literature/ENG 206			11	12
English 12				12
AP Seminar			11	12
AP Research				12
DCM Advanced Speech/COMM101		10	11	12
Student Media (Publications)		10	11	12
Creative Writing		10	11	12
Biblical Literature		10	11	

WORLD LANGUAGES

COURSE	GRADE			
Spanish I	9	10	11	12
Spanish II	9	10	11	12
Spanish III		10	11	12
AP Spanish			11	12

SOCIAL STUDIES

COURSE	GRADE			
AP European History		10	11	12
Understanding Diversity		10	11	12
World Geography	9	10		
World History & Civilization	9	10		
AP World History Modern	9	10	11	12
U.S. History			11	
Honors US Government (We the People)				12
AP U.S. History			11	
AP U.S. Government				12
U.S. Government				12
Economics				12
DCM Advanced Economics/ECON101				12
AP Psychology		10	11	12

HEALTH & P.E.

COURSE	GRADE			
Physical Education I-II	9			
Health & Wellness Education		10		
Elective Physical Education	9	10	11	12
Elective PE Weight Training	9	10	11	12
Elective PE Adv. Phys. Cond. for Athletes	9	10	11	12
Elective PE Officiating			11	12

SCIENCE

COURSE	GRADE			
Integrated Chemistry & Physics	9	10	11	
Chemistry I	9	10	11	12
AP Environmental Science		10	11	12
Biology I	9	10	11	
CTE PLTW Prin. of Biomedical Science	9	10	11	12
CTE PLTW Human Body Systems		10	11	12
CTE PLTW Medical Interventions		10	11	12
CTE PLTW Biomedical Innovation			11	12
AP Chemistry			11	12
DCM Chemistry/CHEM101-121		10	11	12
AP Biology		10	11	12
Environmental Science		10	11	12
AP Physics I		10	11	12
AP Physics II			11	12
DCM CTE Anat. & Phys./APHY 101-102		10	11	12

MATHEMATICS

COURSE	GRADE			
Algebra I	9	10	11	
Geometry		10	11	12
Honors Geometry	9	10	11	12
Algebra II		10	11	12
Honors Algebra II	9	10	11	12
DCM Quantitative Reasoning/MATH123			11	12
Pre-Calculus			11	12
DCM College Algebra/MATH136/AP Pre-Cal		10	11	12
DCM Trigonometry/MATH137/AP Pre-Cal		10	11	12
AP Calculus AB			11	12
AP Calculus BC				12
AP Statistics			11	12

VISUAL ARTS

COURSE	GRADE			
Intro 2-D Art	9	10	11	12
Intro 3-D Art	9	10	11	12
Advanced 2-D Art		10	11	12
Advanced 3-D Art		10	11	12
Visual Communications		10	11	12
Drawing		10	11	12
Painting		10	11	12
Fiber Arts		10	11	12
Jewelry		10	11	12
Photography		10	11	12
AP Drawing			11	12
AP 2-D Art & Design			11	12
AP 3-D ART & DESIGN			11	12
DCM Music Appreciation/HUMA118		10	11	12

PERFORMING ARTS

COURSE	GRADE			
Crimson Choir	9	10	11	12
Ole Miss Singers	9	10	11	12
Concert Band	9	10	11	12
Piano/Electronic Keyboard	9	10	11	12
Theatre Arts	9	10	11	12
Advanced Theatre Arts		10	11	12

English 2024-25 courses

Early College Honors English 9 - 1002 | 2 Semesters | 2 Credits

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

- Recommended Grade: 9
- Recommended Prerequisites: 8th grade English teacher recommendation
- Credits: 2 semester course, 1 credit per semester
- Fulfills an English/Language Arts requirement for all diplomas
- This is a grade-weighted course.

English 9 - 1002 | 2 Semesters | 2 Credits

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

- Recommended Grade: 9
- Credits: 2 semester course, 1 credit per semester
- Fulfills an English/Language Arts requirement for all diplomas

Early College Honors English 10 - 1004 | 2 Semesters | 2 Credits

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

- Recommended Grade: 10
- Recommended Prerequisites: English 9 Honors with an A or B average or teacher recommendation
- Credits: 2 semester course, 1 credit per semester
- Fulfills an English/Language Arts requirement for all diplomas
- This is a grade-weighted course.

English 10 - 1004 | 2 Semesters | 2 Credits

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

- Recommended Grade: 10
- Credits: 2 semester course, 1 credit per semester
- Fulfills an English/Language Arts requirement for all diplomas

AP English Language and Composition - 1056 | 2 Semesters | 2 Credits

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

- Recommended Grade: 10, 11
- Recommended Prerequisites: English 10 Honors with an A or B average or teacher recommendation; Students should be able to read and comprehend college-level texts and apply the conventions of standard written English in their writing
- Credits: 2 semester course, 1 credit per semester
- Fulfills an English/Language Arts requirement for grades 11 or 12 for all diplomas
- This is a grade-weighted course.

DCM Advanced English/ENG 111 - 1006 | 1 Semester | 1 Credit

This course is designed for the student who is college bound and has maintained an A or B average in prior English classes. ENG111 is designed to develop students' abilities to think, organize, and express their ideas clearly and effectively in writing. This course incorporates reading, research, and critical thinking. Emphasis is placed on the various forms of expository writing such as process, description, narration, comparison, analysis, persuasion, and argumentation. A research paper is required. Numerous in-class writing activities are required in addition to extended essays written outside of class.

- Recommended Grade: 10, 11, 12
- Recommended Prerequisites: English 10 Honors with an A or B average or teacher recommendation; Students should be able to read and comprehend college-level texts and apply the conventions of standard written English in their writing
- Credits: 1 semester course, 1 credit
- Fulfills an English/Language Arts requirement for all diplomas
- This is a grade-weighted course.

English 2024-25 courses

DCM Advanced Literature/ENG 206 - 1124 | 1 Semester | 1 Credit

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.

- Recommended Grade: 11, 12
- Required Prerequisites: none
- 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.

English 11 - 1006 | 2 Semesters | 2 Credits

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

- Recommended Grade: 11
- Credits: 2 semester course, 1 credit per semester
- Fulfills an English/Language Arts requirement for all diplomas

AP English Literature & Composition - 1058 | 2 Semesters | 2 Credits

AP English Literature and Composition is a course based on the content established and copyrighted by the College Board. The course is not intended to be used as a dual credit course. The course engages students in the close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language to provide both meaning and pleasure. As they read, students consider a work's structure, style, and themes, as well as its use of figurative language, imagery, symbolism, and tone. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works.

