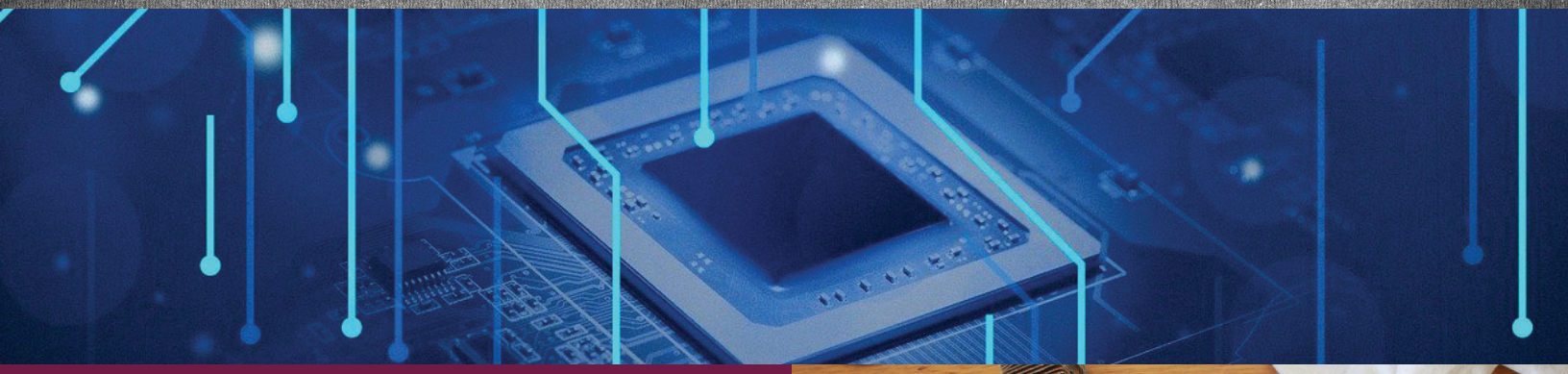
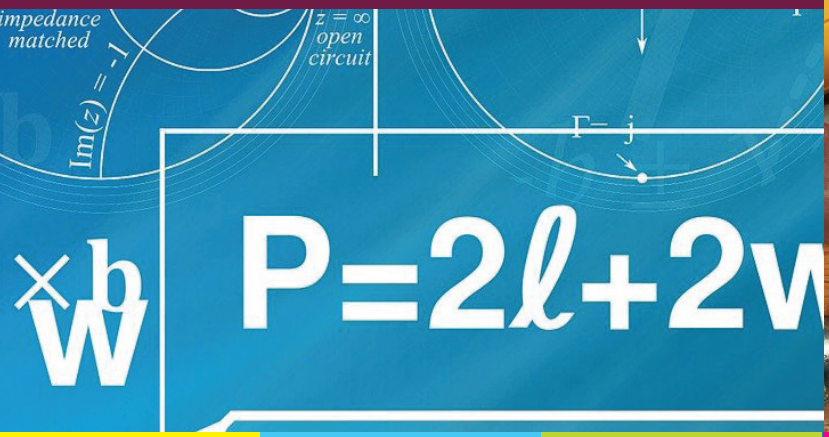
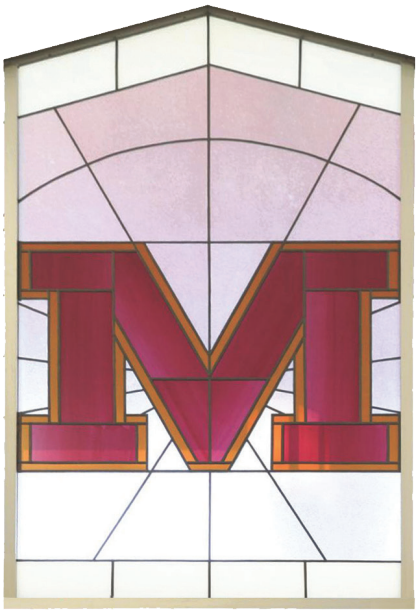
Course Offering Guide

2024–2025



Mishawaka High School
1202 Lincolnway East, Mishawaka, IN 46544
MishawakaSchools.com/MHS





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For full course descriptions visit:

MISHAWAKA
HIGH SCHOOL
an Early College High School

January 2024

Dear Students, Parents, and Guardians,

As we embark on a new academic year at Mishawaka High School, I extend a warm welcome to each and every one of you. The Course Offering Guide for the 2024–2025 school year serves as your roadmap to academic and career success. In these pages, you will find detailed information about the courses we offer, including core subjects, pathway courses, and dual-credit and Advanced Placement options.

When preparing for your future, it is important to consider academic rigor and ways to maximize your learning experiences so you will have maximum work and educational opportunities later in your life. MHS offers dual-credit classes that, when taken in a specific combination, allow students to earn the Indiana College Core (freshman-year of college) and an associate's degree. This certificate and degree transfer to Indiana public colleges, shortening the time and money it will take students to earn a 4-year degree, but they also stand alone and provide students with significant earnings boosts in many sectors. This is especially true when students engage in CTE pathways that offer dual credits, as these classes provide a high level of training and help students earn degrees.

Combining traditional core classes and exciting career-focused programs and initiatives will allow students to enhance their educational experiences. This Course Offering Guide contains 4-year planners that match diploma types, and also lays out the various Career and Technical Education pathways MHS offers. Use this guide to help with proper sequencing of courses and to guide the dual credits available to students.

We encourage you to explore the Course Offering Guide thoroughly, discuss your academic goals with your teachers, and seek guidance from our counseling team. The choices you make in the coming weeks will lay the foundation for your high school academic plan and success.

Wishing you a wonderful and successful academic year ahead,

Chad Brugh

Principal, Mishawaka High School

574.254.7300
MishawakaSchools.com/MHS
1202 Lincoln Way East • Mishawaka, IN 46544-2798

Counseling Program

The MHS counselors are available to help students and their parents with personal, behavioral, educational, and vocational concerns. MHS has a full-time social worker on staff.

Educational Planning

We strongly recommend that students take advantage of Mishawaka High School's comprehensive curricula. Course descriptions are available at MishawakaSchools.com/MHS

Definitions

Credit- Is earned by the satisfactory completion of a semester's work. Usually one credit is given for each eighty-five minute block course.
Prerequisite- A prerequisite is a course which a student must pass before another course may be taken.
Semester- A school year is divided into two eighteen week semesters at Mishawaka High School.
Grading Period- A grading period is six weeks, three per semester.

Entrance Requirements for Colleges & Technical Schools

Each institution of higher learning (college, university, or technical school) has specific requirements for admission. Courses, GPA, test scores, and other admission requirements are available from each institution. Students can find this information on the institution's web page. Students should research this information as they plan their high school course of study.

College Scholarships

A number of Mishawaka High School seniors seek college scholarships each year. Students and parents annually are given information concerning the College Entrance Examination Board and the National Merit Scholarship competition (PSAT/NMSQT). All sophomores and juniors participate in the PSAT/NMSQT at MHS. Many other scholarship opportunities are offered by colleges, business and industrial firms, as well as civic, fraternal, and educational groups. Some awards require an examination; others require a written application or an interview. Students should consult their counselors to determine scholarship eligibility.

Advanced Placement, Advance College Project, & Dual Credit

Mishawaka High School offers a wide variety of AP and dual credit courses. Both AP and dual credit courses count toward high school credit. Additionally, dual credit courses may count towards college credit. Students can develop a four year plan that leads to a one year certificate or an Associate Degree in General Studies from Ivy Tech with the right combination of ACP and other dual credit courses. We encourage students to use the mycollegecore.org planner.

Advanced Placement AP - Several College Board Advanced Placement courses with AP exams are available. To take an AP exam, the student must be enrolled in the appropriate course at MHS. The State of Indiana or School City of Mishawaka covers the fees for some AP exams. Exam fees that are not covered become the responsibility of the student and parent. Details will be shared in the individual AP courses. Registration details are announced within the course and the national schedule of AP exams is strictly adhered to. Additional information about AP course work is available at www.collegeboard.org/ap. Each college determines if and how they will award credit for superior AP exam scores. AP exam scores and how they are linked to a specific university can be located at collegeboard.org/apcreditpolicy.

Advance College Project ACP - MHS offers numerous IU ACP classes for dual credit. Enrollment in IU ACP courses requires a minimum 2.7 GPA. Students must complete an online application with Indiana University for approval. Once approved by IU, ***the student will register for college credit online using the IU directives in his or her IU account.*** IU credit is free for 2023–2024. IU will determine if there is a fee going forward. Transfer of credit to another college or university is the responsibility of the student.

Dual Credit- Students can earn additional dual credit through Ivy Tech Community College or Vincennes University for many courses at MHS. These courses are free. Instructors will provide details at the beginning of the school year. Dual credit may also be earned through most programs at the Elkhart Area Career Center. Transfer of credit to another college or university is the responsibility of the student.

Note: Many dual credit classes have prerequisites, some of which require students to achieve specific scores on the PSAT or equivalent tests.

Indiana Department of Education Academic Standards

The course descriptions are based upon academic standards developed by the Indiana Department of Education. The most current edition of those standards can be found under Indiana Academic Standards at www.doe.state.in.us

Book Fees

As of July 2023, book fees for Indiana's school children were absorbed by the state. Some non-curricular fees may still be charged in certain circumstances as allowed by law. Replacement fees for lost textbooks and computers are the responsibility of the family and will be charged by the district.

National Honor Society

Membership in the organization signifies that the student has attained a high level of scholarship and has provided outstanding leadership and service to the school. To be eligible, a student must have been enrolled at Mishawaka High School for at least one semester. Eligibility is based on a 3.2 minimum scholastic average. Qualified students are then selected for NHS membership by a majority vote of the faculty council on the basis of scholarship, leadership, service, and character. Only juniors and seniors may be selected for membership in the National Honor Society. Membership is an honor and responsibility. This responsibility includes participation in both individual and group service projects.

NCAA Eligibility

The NCAA Eligibility Center handles all inquiries regarding an individual's initial eligibility status as a collegiate athlete. The Clearinghouse maintains and processes all of the initial-eligibility certifications. Students intending to participate in Division I sports should take the SAT or ACT in the fall semester of their junior year. All student athletes should register with the NCAA Clearinghouse in the Fall of their junior year.

For more information about the NCAA or to register with the Clearinghouse, log on to the following web site—www.eligibilitycenter.org.

Athletic Eligibility

Students must be passing five (5) full credits in both the preceding and the **current grading period** to be eligible for interscholastic athletics. The administration recommends that students take seven (7) full credit classes each semester. For more information, contact the Athletic Office at Mishawaka High School.