- Recommended Grade: 11, 12
- Recommended Prerequisites: ENG111 or AP Language with an A or B average or teacher recommendation; Students should be able to read and comprehend college-level texts and apply the conventions of Standard written English in their writing.
- Credits: 2 semester course, 1 credit per semester
- Fulfills an English/Language Arts requirement for grades 11 or 12 for all diplomas
- This is a grade-weighted course.

DCM Advanced Composition/ENG 215 - 1008 | 1 Semester | 1 Credit

This course is designed for the student who is college bound and has maintained an A or B average in prior English classes. This advanced composition course emphasizes an inquiry-driven approach to research-based analytic and argumentative writing. Students will develop advanced analytical researching and writing skills by completing an extensive argumentative project.

- Recommended Grade: 10, 11, 12
- Required Prerequisites: ENG111 with an A or B average or a 3 or higher on the AP Language and Composition exam; Students should be able to read and comprehend college-level texts and apply the conventions of Standard written English in their writing.
- Credits: 1 semester course, 1 credit
- Fulfills an English/Language Arts requirement for all diplomas
- This is a grade-weighted course.

English 12 - 1008 | 2 Semesters | 2 Credits

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.

- Recommended Grade: 12
- Credits: 2 semester course, 1 credit per semester
- Fulfills an English/Language Arts requirement for all diplomas

AP Seminar - 0552 | 2 Semesters | 2 Credits

Seminar Advanced Placement is the first year foundational interdisciplinary course that is unique to the AP Capstone diploma program. AP Seminar is a foundational course that engages students in cross curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Using an inquiry framework, students practice reading and analyzing articles, research studies, and foundational literary and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. Students learn to synthesize information from multiple sources, develop their own perspectives in research-based written essays, and design and deliver oral and visual presentations, both individually and as part of a team. Ultimately, the course aims to equip students with the power to analyze and evaluate information with accuracy and precision in order to craft and communicate evidence-based arguments.

- Recommended Grade: 11, 12
- Required Prerequisites: Recommendation from AP teacher and previous AP coursework
- Credits: 2 semester course, 1 credit per semester
- Counts as an Elective for all diplomas
- This is a grade-weighted course.

AP Research - 0551 | 2 Semesters | 2 Credits

AP Research is the second year foundational interdisciplinary course that is unique to the AP Capstone diploma program. AP Research allows students to deeply explore an academic topic, problem, or issue of 23 Indiana Department of Education High School Course Titles and Descriptions individual interest. Through this exploration, students design, plan, and conduct a year-long research based investigation to address a research question. In the AP Research course, students further their skills acquired in the AP Seminar course by understanding research methodology; employing ethical research practices; and accessing, analyzing, and synthesizing information as they address a research question. Students explore their skill development, document their processes, and curate the artifacts of the development of their scholarly work in a portfolio. The course culminates in an academic paper of approximately 4000–5000 words (accompanied by a performance or exhibition of product where applicable) and a presentation with an oral defense.

- Recommended Grade: 12
- Required Prerequisites: AP Seminar
- Credits: 2 semester course, 1 credit per semester
- Counts as an Elective for all diplomas
- This is a grade-weighted course.

English 2024-25 courses

DCM Advanced Speech/COMM 101 - 1078 | 1 Semester | 1 Credit

Advanced Speech and Communication, a course based on the Indiana Academic Standards for English/Language Arts and emphasizing the High School Speech and Communication Standards, is the study and application of skills in listening, oral interpretation, media communications, research methods, and oral debate. Students deliver different types of oral and multimedia presentations, including speeches to inform, to motivate, to entertain, and to persuade through the use of impromptu, extemporaneous, memorized, or manuscript delivery.

- Recommended Grade: 10, 11, 12
- Credits: 1 semester course, 1 credit per semester
- Counts as an Elective for all diplomas
- This is a grade-weighted course for students who qualify for dual credit.

Student Media - 1086 | 2 Semesters | 2 Credits

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 staff so that they may prepare themselves for career paths in journalism, communications, writing, or related fields.

- Recommended Grade: 10, 11, 12
- Credits: 1-8 credits; The nature of this course allows for successive semesters of instruction at advanced levels. May be offered over three or four years by subtitling 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

Creative Writing - 1092 | 1 Semester | 1 Credit

Creative Writing, a course based on the Indiana Academic Standards for English/Language Arts, is a study and application of the rhetorical writing strategies for prose and poetry. Using the writing process, students demonstrate a command of vocabulary, the nuances of language and vocabulary, English language conventions, an awareness of the audience, the purposes for writing, and the style of their own writing. Course can be offered in conjunction with a literature course, or schools may embed Indiana Academic Standards for English/Language Arts reading standards within curriculum.

- Recommended Grade: 10, 11, 12
- Required Prerequisites: none
- Recommended Prerequisites: English 9, English 10, or teacher recommendation
- Credits: 1 semester course, 1 credit per semester
- Counts as an Elective for all diplomas
- This is a grade-weighted course for students who qualify for dual credit.
- Fulfills an English/Language Arts requirement for all diplomas

Biblical Literature - 1022 | 1 Semester | 1 Credit

Biblical Literature, a course based on the Indiana Academic Standards for English/Language Arts, is a study of the Bible, viewed from a literary standpoint, as a source of a wide variety of High School Course Titles and Descriptions 2022-2023 69 literary patterns, themes, and conventions. Students examine the different books in relation to the various historical time frames of the books and in relation to related literature as it pertains to Biblical themes. Students read, discuss, and write about Biblical references (allusions) in both classical and modern literature, formation of a canonical Bible, inclusion of apocryphal and heretical writings, oral versus literate transmission of sacred history and doctrine, and questions and problems of interpretation. Course can be offered in conjunction with a composition course, or schools may embed Indiana Academic Standards for English/Language Arts writing standards within the curriculum.

- Recommended Grade: 10, 11, 12
- Required Prerequisites: none
- Recommended Prerequisites: English 9, English 10, or teacher recommendation
- Credits: 1 to 2 semester course, 1 credit per semester
- Fulfills an English/Language Arts requirement for all diplomas

notes

Mathematics 2024-25 courses

Algebra I - 2520 | 2 Semesters | 2 Credits

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

- Recommended Grade: 9, 10, 11
- Required Prerequisites: None
- Recommended Prerequisites: None
- 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

Geometry - 2532 | 2 Semesters | 2 Credits

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

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

Honors Geometry - 2532 | 2 Semesters | 2 Credits

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

- Recommended Grade: 9, 10, 11, 12
- Recommended Prerequisites: Algebra I with an A or B average
- 2 semester course, 1 credit per semester
- Counts as a Mathematics course for all diplomas
- Fulfills the Geometry requirement for the Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- This is a grade-weighted course.

Algebra II - 2522 | 2 Semesters | 2 Credits

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

- Recommended Grade: 9, 10, 11, 12
- Recommended Prerequisites: Algebra I and Geometry
- 2 semester course, 1 credit per semester
- Counts as a Mathematics course for all diplomas
- Fulfills the Algebra II requirement for all diplomas

Honors Algebra II - 2522 | 2 Semesters | 2 Credits

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

- Recommended Grade: 9, 10, 11, 12
- Rec. Prerequisites: Algebra I and Geometry Honors with an A or B average
- 2 semester course, 1 credit per semester
- Counts as a Mathematics course for all diplomas
- Fulfills the Algebra II requirement for all diplomas
- This is a grade-weighted course.

DCM Quantitative Reasoning/MATH 123 - 2550 | 2 Semesters | 2 Credits

Quantitative Reasoning is a mathematics course focused on the study of numeracy, ratio and proportional reasoning, modeling, probabilistic reasoning to assess risk, and statistics. Students build knowledge of and confidence with basic mathematical/analytical concepts and operations required for problem solving, decision making, and economic productivity in real-world applications and prepare for an increasingly information-based society in which the ability to use and critically evaluate information, especially numerical information, is essential. Technology, such as computers and graphing calculators, should be used frequently. This higher-level mathematics course is designed to align with college-level quantitative reasoning courses for dual secondary/college credit. The eight Process Standards for Mathematics apply throughout the course. Together with the content standards, the Process Standards prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

- Recommended Grade: 11, 12
- Recommended Prerequisites: Algebra II
- 2 semester course, 1 credit per semester
- Counts as a Mathematics course for all diplomas
- This is a grade-weighted course for students who qualify for dual credit.

Mathematics 2024-25 courses

Pre-Calculus - 2564 | 2 Semesters | 2 Credits

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.

- *Recommended Grade:* 11, 12
- *Required Prerequisites:* Algebra II and Geometry
- *2 semester course, 1 credit per semester*
- *Counts as a Mathematics course for all diplomas*

DCM College Algebra & Trigonometry/MATH 136-137 - 2564 | 2 Semesters | 2 Credits

Presents an in-depth study of functions, quadratic, polynomial, radical, and rational equations, radicals, complex numbers, systems of equations, rational fractions and exponential and logarithmic functions. Presents an in-depth study of right triangle trigonometry, oblique triangles, vectors, graphs of trigonometric functions, trigonometric identities and equations and complex numbers in rectangular and polar/trigonometric forms, rectangular and polar coordinates and conics. MATH 136 and MATH 137 together comprise a standard two-semester college algebra and trigonometry course.

- *Recommended Grade:* 10, 11, 12
- *Recommended Prerequisites:* Honors Algebra II and Geometry Honors with an A or B average
- *2 semester course, 1 credit per semester*
- *Counts as a Mathematics course for all diplomas*
- *This is a grade-weighted course.*

AP Pre-Calculus (PreCalc AP) - 2563 | 2 Semesters | 2 Credits

AP Pre-Calculus 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. This course covers topics including modeling real-world data, exploring multiple representations, and mastering symbolic manipulation. The course teaches students to approach precalculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and to make connections amongst these representations. Students learn how to use technology to help solve problems, experiment, interpret results, and support conclusions.

- *Recommended Grade:* 10, 11, 12
- *Required Prerequisites:* Algebra I
- *Recommended Prerequisites:* Geometry and/or Algebra II
- *Credits:* 2 semester course, 1 credit per semester
- *Counts as a mathematics course for all diplomas.*

AP Calculus AB - 2562 | 2 Semesters | 2 Credits

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

- *Recommended Grade:* 11, 12
- *Required Prerequisites:* Math 136/137
- *Credits:* 2 semester course, 1 credit per semester
- *Counts as a Mathematics Course for all diplomas*
- *Qualifies as a quantitative reasoning course*
- *This is a grade-weighted course.*

AP Calculus BC - 2572 | 2 Semesters | 2 Credits

AP Calculus BC is a course based on the content established and copyrighted by the College Board. The course is not intended to be used as a dual credit course. AP Calculus BC is roughly equivalent to both first and second semester college calculus courses and extends the content learned in AP Calculus AB to different types of equations and introduces the topic of sequences and series. This course covers topics in differential and integral calculus, including concepts and skills of limits, derivatives, definite integrals, the Fundamental Theorem of Calculus, and series. The course teaches students to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and to make connections amongst these representations. Students learn how to use technology to help solve problems, experiment, interpret results, and support conclusions. The content of AP Calculus BC is designed to qualify the student for placement and credit in a course that is one course beyond that granted for AP Calculus AB.

- *Recommended Grade:* 12
- *Required Prerequisites:* AP Calculus AB
- *Credits:* 2 semester course, 1 credit per semester
- *Counts as a Mathematics Course for all diplomas*
- *Qualifies as a quantitative reasoning course*
- *This is a grade-weighted course.*

AP Statistics - 2570 | 2 Semesters | 2 Credits

AP Statistics is a course based on the content established and copyrighted by the College Board. The course is not intended to be used as a dual credit course. The AP Statistics course is equivalent to a one semester, introductory, non-calculus-based college course in statistics. The course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. There are four themes in the AP Statistics course: exploring data, sampling and experimentation, anticipating patterns, and statistical inference. Students use technology, investigations, problem solving, and writing as they build conceptual understanding.

- *Recommended Grade:* 11, 12
- *Recommended Prerequisites:* Algebra II
- *Credits:* 2 semester course, 1 credit per semester
- *Counts as a Mathematics Course for all diplomas*
- *Qualifies as a quantitative reasoning course*
- *This is a grade-weighted course.*

Science 2024-25 courses

Integrated Chemistry - Physics - 3108 | 2 Semesters | 2 Credits

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

- *Recommended Grade:* 9, 10, 11
- *Required Prerequisites:* none
- *Rec. Prerequisites:* Algebra I (may be taken concurrently with this course)
- *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*

Chemistry I - 3064 | 2 Semesters | 2 Credits

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.

- *Recommended Grade:* 9, 10, 11, 12
- *Recommended Prerequisites:* Algebra I and Biology I
- *Credits:* 2 semester course, 1 credit per semester
- *Fulfills a science (physical) course requirement for all diplomas*
- *Qualifies as a quantitative reasoning course*

AP Environmental Science - 3012 | 2 Semesters | 2 Credits

AP Environmental Science is a course based on content established and copyrighted by the College Board. The course is not intended to be used as a dual credit course. Students enrolled in AP Environmental Science investigate the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them.

- *Recommended Grade:* 10, 11, 12
- *Recommended Prerequisites:* Biology I and Chemistry I
- *Credits:* 2 semester course, 1 credit per semester
- *Counts as a Science Course for all diplomas*
- *Qualifies as a quantitative reasoning course*
- *This is a grade-weighted course.*

Biology I - 3024 | 2 Semesters | 2 Credits

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.