Grading And Evaluation

Grading Scale		GPA	Points
Percent	Grade	Regular	Honors
100 – 98%	A+	4.33	5.42
97–94%	A	4.00	5.00
93–90%	A-	3.67	4.58
89–88%	B+	3.33	4.17
87–84%	B	3.00	3.75
83–80%	B-	2.67	3.33
79–78%	C+	2.33	2.92
77–74%	C	2.00	2.50
73–70%	C-	1.67	2.08
69–68%	D+	1.33	1.67
67–64%	D	1.00	1.25
63–60%	D-	0.67	0.83
59–0%	F	0.00	0.00

An Explanation Of Comparative Achievement Symbols

A	Excellent achievement
B	Very good achievement
C	Satisfactory achievement
D	Minimum proficiency
F	Failure: The pupil has not achieved a passings mark. The student should undertake further work in order to become ready for subsequent subjects, courses, and grade levels.
I	Incomplete: The pupil has been granted additional time to complete required work before a letter grade is determined.
W	Withdrawn: Printed on the permanent transfer and not used in GPA computation.
WF	Withdrawn-Fail: Printed on the permanent transfer and is used in GPA computation.
N	No grade

Progress Reports & Report Cards

Progress reports are issued soon after the close of each six-week grading period. The report shows grades throughout the semester. Final report cards are issued electronically at the end of each semester grading period and are based on the semester average. Refer to the school calendar for specific dates for the end of each grading period or semester.

Semester Average

The semester grade is the result of the percent earned for the total semester's work, including a final exam, not an average of the progress report letter grades. Questions about grading procedures and standards should **be referred to the teacher.**

Auditing a Course Previously Passed

The better grade (no higher than a B) will be placed on the permanent record and count toward class rank/GPA. Only one of these earned credits will appear on the permanent record and count toward graduation.

Grade Point Average (GPA)

Grades: GPA is a critical part of your academic record, along with the rigor of the courses that you select. The GPA for each grading period is listed on the report card. The overall GPA is listed on a student's transcript and can also be monitored through the Skyward online information program for MHS parents.

GPA determines class rank. Colleges and scholarship programs look closely at a candidate's class rank in their review process.

Visit us on the Web

https://mishawakacounselin.wixsite.com/website

21st Century Scholars

7th and 8th Grade Parents:
Your Children May be Eligible for a College Scholarship

Indiana's 21st Century Scholars program offers income-eligible Hoosier students **up to four years of paid tuition** at an eligible Indiana college or university after they graduate from high school, dependent upon financial need. In middle and high school, Scholars are connected to programs and resources to help them stay on track for college and career success. Once in college, Scholars receive support to complete their college degrees and connect to career opportunities. 7th and 8th grade Indiana students whose families meet income eligibility guidelines can apply to become a 21st Century Scholar. **Applications must be received by June 30 of the student's 8th grade year.**

21st Century Scholars Program Income Guidelines

2023–2024

Household Size	Maximum Annual Income
2	$36,482
3	$45,991
4	$55,500
5	$65,009
6	$74,518
7	$84,027
8	$93,536

Apply online at Scholars.IN.gov
or text **college** to 317-597-8068

Applications must be received by June 30 of the student's 8th grade year.

If you have questions, please contact your child's counselor.

INDIANA CORE 40

Course and Credit Requirements	
English/Language Arts	**8 credits**
	Including a balance of literature, composition, and speech.
Mathematics	**6 credits** (in grades 9 – 12)
	2 credits: Algebra I
	2 credits: Geometry
	2 credits: Algebra II
	Or complete Integrated Math I, II, and III for 6 credits. Students must take a math or quantitative reasoning course each year in high school
Science	**6 credits**
	2 credits: Biology I
	2 credits: Chemistry I or Physics I or Integrated Chemistry-Physics
	2 credits: any Core 40 science course
Social Studies	**6 credits**
	2 credits: U.S. History
	1 credit: U.S. Government
	1 credit: Economics
	2 credits: World History/Civilization or Geography/History of the World
Directed Electives	**5 credits**
	World Languages
	Fine Arts
	Career and Technical Education
Physical Education	**2 credits**
Health and Wellness	**1 credit**
Electives*	**6 credits** (College and Career Pathway courses recommended)
40 Total State Credits Required	

Schools may have additional local graduation requirements that apply to all students.

*Specifies the number of electives required by the state. High school schedules provide time for many more electives during the high school years. All students are strongly encouraged to complete a College and Career Pathway (selecting electives in a deliberate manner) to take full advantage of career and college exploration and preparation opportunities.

**SAT scores updated September 2017

*** WorkKeys assessment titles updated 2018

INDIANA CORE 40 with Academic Honors (minimum 47 credits)

For the **Core 40 with Academic Honors diploma**, students must:

- Complete all requirements for Core 40.
- Earn 2 additional Core 40 math credits.
- Earn 6–8 Core 40 world language credits. (6 credits in one language or 4 credits each in two languages).
- Earn 2 Core 40 fine arts credits.
- Earn a grade of "C" or better in courses that will count toward the diploma.
- Have a grade point average of "B" or better.
- Complete **one** of the following:
  - A) Earn 4 credits in 2 or more AP courses and take corresponding AP exams
  - B) Earn 6 verifiable transcripted college credits in dual credit courses from the approved course list
  - C) Earn two of the following:
    1. A minimum of 3 verifiable transcripted college credits from the approved course list.
    2. 2 credits in AP courses and corresponding AP exams.
    3. 2 credits in IB standard level courses and corresponding IB exams.
  - D) Earn a combined score of 1250 or higher on the SAT and a minimum of 560 on math and 590 on the evidence based reading and writing section.**
  - E) Earn an ACT composite score of 26 or higher and complete written section.
  - F) Earn 4 credits in IB courses and take corresponding IB exams.

INDIANA CORE 40 with Technical Honors (minimum 47 credits)

For the **Core 40 with Technical Honors diploma**, students must:

- Complete all requirements for Core 40
- Earn 6 credits in the college and career preparation courses in a state-approved College & Career Pathway and one of the following:
  1. Pathway designated industry-based certification or credential, or
  2. Pathway dual credits ***from the lists of approved courses*** resulting in 6 transcripted college credits
- Earn a grade of "C" or better in courses that will count toward the diploma.
- Have a grade point average of "B" or better.
- Complete one of the following,
  - A) Any one of the options (A–F) of the Core 40 with Academic Honors
  - B) Earn the following scores or higher on WorkKeys; Workplace Documents, Level 6; Applied Math, Level 6; and Graphic Literacy, Level 5 ***.
  - C) Earn the following minimum score(s) on Accuplacer; Writing 80, Reading 90, Math 75.
  - D) Earn the following minimum scores(s) on Compass; Algebra 66. Writing 70, Reading 80.