- *Recommended Grade:* 9, 10, 11
- *Required Prerequisites:* none
- *Recommended Prerequisites:* none
- *Credits:* 2 semester course, 1 credit per semester
- *Fulfills the Biology requirement for all diplomas*

CTE PLTW Principles of Biomedical Sciences - 5218 | 2 Semesters | 2 Credits

Principles of Biomedical Sciences provides an introduction to this field through “hands-on” projects and problems. Student work involves the study of human medicine, research processes and an introduction to bioinformatics. Students investigate the human body systems and various health conditions including heart disease, diabetes, hypercholesterolemia, and infectious diseases. A theme through the course is to determine the factors that led to the death of a fictional person. After determining the factors responsible for the death, the students investigate lifestyle choices and medical treatments that might have prolonged the person’s life. Key biological concepts included in the curriculum are: homeostasis, metabolism, inheritance of traits, feedback systems, and defense against disease. Engineering principles such as the design process, feedback loops, fluid dynamics, and the relationship of structure to function will be included where appropriate. The course is designed to provide an overview of all courses in the Biomedical Sciences program and to lay the scientific foundation necessary for student success in the subsequent courses.

- *Recommended Grade:* 9, 10, 11, 12
- *Required Prerequisites:* Biology I or concurrent enrollment in Biology I is required
- *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 requirement for all diplomas*

CTE PLTW Human Body Systems - 5216 | 2 Semesters | 2 Credits

Human Body Systems is a course designed to engage students in the study of basic human physiology and the care and maintenance required to support the complex systems. Using a focus on human health, students will employ a variety of monitors to examine body systems (respiratory, circulatory, and nervous) at rest and under stress, and observe the interactions between the various body systems. Students will use appropriate software to design and build systems to monitor body functions.

- *Recommended Grade:* 10, 11, 12
- *Required Prerequisites:* Principles of the Biomedical Sciences
- *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 requirement for all diplomas*

CTE PLTW Medical Interventions - 5217 | 2 Semesters | 2 Credits

Medical Interventions is a course that studies medical practices including interventions to support humans in treating disease and maintaining health. Using a project-based learning approach, students will investigate various medical interventions that extend and improve the quality of life, including gene therapy, pharmacology, surgery, prosthetics, rehabilitation, and supportive care. Students will also study the design and development of various interventions. Lessons will cover the history of organ transplants and gene therapy with additional readings from current scientific literature addressing cutting edge developments.

- *Recommended Grade:* 10, 11, 12
- *Required Prerequisites:* Principles of Biomedical Sciences; Human Body Systems or Anatomy and Physiology
- *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 requirement for all diploma types*

notes

Science 2024-25 courses

CTE PLTW Biomedical Innovations - 5219 | 2 Semesters | 2 Credits

Biomedical Innovation is a capstone course designed to give students the opportunity to design innovative solutions for the health challenges of the 21st Century as they work through progressively challenging open-ended problems, addressing topics such as clinical medicine, physiology, biomedical engineering, and public health. Students have the opportunity to work on an independent project and may work with a mentor or advisor from a healthcare or post- secondary industry. Throughout the course, students are expected to present their work to an adult audience that may include representatives from the local business and healthcare community. NOTE: This course aligns with the PLTW Biomedical Innovations curriculum. Use of the PLTW Curriculum may require additional training and membership in the PLTW network.

- *Recommended Grade:* 11, 12
- *Required Prerequisites:* *Principles of the Biomedical Sciences; and Human Body Systems or Anatomy and Physiology, and Medical Interventions*
- *Credits:* 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum
- *Counts as a directed elective or elective for all diplomas*
- *This is a grade-weighted course.*

AP Chemistry - 3060 | 2 Semesters | 2 Credits

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

- *Recommended Grade:* 11, 12
- *Recommended Prerequisites:* *Chemistry I, Algebra II, Pre-Calculus/Trigonometry, CHEM 101/121*
- *Credits:* 2 semester course, 1 credit per semester
- *Counts as a Science Course for all diplomas*
- *Qualifies as a quantitative reasoning course*
- *This is a grade-weighted course.*

DCM Chemistry/CHEM 101-121 - 3090 | 2 Semesters | 2 Credits

This dual credit chemistry course provides an introduction to aspects of general chemistry and an introduction to the techniques and reasoning of experimental chemistry.

- *Recommended Grade:* 10, 11, 12
- *Required Prerequisites:* *Algebra I, Chemistry I*
- *Credits:* 2 semester course, 1 credit per semester
- *Counts as a Science Course for all diplomas*
- *Qualifies as a quantitative reasoning course*
- *This is a grade-weighted course.*

AP Biology - 3020 | 2 Semesters | 2 Credits

AP Biology is a course based on the content established and copyrighted by the College Board. The course is not intended to be used as a dual credit course. The major themes of the course include: The process of evolution drives the diversity and unity of life, Biological systems utilize free energy and molecular building blocks to grow, to reproduce and to maintain dynamic homeostasis, Living systems store, retrieve, transmit and respond to information essential to life processes, Biological systems interact, and these systems and their interactions possess complex properties.

- *Recommended Grade:* 10, 11, 12
- *Required Prerequisites:* *none*
- *Recommended Prerequisites:* *Biology I and Chemistry I*
- *Credits:* 2 semester course, 1 credit per semester
- *Counts as a science course for all diplomas*
- *Qualifies as a quantitative reasoning course*
- *Laboratory course*

Environmental Science - 3010 | 2 Semesters | 2 Credits

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.

- *Recommended Grade:* 10, 11, 12
- *Recommended Prerequisites:* *Successful completion of Biology I and ICP*
- *Credits:* 2 semester course, 1 credit per semester
- *Counts as an Elective for all diplomas*
- *Fulfills a science (life) course requirement for all diplomas*

AP Physics I: Algebra-Based - 3080 | 2 Semesters | 2 Credits

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

- *Recommended Grade:* 10, 11, 12
- *Recommended Prerequisites:* *Algebra I*
- *Credits:* 2 semester course, 1 credit per semester
- *Counts as a Science Course for all diplomas*
- *Qualifies as a quantitative reasoning course*
- *This is a grade-weighted course.*

AP Physics II: Algebra-Based (L) - 3081 | 2 Semesters | 2 Credits

AP Physics 2 is a course based on the content established and copyrighted by the College Board. The course is not intended to be used as a dual credit course. AP Physics 2: Algebra- based is equivalent to a second-semester college course in algebra-based physics. The course covers fluid mechanics; thermodynamics; electricity and magnetism; optics; atomic and nuclear physics.

- *Recommended Grade:* 11, 12
- *Recommended Prerequisites:* *AP Physics 1: Algebra-based*
- *Credits:* 2 semester course, 1 credit per semester
- *Counts as a Science Course for all diplomas*
- *Qualifies as a quantitative reasoning course*
- *This is a grade-weighted course.*

DCM CTE Anatomy and Physiology/APHY101-102 - 5276/3090 | 2 Semesters | 2 Credits

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

- *Recommended Grade:* 10, 11, 12
- *Required Prerequisites:* *Biology I and Chemistry I*
- *2 semester course, 1 credit per semester, 2 credits maximum*
- *Counts as a Directed Elective or Elective for all diplomas*
- *Fulfills a science course requirement for all diplomas*
- *This is a grade-weighted course for students who qualify for dual credit.*

Social Studies 2024-25 courses

Understanding Diversity | 2 Semesters | 2 Credits

Understanding Diversity encourages 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 U.S.

- *Recommended Grade(s):* 10, 11, 12
- *Required Prerequisites:* *Principles of Human Services*
- *Recommended Prerequisites:* *none*
- *Credits:* 2 semester course, 2 semesters req., 1 credit per semester, 2 credits max.
- *Counts as a directed elective or elective for all diplomas*

World Geography - 1546 | 1 Semester | 1 Credit

World Geography allows students to study the interaction of humans and their environments in a world setting. Students study global patterns of physical and cultural characteristics, including the Earth/sun relationship, atmospheric and oceanic circulation, landforms, climate, vegetation, population, economic and political structures, culture, cultural diffusion, and international and interregional connections. Using maps, geographic representations and technology such as geographic information systems (GIS), students will examine spatial relationships, the interaction of physical and cultural characteristics of designated places, areas, or regions. Students are expected to apply knowledge of geographic concepts and uses of geography to inquiry, research, and use participatory processes. The themes of location, characteristic of place, human/ environmental interaction, movement between places, and regions anchor the course content. Emphasized are elements of the National Geography Standards: The World in Spatial Terms, Places and Regions, Physical Systems, Human Systems and Environment and Society.

- *Recommended Grade:* 9, 10
- *Credits:* 1 semester course, 1 credit
- *Fulfills the Geography History of the World/World History and Civilization graduation requirement for all diplomas*

World History and Civilization - 1548 | 2 Semesters | 2 Credits

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

- *Recommended Grade:* 9, 10
- *Credits:* 2 semester course, 1 credit per semester
- *Fulfills the Geography History of the World/World History and Civilization graduation requirement for all diplomas*

United States History - 1542 | 2 Semesters | 2 Credits

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

- *Recommended Grade:* 11
- *Credits:* 2 semester course, 1 credit per semester
- *Fulfills the US History requirement for all diplomas*

AP World History Modern - 1612 | 2 Semesters | 2 Credits

AP World History Modern AP World History Modern is designed to be the equivalent of a two- semester introductory college or university world history course. According to the College Board AP World History Modern students “investigate significant events, individuals, developments, and processes in historical periods from approximately 1200 CE to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; making historical comparisons; utilizing reasoning about contextualization, causation, and continuity and change over time; and developing historical arguments. The course provides five themes that students explore throughout the course in order to make connections among historical developments in different times and places: interaction between humans and the environment; development and interaction of cultures; state building, expansion, and conflict; creation, expansion, and interaction of economic systems; and development and transformation of social structures.

- *Recommended Grade:* 9, 10, 11, 12
- *Recommended Prerequisites:* *Students should be able to read a college level textbook and write grammatically correct, complete sentences.*
- *Credits:* 2 semester course, 1 credit per semester
- *Fulfills the 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*
- *This is a grade-weighted course.*

AP European History - 1556 | 1 Semester | 1 Credit

AP European History is a course based on the content established and copyrighted by the College Board. The course is not intended to be used as a dual credit course. In AP European History students investigate significant events, individuals, developments, and processes in four historical periods from approximately 1450 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing historical evidence; contextualization; comparison; causation; change and continuity over time; and argument development. The course also provides six themes that students explore throughout the course in order to make connections among historical developments in different times and places: interaction of Europe and the world; poverty and prosperity; objective knowledge and subjective visions; states and other institutions of power; individual and society; and national and European identity.

- *Recommended Grade:* 10, 11, 12
- *Recquired Prerequisites:* *None*
- *Credits:* 1 to 2 semester course, 1 credit

Honors United States Government (We the People) - 1540 | 1 Semester | 1 Credit

This inquiry and research-based version of the United States Government embraces the We the People: The Citizen and the Constitution curriculum. Students examine the structures and functions of the various levels of government and the constitutional principles behind the protection of individual rights. They grow to understand the nature of citizenship, politics, and government and how the United States government interacts with other nations. They evaluate the United States’ role in world affairs and become able to explain how their rights and responsibilities as citizens are part of local, state, and national government in the United States today. This course enriches students’ understanding of the Constitution and Bill of Rights. The course culminates in a simulated congressional hearing activity in which students “testify” before a panel of judges and demonstrate their knowledge and understanding of constitutional principles by evaluating and defending positions on relevant historical and contemporary issues. All students who enroll in this course must participate in the Indiana We the People regional invitational class team competition. Winners of the district competition can advance to state and national competitions.

- *Recommended Grade:* 11, 12 (fall semester)
- *Required Prerequisite:* *US History*
- *Credits:* 1 semester course, 1 credit per semester
- *Counts as an Elective for all diplomas*
- *This is a grade-weighted course.*

Social Studies

2024-25 courses

AP United States History | 1 Semester | 1 Credit

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

- *Recommended Grade:* 11
- *Required Prerequisites:* none
- *Recommended Prerequisites:* none
- *Students should be able to read and comprehend college-level texts and apply the conventions of Standard Written English in their writing.*
- *Credits:* 2 semester course, 1 credit per semester
- *Fulfills the US history requirement for all diplomas*

AP United States Government and Politics - 1560 | 1 Semester | 1 Credit

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.

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

United States Government - 1540 | 1 Semester | 1 Credit

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

- *Recommended Grade:* 12
- *Credits:* 1 semester course, 1 credit per semester
- *Fulfills Government requirement for all diplomas*

notes

Economics - 1514 | 1 Semester | 1 Credit

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.

- *Recommended Grade:* 12
- *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, and Core 40 with Technical Honors diplomas*
- *Fulfills a Social Studies requirement for the General Diploma only*
- *Qualifies as a quantitative reasoning course*

DCM Advanced Economic/ECON 101 - 1574 | 1 Semester | 1 Credit

This dual credit economics course provides a survey of microeconomics, macroeconomics, international economics, comparative economic systems, historical development of economic thought, and their application to current economic problems.