Graduation Requirements

These recommendations seek to ensure that every Hoosier 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. Students in the graduating class of 2024 must satisfy all three of the following Graduation Pathway Requirements by completing one of the associated Pathway Options:

1) **High School Diploma**
   Meet the statutorily defined diploma credit and curricular requirements.

2) **Learn and Demonstrate Employability Skills**
   (Students must complete ***at least one*** of the following.)
   Learn employability skills standards through locally developed programs. Employability skills are demonstrated by **one** the following:
   - **Project-Based Learning Experience; OR**
   - **Service-Based Learning Experience; OR**
   - **Work-Based Learning Experience.**

3) **Postsecondary-Ready Competencies**
   (Students must complete **at least one** of the following.)
   - **Honors Diploma**: Fulfill all requirements of either the Academic or Technical Honors diploma; OR
   - **ACT**: College-ready benchmarks; OR
   - **SAT**: College-ready benchmarks; OR
   - **ASVAB**: Earn at least a minimum 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 or higher in at least two non-duplicative advanced courses (courses beyond an intruductory course) within a particular program or program of study; OR
   - **AP/IB/Dual Credit/Cambridge International courses or CLEP Exams**: Must earn a C average or higher in at least three courses; OR
   - **Locally created pathway** that meets the framework from and earns the approval of the State Board of Education.

Career Technical Education Pathways

Things to consider about Career Pathways:

- The state and MHS strongly recommend that all students complete a pathway.
- Pathways include the following four courses sequence: Principles, Concentrator A, Concentrator B, and a Capstone.
- The combination of the first three (Principles, Concentrator A and B) is an excellent way to meet graduation requirement #3 (Postsecondary-Ready Competencies).
- Capstone classes meet graduation requirement #2 (Learn and Demonstrate Employability Skills).
- Students focusing on classes in the performing arts should complete the Entrepreneurship pathway to be better prepared to develop career opportunities and manage their careers.
- Students focusing on the visual arts should supplement their art classes with digital design classes.

Academic Honors Diploma (AHD)

Four Year Plan Example

Things to consider about an AHD:

- It is designed for students that are planning to attend a four year college, i.e., most students.
- Honors course are not required, but are recommended.
- AP and dual credit courses can be essential in meeting AHD requirements.
- Four years of math are required and only one year of high school math taken at the middle school will count.
- There is a world language requirement.
- A "C" or better is required for all classes and an overall GPA of 3.0 or better is also required.
- Earning six credits in a college career pathway is recommended.

	Freshmen	Sophomore	Junior	Senior
English	ENGLISH 9 H	ENGLISH 10 H	ENGLISH 11 H	ENGLISH 12/W131 SPEECH/S121
	English classes will be selected based on teacher recommendation and test scores.			
Mathematics	ALGEBRA I	GEOMETRY H	ALGEBRA II H	PRECALC H/MATH136 TRIG H/MATH137
	Math classes will be selected based on what is completed in middle school. Many students will start with higher level math classes.			
Science	BIOLOGY I H	CHEMISTRY I H or PHYSICS or ICP	3rd Science	4th Science or Elective
	Bio I or Bio I H will be selected based on teacher recommendation. At least one class in chemistry or physics is required.			
Social Studies	PE I/II	AP W HIST (Mod)	US HIS/H105 US HIS/H106	GOV/Y103 ECON 101
	PE I/II can be taken in the summer to make room for more electives or sports performance classes for student athletes.			
Health+	COL & CAREERS/ CAREER EXPLORATION IvyT 106	HUMAN DEV & WELLNESS/HEALTH		
	The state requires students receive education in Personal Finance while in high school.			
World Lang.	WORLD LANGUAGE I	WORLD LANGUAGE II	WORLD LANGUAGE III	WORLD LANGUAGE IV
	Multi-year sequences are available in French, German, and Spanish to include dual credit classes in years three and four.			
Fine Art & Electives	FINE ART Any Year			
	An AHD requires completion of two credits in fine arts. See page 10 eligible Fine Arts classes.			
Pathway & Electives	AHD students should complete a career pathway. See pages 11-16 for options.			

FRESHMEN CORE

HS Course Name/College #	Semesters	Cr per Sem	Credit Type	Dual Credit Prereq			College Credit	Eligible Grades			
				Read	Write	Math		9	10	11	12
ENGLISH 9 1-2	2	1	English					9			
ENGLISH 9H 1-2	2	H1	English					9			
ALGEBRA I 1-2	2	1	Math					9			
GEOMETRY 1-2	2	1	Math					9	10	11	12
ALGEBRA II 1-2	2	H1	Math					9	10	11	12
BIOOLOGY I (L) 1-2	2	1	Bio I					9			
EARTH & SPACE SCIENCE 1-2	2	1	3RD SCI					9			
BIOLOGY I (L) H 1-2	2	1	BIO I					9	10	11	12
PHYSICAL EDUCATION (L) 1-2	2	1	PE					9	10	11	12

Academic Honors Diploma (AHD)

Develop Your Four Year Plan & Track Your Progress

How to complete this:

- Fill-in the classes you need and want into the grid below.
- Align it with the required/recommended classes to the left.
- More information about freshmen and sophomore core class options is listed at the bottom of the page.
- Fine Arts electives are on page 13.
- Pathway electives are on pages 14–23.
- Fill-in your grades at the end of each semester.