- *Recommended Grade:* 12
- *Recommended Prerequisite:* *Students should be able to read a college level textbook and write grammatically correct sentences.*
- *Credits:* 1 semester course, 1 credit per semester
- *Fulfills the Economics requirement for the Core 40, Core 40 with Academic Honors, and Core 40 with Technical Honors diplomas*
- *Qualifies as a quantitative reasoning course*
- *This is a grade-weighted course.*

AP Psychology - 1558 | 2 Semesters | 2 Credits

AP Psychology is a course based on the content established and copyrighted by the College Board. The course is not intended to be used as a dual credit course. The AP Psychology course introduces students to the systematic and scientific study of human behavior and mental processes. While considering the psychologists and studies that have shaped the field, students explore and apply psychological theories, key concepts, and phenomena associated with such topics as the biological bases of behavior, sensation and perception, learning and cognition, motivation, developmental psychology, testing and individual differences, treatment of abnormal behavior, and social psychology. Throughout the course, students employ psychological research methods, including ethical considerations, as they use the scientific method, analyze bias, evaluate claims and evidence, and effectively communicate ideas. Topics include: History and Approaches; Research Methods; Biological Bases of Behavior; Sensation and Perception; States of Consciousness; Learning; Cognition; Motivation and Emotion; Developmental Psychology; Personality; Testing and Individual Differences; Abnormal Behavior; Treatment of Abnormal Behavior; and Social Psychology.

- *Recommended Grade:* 10, 11, 12
- *Required Prerequisites:* none
- *Recommended Prerequisites:* *Students should be able to read a college level textbook and write grammatically correct, complete sentences*
- *Credits:* 2 semester course, 1 credit per semester
- *Counts as an Elective for all diplomas*
- *This is a grade-weighted course.*

World Languages

2024-25 courses

Spanish I - 2120 | 2 Semesters | 2 Credits

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

- *Recommended Grade:* 9, 10, 11, 12
- *Recommended Prerequisites:* *English, C average*

Spanish II - 2122 | 2 Semesters | 2 Credits

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

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

Spanish III - 2124 | 2 Semesters | 2 Credits

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

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

AP Spanish Language and Culture - 2132 | 2 Semesters | 2 Credits

AP Spanish Language and Culture is a course established and copyrighted by the College Board and follows the College Board course guidelines for AP Spanish Language and Culture. The course prepares students to be successful on the AP Spanish Language and Culture exam. The course is not intended to be used as a dual credit course. The AP Spanish Language and Culture course emphasizes communication (understanding and being understood by others) by applying interpersonal, interpretive, and presentational skills in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness. The AP Spanish Language and Culture course strives not to overemphasize grammatical accuracy at the expense of communication. To best facilitate the study of language and culture, the course is taught almost exclusively in Spanish. The AP Spanish Language and Culture course engages students in an exploration of culture in both contemporary and historical contexts. The course develops students' awareness and appreciation of cultural products (e.g., tools, books, music, laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions).

- *Recommended Grade:* 11, 12
- *Required prerequisites:* *Honors Spanish III with a B average or teacher recommendation*
- *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*
- *This is a grade-weighted course.*

notes

Health & P.E. 2024-25 courses

Physical Education I-II - 3542, 3544 | 2 Semesters | 2 Credits
Physical Education I and II focuses on instructional strategies through a planned, sequential, and comprehensive physical education curriculum which provides students with opportunities to actively participate in at least four of the following: team sports; dual sport activities; individual physical activities; outdoor pursuits; self-defense and martial arts; aquatics; gymnastics; and dance, all of which are within the framework of the skills, knowledge and confidence needed by the student for a lifetime of healthful physical activity and fitness. Ongoing assessment includes both written and performance-based skill evaluation. Individual assessments may be modified for individuals with disabilities, in addition to those with IEPs and 504 plans (e.g., chronic illnesses, temporary injuries, obesity, etc.). See 511 IAC 7-27-9, 7- 27-11.

- *Recommended Grade:* 9
- *Credits:* 2 semester course, 1 credit per semester
- *Fulfills the Physical Education requirement for all diplomas*

Health and Wellness Education - 3506 | 1 Semester | 1 Credit
Health and Wellness, a course based on Indiana's Academic Standards for Health and Wellness and provides the basis to help students adopt and maintain healthy behaviors. Health education should contribute directly to a student's ability to successfully practice behaviors that protect and promote health and avoid or reduce health risks. Through a variety of instructional strategies, students practice the development of functional health information (essential concepts); determine personal values that support health behaviors; develop group norms that value a healthy lifestyle; develop the essential skills necessary to adopt, practice, and maintain health-enhancing behaviors. This course includes the application of priority areas in a planned, sequential, comprehensive health education curriculum. Priority areas include: promoting personal health and wellness, physical activity, and healthy eating; promoting safety and preventing unintentional injury and violence; promoting mental and emotional health, a tobacco- free lifestyle and an alcohol- and other drug-free lifestyle; and promoting human development and family health. This course provides students with the knowledge and skills of health and wellness core concepts, analyzing influences, accessing information, interpersonal communication, decision-making and goal-setting skills, health-enhancing behaviors, and health and wellness advocacy skills.

- *Recommended Grade:* 10
- *Credits:* 1 semester course, 1 credit per semester, 1 credit maximum
- *Fulfills the Health and Wellness requirement for all diploma types*

Elective Physical Education - 3560 | 1-2 Semesters | 1-2 Credits
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.

- *Recommended Grade:* 10, 11, 12
- *Required Prerequisites:* Physical Education I and II
- *Credits:* 1 credit per semester, maximum of 8 credits

Elective Physical Education: Weight Training - 3560 | 1-2 Semesters | 1-2 Credits
This course is designed for students with limited exercise and workout experience and various fitness levels. Students will learn proper weight training technique and fundamentals and apply them in a full body workout three days per week. Students will also work on cardiovascular fitness through a progressive running program and aerobic exercise as well as train to improve their speed, agility, and explosive power. The class is designed for students who want to improve their general strength, fitness and body image. Students will be challenged but allowed to progress at a pace and intensity level appropriate to their conditioning level.

- *Credits:* 1 credit per semester, maximum of 8 credits
- *Required Prerequisites:* Physical Education I and II
- *Counts as an Elective requirement for all diplomas*

Elective Physical Education: APC for Athletes - 3560 | 1-2 Semesters | 1-2 Credits
This course is designed for Mississinewa High school athletes involved in IHSAA sponsored sports. Instruction will focus on the development of strength, explosive power, speed, and agility. This course is for the motivated student-athlete who is serious about improving his/her strength, explosive power, speed, and agility through a strenuous training program involving weight training, plyometrics, and speed development drills.

- *Credits:* 1 credit per semester, maximum of 8 credits
- *Required Prerequisites:* Physical Education I and II
- *Counts as an Elective requirement for all diplomas*

Elective Physical Education: Officiating | 1-2 Semesters | 1-2 Credits
Web-based instructional modules, combined with interactives and activities to understand the mechanics and philosophy of officiating, provide learners with engaging classroom activities. Comprehension quizzes at the end of each module ensures learners are building a solid foundation of understanding before they ever officiate their first contest. Access to the patented point-of-view video scenarios allows learners to make the call and get instant feedback from their movements. Students then put what they learn into action by participating in practice/ scrimmage settings to hone mechanics and get a true feel for the game.

- *Recommended Grade:* 11, 12
- *Credits:* 1 credit, 1 semester
- *Counts as an Elective requirement for all diplomas*

notes

Visual Arts 2024-25 courses

Introduction to Two-Dimensional Art - 4000 | 1 Semester | 1 Credit
Introduction to Two-Dimensional Art is a course based on the Indiana Academic Standards for Visual Art. Students taking this course engage in sequential learning experiences that encompass art history, art criticism, aesthetics, production, and integrated studies and lead to the creation of portfolio quality works. Students explore historical and cultural background and connections; analyze, interpret, theorize, and make informed judgments about artwork and the nature of art; create two-dimensional works of art, reflect upon the outcomes, and revise their work; relate art to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills. They identify ways to utilize and support art museums, galleries, studios, and community resources.

- *Recommended Grade:* 9, 10, 11, 12
- *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*

Introduction to Three-Dimensional Art - 4002 | 1 Semester | 1 Credit
Introduction to Three-Dimensional Art is a course based on the Indiana Academic Standards for Visual Art. Students taking this course engage in sequential learning experiences that encompass art history, art criticism, aesthetics, production, and integrated studies and lead to the creation of portfolio quality works. Students explore historical and cultural background and connections; analyze, interpret, theorize, and make informed judgments about artwork and the nature of art; create three-dimensional works of art, reflect upon the outcomes, and revise their work; relate art to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills. They identify ways to utilize and support art museums, galleries, studios, and community resources.

- *Recommended Grade:* 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*

Advanced Two-Dimensional Art - 4004 | 1 Semester | 1 Credit
Advanced Two-Dimensional Art is a course based on the Indiana Academic Standards for Visual Art. Students in this course builds on the sequential learning experiences of Introduction to Two-Dimensional Art that encompass art history, art criticism, aesthetics, and production and lead to the creation of portfolio quality works. Students explore historical and cultural background and connections; analyze, interpret, theorize, and make informed judgments about artwork and the nature of art; create two-dimensional works of art, reflect upon the outcomes, and revise their work; relate art to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills. They identify ways to utilize and support art museums, galleries, studios, and community resources.

- *Recommended Grade:* 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*

notes

Advanced Three-Dimensional Art - 4006 | 1 Semester | 1 Credit
Advanced Three-Dimensional Art is a course based on the Indiana Academic Standards for Visual Art. Students in this course build on the sequential learning experiences of Introduction to Three-Dimensional Art that encompass art history, art criticism, aesthetics, and production and lead to the creation of portfolio quality works. Students explore historical and cultural background and connections; analyze, interpret, theorize, and make informed judgments about artwork and the nature of art; create three-dimensional works of art, reflect upon the outcomes, and revise their work; relate art to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills. They identify ways to utilize and support art museums, galleries, studios, and community resources.

- *Recommended Grade:* 10, 11, 12
- *Required Prerequisites:* none
- *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*

Visual Communication - 4086 | 1 Semester | 1 Credit
Visual Communication is a course based on the Indiana Academic Standards for Visual Art. Students in visual communication engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production and lead to the creation of portfolio quality works. They create print media utilizing graphic design, typography, illustration, and image creation with digital tools and computer technology. Students 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
- *Required Prerequisites:* none
- *Recommended Prerequisite:* Introduction to Two-Dimensional Art (L)
- *Counts as a Directed Elective or Elective for all diplomas*
- *Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma*
- *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.
- *Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma*
- *Laboratory course*

Drawing - 4060 | 1 Semester | 1 Credit
Drawing is a course based on the Indiana Academic Standards for Visual Art. Students in drawing engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production and lead to the creation of portfolio quality works. Students create drawings utilizing processes such as sketching, rendering, contour, gesture, and perspective drawing and use a variety of media such as pencil, chalk, pastels, charcoal, and pen and ink. They reflect upon and refine their work; explore cultural and historical connections; analyze, interpret, theorize, and make informed judgments about artwork and the nature of art; relate art to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills. Students utilize the resources of art museums, galleries, and studios, and identify art-related careers.

- *Recommended Grade:* 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*

Visual Arts 2024-25 courses

Painting - 4064 | 1 Semester | 1 Credit

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 acrylic as well as techniques such as stippling, gouache, wash, and impasto. They reflect upon and refine their work; explore cultural and historical connections; analyze, interpret, theorize, and make informed judgments about artwork and the nature of art; relate art to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills. Students utilize the resources of art museums, galleries, and studios, and identify art-related careers.

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

Fiber Arts - 4046 | 1 Semester | 1 Credit

Fiber Arts is a course based on the Indiana Academic Standards for Visual Art. Students in fiber arts 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 fiber art works utilizing processes such as loom and off-loom construction, dyeing, coiling, and stitchery. 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
- *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*

Jewelry - 4042 | 1 Semester | 1 Credit

Jewelry is a course based on the Indiana Academic Standards for Visual Art. Students in Jewelry engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production and lead to the creation of portfolio quality works. Students create works of jewelry design and fabrication techniques including, sawing, piercing, filing, and soldering. 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
- *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*

Photography - 4062 | 1 Semester | 1 Credit

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
- *Recommended Prerequisites:* 2-D, 3-D
- *Credits:* 1 semester, 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*

AP Drawing - 4048 | 2 Semesters | 2 Credits

AP Drawing is a course established and copyrighted by the College Board. The course is not intended to be used as a dual credit course. The AP Studio Art Program consists of three portfolio exams—2-D Design, 3-D Design, and Drawing—corresponding to the college foundation courses. Portfolios allow flexibility of coursework while guiding students to produce college-level quality, artistic investigation, and breadth of work. The Drawing portfolio addresses issues such as line quality, light and shade, rendering of form, composition, surface manipulation, the illusion of depth, and mark-making. Students’ portfolios demonstrate skills and ideas developed, refined, and applied throughout the course to produce visual compositions. Students may choose to submit any or all of the portfolios. Portfolios are evaluated based on standardized scoring descriptors aligned with skills and understanding developed in college foundation courses. The portfolio will have two sections: Sustained Investigation and Selected works.