		Course	Grade	Course	Grade	Course	Grade	Course	Grade
English	Fall								
	Spring								
Mathematics	Fall								
	Spring								
Science	Fall								
	Spring								
Social Studies	Fall								
	Spring								
Health+	Fall								
	Spring								
World Lang.	Fall								
	Spring								
Fine Art & Electives	Fall								
	Spring								
Pathway & Electives	Fall								
	Spring								

SOPHOMORE CORE

HS Course Name/ College #	Semesters	Cr per Sem	Credit Type	Dual Credit Prereq			College Credit	Eligible Grades			
				Read	Write	Math		9	10	11	12
ENGLISH 10 3-4	2	1	English						10		
ENGLISH 10H 3-4	2	H1	English						10		
GEOGRAPHY & W HISTORY 1-2	2	1	WH						10	11	12
AP W HISTORY MOD/HISTORY 1-2	2	H1	WH	AP Score 3-5			IvyT 3		10	11	12
GEOMETRY 1-2	2	1	Math						10	11	12
ALGEBRA II 1-2	2	1	Math						10	11	12
BIOLOGY I (L) 1-2	2	1	Bio I						10	11	12
EARTH & SPACE SCI 1-2	2	1	3RD SCI						10	11	12
INT CHEMISTRY-PHIYSICS I	2	1	ICP						10	11	12
CHEM I (L) H 1-2	2	HI	ICP						10	11	12
CHEMISTRY I (L) 1-2	2	1	ICP						10	11	12
PHYSICS I (L) 1-2	2	1	ICP						10	11	12

Core 40 and/or Technical Honors Diploma (THD)

Four Year Plan Example

"Things to consider about a Core-40 or THD (THD specific items are in bold):

- Both diplomas are designed for students that are either planning to attend college or enter the workforce.
- Only three years of math are required, but a fourth year is recommended, if college bound.
- There is no world language requirement, but a year or two might be helpful, if college bound.
- Earning six high school credits in a career pathway may be essential in meeting graduation requirements #2 and #3 (see pages 5 and 6).
- Earn six college credits or an industry certification in a career pathway.
- A "C" or better is required for all classes and an overall GPA of 3.0 or better is also required."

	Freshmen	Sophomore	Junior	Senior
English	ENG 9	ENG 10	ENG 11	ENG 12
	English classes will be selected based on teacher recommendation and test scores.			
Mathematics	ALG I	GEOM	ALG II	PRECALC TRIG
	Math classes will be selected based on what is completed in middle school. Many students will start with higher level math classes.			
Science	BI O I (9)	CHEM I or PHYSICS or ICP	3rd Science	Science, elective or Pathway (half day)
	Bio I or Bio I H will be selected based on teacher recommendation. At least one class in chemistry or physics is required.			
Social Studies	PE I/II	GEOG & W HIS	US HIS	GOV ECON
	PE I/II can be taken in the summer to make room for more electives or sports performance classes for student athletes.			
Health+	COL & CAREERS/ CAREER EXPLORATION IvyT 106	HUMAN DEV & WELLNESS/HEALTH		
	The state requires students receive education in Personal Finance while in high school.			
World Lang. & Electives			CCR-MATH CCR-LIT	Elective or Pathway (half day)
	Any electives (world language, fine arts or pathways) CCR-Math and CCR-LIT may be required to prepare for the SAT in early March and ASVAB in May of your junior year.			
Fine Art & Electives				Elective or Pathway (half day)
	Any electives (fine arts or pathways)			
Pathway & Electives	Core-40 and THD students must complete a career pathway. See pages 14–23 for options.			

FRESHMEN CORE

HS Course Name/College #	Semesters	Cr per Sem	Credit Type	Dual Credit Prereq			College Credit	Eligible Grades			
				Read	Write	Math		9	10	11	12
ENGLISH 9 1-2	2	1	English					9			
ENGLISH 9H 1-2	2	H1	English					9			
ALGEBRA I 1-2	2	1	Math					9			
GEOMETRY 1-2	2	1	Math					9	10	11	12
ALGEBRA II 1-2	2	H1	Math					9	10	11	12
BIOLOGY I (L) 1-2	2	1	Bio I					9			
EARTH SCI & SPACE SCI 1-2	2	1	3rd Sci					9			
BIOLOGY I (L) H 1-2	2	H1	Bio I					9	10	11	12
PHYSICAL EDUCATION (L) 1-2	2	1	PE					9	10	11	12

Core 40 and/or Technical Honors Diploma (THD)

Develop Your Four Year Plan & Track Your Progress

How to complete this:

- Fill-in the classes you need and want into the grid below.
- Align it with the required/recommended classes to the left.
- More information about freshmen and sophomore core class options is listed at the bottom of the page.
- Fine Arts electives are on page 13.
- Pathway electives are on pages 14–23.
- Fill-in your grades at the end of each semester.

		Course	Grade	Course	Grade	Course	Grade	Course	Grade
English	Fall								
	Spring								
Mathematics	Fall								
	Spring								
Science	Fall								
	Spring								
Social Studies	Fall								
	Spring								
Health+	Fall								
	Spring								
World Lang.	Fall								
	Spring								
Fine Art & Electives	Fall								
	Spring								
Pathway & Electives	Fall								
	Spring								

SOPHOMORE CORE

HS Course Name/ College #	Semesters	Cr per Sem	Credit Type	Dual Credit Prereq			College Credit	Eligible Grades			
				Read	Write	Math		9	10	11	12
ENGLISH 10 3-4	2	1	English						10		
ENGLISH 10H 3-4	2	H1	English						10		
GEOGRAPHY & W HISTORY 1	2	1	WH						10	11	12
AP W HISTORY MODERN 1-2	2	H1	WH	AP Score 3-5			IvyT 3		10	11	12
GEOMETRY 1-2	2	1	Math						10	11	12
ALGEBRA II 1-2	2	1	Math						10	11	12
BIOLOGY I (L) 1-2	2	1	Bio I						10	11	12
EARTH & SPACE SCIENCE 1-2	2	1	3rd Sci						10	11	12
INT CHEMISTRY-PHYS 1	2	1	ICP						10	11	12
CHEMISTRY I (L) H 1-2	2	H1	ICP						10	11	12
CHEMISTRY I (L) 1-2	2	1	ICP						10	11	12
PHYSICS I (L) 1-2	2	1	ICP						10	11	12

Core 40 and/or Technical Honors Diploma (THD)

With Additional Math and/or English Support (Example)

Things to consider about an Core-40 or THD (THD specific items are in bold):

- Both diplomas are designed for students that are either planning to attend college or enter the workforce.
- Only three years of math are required, but a fourth year is recommended, if college bound.
- There is no world language requirement, but a year or two might be helpful, if college bound.
- Earning six high school credits in a career pathway may be essential in meeting graduation requirements #2 and #3 (see pages 5 and 6).
- **Earn six college credits or an industry certification in a career pathway.**
- **A "C" or better is required for all classes and an overall GPA of 3.0 or better is also required.**

	Freshmen	Sophomore	Junior	Senior
English	ENG 9	ENG 10	ENG 11	ENG 12
	English classes will be selected based on teacher recommendation and test scores.			
Mathematics	ALG I	GEOM	ALG 11	4th Math or Elective
	Math classes will be selected based on what is completed in middle school. Many students will start with higher level math classes.			
Science	EARTH SCI	BIO I	CHEM or PHYSICS or ICP	Science, elective or Pathway (half day)
	Bio I and at least one class in chemistry or physics or integrated chemistry and physics are required.			
Social Studies	PE I/II	GEOG & W HIS	US HIS	GOV ECON
	PE I/II can be taken in the summer to make room for more electives or sports performance classes for student athletes.			
Health+	COL & CAREERS/ CAREER EXPLORATION IvyT 106	HUMAN DEV & WELLNESS/HEALTH		
	The state requires students receive education in Personal Finance while in high school.			
World Lang. & Electives	MATH LAB A1	MATH LAB A2	CCR-MATH CCR-LIT	Elective or Pathway (half day)
	Any electives (world language, fine arts or pathways) CCR-Math and CCR-LIT may be required to prepare for the SAT in early March and ASVAB in May of your junior year.			
Fine Art & Electives	LAL 9	LAL 10		Elective or Pathway (half day)
	Any electives (fine arts or pathways)			
Pathway & Electives	Core-40 and THD students must complete a career pathway. See pages 11-16 for options.			Elective or Pathway (half day

FRESHMEN CORE

HS Course Name/College #	Semesters	Cr per Sem	Credit Type	Dual Credit Prereq			College Credit	Eligible Grades			
				Read	Write	Math		9	10	11	12
ENGLISH 9 1-2	2	1	English					9			
ALGEBRA I 1-2	2	1	Math					9			
BIOLOGY I (L) 1-2	2	1	Bio I					9			
EARTH & SPACE SCIENCE 1-2	2	1	3rd Sci					9			
PHYSICAL EDUCATION (L) I-II	2	1	PE					9	10	11	12
LAL 1-2	2	1	Elect					9			
MATH LAB AI 1-2	2	1	Elect					9			

Four-Year Plan
and Progress in the Plan

How to complete this:

- Fill-in the classes you need and want into the grid below.
- Align it with the required/recommended classes to the left.
- More information about freshmen and sophomore core class options is listed at the bottom of the page.
- Fine Arts electives are on page 13.
- Pathway electives are on pages 14– 23.
- Fill-in your grades at the end of each semester.

		Course	Grade	Course	Grade	Course	Grade	Course	Grade
English	Fall								
	Spring								
Mathematics	Fall								
	Spring								
Science	Fall								
	Spring								
Social Studies	Fall								
	Spring								
Health+	Fall								
	Spring								
World Lang.	Fall								
	Spring								
Fine Art & Electives	Fall								
	Spring								
Pathway & Electives	Fall								
	Spring								

SOPHOMORE CORE

HS Course Name/ College #	Semesters	Cr per Sem	Credit Type	Dual Credit Prereq			College Credit	Eligible Grades			
				Read	Write	Math		9	10	11	12
ENGLISH 10 3-4	2	1	English						10		
GEOGRAPHY & W HISTORY 1-2	2	1	WH						10		
GEOMETRY 1-2	2	1	Math						10	11	12
ALGEBRA II 1-2	2	1	Math						10	11	12
BIOLOGY I (L) 1-2	2	1	Bio I						10	11	12
EARTH & SPACE SCIENCE 1-2	2	1	3rd Sci						10	11	12
INT CHEMISTRY-PHYSICS 1-2	2	1	ICP						10	11	12
CHEMISTRY I (L) 1-2	2	1	ICP						10	11	12
PHYSICS I (L) 1-2	2	1	ICP						10	11	12
LAL 3-4	2	1	Elect						10		
MATH LAB AI II 1-2	2	1	Elect						10	11	12

Electives - Fine Arts

Things to consider about Fine Arts courses:

- All classes in the performing arts and virtually all classes in the visual arts are fine arts electives.
- Two credits in fine arts are required for an Academic Honors Diploma.
- There are AP and dual credit fine arts classes.
- All students can benefit from fine arts classes.
- There are no specific pathways in the fine arts, but there is one listed on the next page, Entrepreneurship, that can be useful for students concentrating in the visual or performing arts.
- Digital Design is an excellent pathway for those interested in visual arts, but the courses in this pathway do not count as fine arts credits.