- *Recommended Grade:* 11, 12
- *Recommended Prerequisites:* Successful completion of Drawing with a C or better
- *Credits:* 2 semester course, 1 credit per semester, 2 semesters required
- *Counts as a Directed Elective or Elective for all diplomas*
- *Fulfills the Fine Arts requirement for the Core 40 with Academic Honors Diploma*
- *This is a grade-weighted course.*

AP 2-D Art and Design - 4050 | 2 Semesters | 2 Credits

AP 2-D Design is a course established and copyrighted by the College Board. The course is not intended to be used as a dual credit course. The AP Program offers three studio art courses and portfolios: 2-Dimensional Design, 3-Dimensional Design, and Drawing. The AP Art portfolios are designed for students who are seriously interested in the practical experience of art. The portfolios correspond to most college foundation courses. Students submit portfolios for evaluation at the end of the school year. Students may choose to submit any or all of the Drawing, 2-Dimensional Design, or 3-Dimensional design portfolios. AP Art students create a portfolio of work to demonstrate the artistic skills and ideas they have developed, refined, and applied over the course of the year to produce visual compositions. The portfolio will have two sections: Sustained Investigation and Selected works.

- *Recommended Grade:* 11, 12
- *Recommended Prerequisites:* Successful completion of Advanced 2-D with a C or better
- *Credits:* 2 semester course, 1 credit per semester, 2 semesters required
- *Counts as a Directed Elective or Elective for all diplomas*
- *Fulfills the Fine Arts requirement for the Core 40 with Academic Honors Diploma*
- *This is a grade-weighted course.*

Visual Arts 2024-25 courses

AP 3-D Art and Design - 4052 | 2 Semesters | 2 Credits

AP 3-D Design is a course established and copyrighted by the College Board. The course is not intended to be used as a dual credit course. The AP Art Program consists of three portfolio exams—2-D Design, 3-D Design, and Drawing—corresponding to the college foundation courses. Portfolios allow flexibility of coursework while guiding students to produce college-level quality, artistic investigation, and breadth of work. The 3-D Design portfolio involves decision making about how to use the elements and principles of art as they relate to the integration of depth, space, volume, and surface, either actual or virtual. Students’ portfolios demonstrate skills and ideas developed, refined, and applied throughout the course to produce visual compositions. Students may choose to submit any or all of the portfolios. Portfolios are evaluated based on standardized scoring descriptors aligned with skills and understanding developed in college foundation courses. The portfolio will have two sections: Sustained Investigation and Selected works.

- *Recommended Grade:* 11, 12
- *Rec. Prerequisites:* Successful completion of Advanced 3-D with a C or better
- *Credits:* 2 semester course, 1 credit per semester, 2 semesters required
- *Counts as a Directed Elective or Elective for all diplomas*
- *Fulfills the Fine Arts requirement for the Core 40 with Academic Honors Diploma*
- *This is a grade-weighted course.*

Performing Arts 2024-25 courses

Crimson Choir - 4186 | 2 Semesters | 2 Credits

Crimson Choir is a women's choir that is open to all grades with previous choral experience. Students will sing 2, 3, and 4-part harmony according to their capabilities, perform a variety of music and work toward good singing and music reading skills. Performances outside of class are required. Choral festivals and other travel experiences will be made available to further the experience. The students will purchase outfits. Dresses range from \$50.00-\$75.00.

- *Recommended Grade:* 9, 10, 11, 12
- *Required Prerequisites:* audition by the director
- *Credits:* 2 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*

Ole Miss Singers - 4188 | 2 Semesters | 2 Credits

Ole Miss Singers is open to men and women. Students will sing in a minimum of 4-part harmony, perform a variety of musical styles, and work toward good singing and music reading skills. They will perform a more advanced type of choral literature. Each member is expected to purchase his or her outfit for performances throughout the year. A fee of \$75.00-\$90.00 will be charged to women for their dresses, while men will be charged up to \$120.00 for their tuxedo. Students will have many outside performing opportunities both in and out of our community.

- *Recommended Grade:* 9, 10, 11, 12
- *Required Prerequisites:* audition by the director
- *Credits:* 2 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*

Piano and Electronic Keyboard - 4204 | 1 Semester | 1 Credit

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

- *Recommended Grade:* 9, 10, 11, 12
- *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*

DCM Music Appreciation - HUMA 118 - 4260 |

2 Semesters | 2 Credits

Advanced Fine Arts, College Credit is a title covering any advanced course in fine arts (music, visual arts, theater arts, or dance) offered for credit by an accredited post-secondary institution through an adjunct agreement with a secondary school or any other post-secondary fine arts course offered for dual credit.

- *Recommended Grade:* 10, 11, 12
- *Required Prerequisites:* none
- *Recommended Prerequisites:* none
- *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 requirement of 1 or 2 Fine Arts credits for Core 40 with Academic Honors Diploma*
- *Fine Arts dual credit courses are not included on the list of approved course titles for dual credits that apply toward the Honors diplomas.*

Concert Band - 4170 | 2 Semesters | 2 Credits

Advanced Concert Band will include the study of musical styles, instruments, theory, and history. There will be a minimum of three formal concerts and public performances. Members will also be responsible for all Marching Band and Pep Band rehearsals and performances. Solo and Ensemble contest will also be encouraged. A fee of no more than \$75.00 will be collected for the uniform.

- *Recommended Grade:* 9, 10, 11, 12
- *Recommended Prerequisites:* 7th/8th grade band with a C average or some form of prior instrumental training approved by the band director
- *Credits:* 2 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*

Theatre Arts - 4242 | 2 Semesters | 2 Credits

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

- *Recommended Grade:* 9, 10, 11, 12
- *Credits:* 2 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*

Advanced Theatre Arts - 4240 | 2 Semesters | 2 Credits

Advanced Theatre Arts is based on the Indiana Academic Standards for Theatre. Students enrolled in Advanced Theatre Arts read and analyze plays and apply criteria to make informed judgments. They draw on events and experiences to create scripted monologues and scenes, create scenic designs for existing plays, and build characters through observation, improvisation and script analysis. These activities should incorporate elements of theatre history, culture, analysis, response, creative process, and integrated studies. Additionally, students explore careers in theatre arts and begin to develop a portfolio of their work. They also attend and critique theatre productions and identify ways to support the theatre in their community.

- *Recommended Grade:* 10, 11, 12
- *Required Prerequisites:* Theatre Arts
- *Credits:* 2 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*



1 in 4

Mississinewa students are Early College High School graduates, earning certifications, degrees and credits preparing them for steps after high school.

STUDENT
achievement

Mississinewa High School: A tradition of excellence.