	HS Course Name/ College #	Semesters	Cr per Sem	Credit Type	Dual Credit Prereq			College Credit	Eligible Grades			
					Read	Write	Math		9	10	11	12
VISUAL ARTS	DESIGN FUNDAMENTALS	1	1	Fine Art					9	10	11	12
	ADVANCED 2D ART	1	1	Fine Art					9	10	11	12
	INTRO 3D ART	1	1	Fine Art					9	10	11	12
	DRAWING 1	1	1	Fine Art						10	11	12
	DRAWING 2/ARTS100	1	1	Fine Art	25	26	NA	IvyT 3		10	11	12
	PAINTING 1-4	2	1	Fine Art						10	11	12
	VISUAL COMMUNICATION	1	1	Fine Art	25	26	NA	IvyT 3		10	11	12
	PHOTOGRAPHY 1-2	2	1	Fine Art					9	10	11	12
	PHOTOGRAPHY 3-6	2	1	Fine Art						10	11	12
	CERAMICS 1-2	2	1	Fine Art						10	11	12
	CERAMICS 3-6	2	1	Fine Art						10	11	12
	SCULPTURE 1-4	2	1	Fine Art						10	11	12
	JEWELRY 1-4	2	1	Fine Art						10	11	12
	ART HISTORY	1	1	Fine Art					9	10	11	12
	AP DRAWING 1	2	H1	Fine Art	AP Score 3-5			IvyT 3			11	12
	AP 2D ART & DESIGN 1	2	H1	Fine Art	AP Score 3-5			IvyT 3			11	12
	AP 3D ART & DESIGN 1	2	H1	Fine Art	AP Score 3-5			IvyT 3			11	12
PERFORMING ARTS	BEGINNING CONCERT BAND 1	2	1	Fine Art					9	10	11	12
	INTERMIDIATE CONCERT BAND 1	2	1	Fine Art					9	10	11	12
	ADVANCED CONCERT BAND	2	1	Fine Art						10	11	12
	JAZZ ENSEMBLE 1	2	1	Fine Art					9	10		
	JAZZ ENSEMBLE H 1	2	H1	Fine Art							11	12
	INTERMIDIATE ORCHESTRA 1	2	1	Fine Art					9	10	11	12
	ADVANCED ORCHESTRA 1	2	1	Fine Art						10	11	12
	BEGINNING CONCERT CHOIR 1	2	1	Fine Art					9	10	11	12
	INTERMIDIATE TREBLE CHOIR 1	2	1	Fine Art						10	11	12
	ADVANCED CHORUS 1	1	1	Fine Art						10	11	12
	CHORAL CHAMBER ENSEMBLE 1	2	H1	Fine Art						10	11	12
	PIANO & ELECTRONIC KEYBOARD	2	1	Fine Art					9	10	11	12
	AP MUSIC THEORY 1	2	HI	Fine Art	AP Score 3-5			IvyT 3		10	11	12
	MUSICAL THEATRE 1	1	1	Fine Art					9	10	11	12

Arts, Audio/Video Technology & Communications

Radio and Television provides students with learning experiences both in front of and behind the cameras and microphones. Students will have lessons and hands-on training in class with recording, scripting, and editing content. There will also be extensive project based learning and on-the-job training with real-world scenarios, long-form stories and live events in and around Mishawaka High School and the community.

IN-DEMAND OCCUPATIONS IN INDIANA

Projected over the next 10 years

Education Level	Occupation	Median Salary	Job Growth*	Job Openings*
High School+ Certification	Broadcast Technician	$33,300	1%	566
	Audio and Video Equipment Technician	$34,170	13%	1,044
Associate Degree	Camera Operator- TV, Video, and Motion Picture	$40,420	7%	293
	Graphic Designer	$41,550	4%	4,566
	Multimedia Artist and Animator	$52,810	6%	333
	Commercial and Industrial Designer	$63,700	11%	849
	Art Director	$67,170	5%	598
Bachelor's Degree	Public Relations Specialist	$55,460	10%	3,462

NEXT LEVEL PROGRAMS OF STUDY COURSE SEQUENCES

Entrepreneurship	Principals of Entrepreneurship ENTR100	New Venture Dev ENTR215	Small Business Ops ENTR220	Business Mgmt Capstone

Principles of Entrepreneurship focuses on students learning about their own strengths, character and skills and how their unique abilities can apply to entrepreneurship, as well as how an entrepreneurial mindset can serve them regardless of their career path. Students will learn about the local, regional and state resources and will begin to understand and apply the entrepreneurial process. The course helps students to identify and evaluate business ideas while learning the steps and competencies required to launch a successful new venture.

Digital Design	Principles of Digital Design VISC101	Digital Design Graphics VISC102	Interactive Media VISC105	Digital Design Capstone
			Graphic Dsn & Layout/ VISC115	
			Prof Photo & Video	not available yet

Principles of Digital Design introduces students to fundamental design theory. Investigations into design theory and color dynamics will provide experiences in applying design theory, ideas and creative problem solving, critical peer evaluation, and presentation skills. Students will have the opportunity to apply the design theory through an understanding of basic photographic theory and technique. Topics will include image capture, processing, various output methods, and light.

Radio & Television Broadcasting	Principles of Broadcasting	AV Production Essentials	Mass Media Production	Radio & TV Capstone
			Tech Skills R &TV	

Audio and Video Production Essentials provides 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. 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.

Advanced Manufacturing

The Advanced Manufacturing Pathway teaches students about modern manufacturing processes. Emphasis is placed on proper and safe tool operation, quality control, production, and maintenance operations. Students can earn four technical certifications from the Manufacturing Skills Standards Council (MSSC) and dual credit.

Architecture & Construction

The construction trades pathway teaches the necessary carpentry and related skills to build a house from the foundation up. Students will be well prepared to begin an entry-level position in a wide variety of construction jobs or further study at a post-secondary institution.

IN-DEMAND OCCUPATIONS IN INDIANA *Projected over the next 10 years*

Education Level	Occupation	Median Salary	Job Growth*	Job Openings*
High School+ Certification	Carpenter	$43,280	9%	20,374
	CNC Operator	$35,650	11%	8,311
	Machinist	$40,610	9%	20,009
	CNC Programmer	$45,610	27%	1,262
	Industrial Machinery Mechanic	$49,700	11%	13,138
	Industrial Engineering Technician	$50,780	7%	2,679
	Electrical and Electronics Repairer	$50,890	3%	967
	Electrical and Electronics Engineering Technician	$61,220	6%	2,096
Associate Degree	Interior Designer	$50,850	8%	987
	Architectural and Civil Drafter	$50,900	12%	1,354
	Construction Manager	$81,710	11%	5,468
	Electrical and Electronics Drafter	$60,870	12%	315
Bachelor's Degree	Architect	$83,930	9%	1,029
	Architectural and Engineering Manager	$115,410	9%	3,068

NEXT LEVEL PROGRAMS OF STUDY COURSE SEQUENCES

			take both	
Smart Manufacturing	Prin of Industry 4.0- SmartMfg SMDI 110	Robot Design & Innov SMDI 111	Smart Mfg Systems SMDI 130	Ind 4.0-Smart Mfg Capstone
			Tech Skills Ind 4.0	

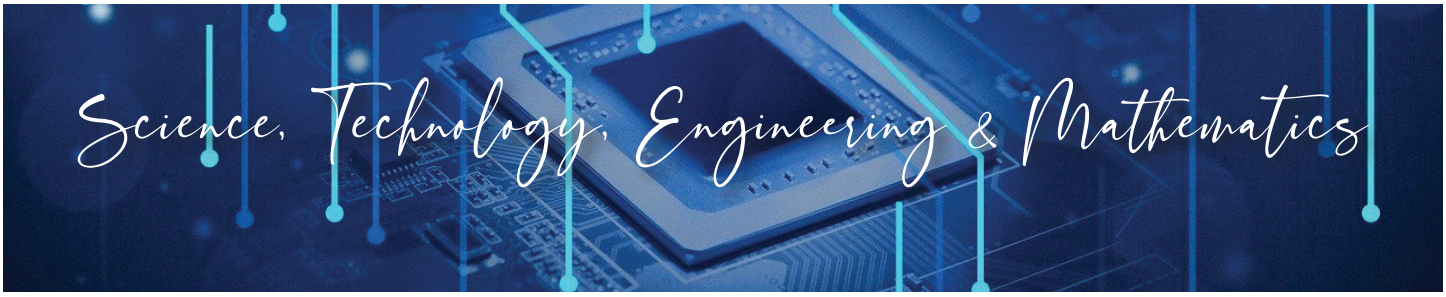
Principles of Industry 4.0 introduces students to the Industrial Internet of Things (IIoT). Students will explore industry 4.0 technologies such as artificial intelligence (AI), human to robot collaboration, big data, safety, electrical, sensors, digital integration, fluid power, robot operation, measurement, CAD, CNC, additive manufacturing, print reading, and technical mathematics. Students will complete hands-on labs, virtual simulations, projects, and critical thinking assignments to help prepare for SACA C-101 Certified Industry 4.0 Associate I - Basic Operations certification exam.

			take both	
Precision Machining	Principles of Precision Machining	Principles of Machining Fundamentals	Advanced Precision Machining	Precision Macining Capstone

Principles of Precision Machining will provide students with a basic understanding of the processes used to produce industrial goods. Classroom instruction and labs will focus on shop safety, measurement, layout, blueprint reading, shop math, metallurgy, basic hand tools, milling, turning, grinding, and sawing operations. This course prepares the student for the optional National Institute for Metalworking Skills (NIMS) Measurement, Materials, & Safety certification that may be required for college dual credit.

			take both	
Construction Trades Carpentry	Principles of Construction Trades BCTI100	Construction Trades: Carpentry BCTI 101-2	Construction Trades: Frame & Finish BCTI 103-4	Construction Trades Capstone BCTI 201-2
			Tech Skills Const	

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.



Engineering

The Engineering/STEM Pathway is the perfect choice for careers in engineering and technology. Instruction is hands-on/project-based with many real-world applications. A large number of the classes are worth college credit.

Automation & Robotics

The Automation and Robotics Pathway teaches students about robot design and industrial automation with hands on activities and project-based learning. Students will compete in the FIRST Technology Challenge and FIRST Robotics Challenge, as well as designing automated systems leveraging Programmable Logic Controllers.

Information Technology

The Computer Science (CS) Pathway equips students with foundational and applicable knowledge of CS that can be used to further the pursuit of a CS degree or in the workforce. In this pathway students will work with JavaScript, Python, Mobile App creation, cyber-security, and video game design.

IN-DEMAND OCCUPATIONS IN INDIANA *Projected over the next 10 years*

Education Level	Occupation	Median Salary	Job Growth*	Job Openings*
High School+ Certification	Engineer Technician	$63,980	5%	1,474
Associate Degree	Computer User Support Specialist	$48,800	13%	8,483
	Web Developer	$59,080	11%	1,614
	Network and Computer Systems Administrator	$70,950	7%	5,394
Bachelor's Degree	Computer Systems Analyst	$76,860	11%	6,616
	Information Security Analyst	$79,370	34%	1,306
	Software Developer, Applications	$82,210	37%	9,412
	Industrial Engineer	$74,030	19%	7,900
	Mechanical Engineer	$75,960	14%	6,627
	Electrical Engineer	$79,120	8%	2,517
	Computer and Information Research Scientist	$100,910	25%	282
	Biochemist and Biophysicist	$110,630	15%	262

NEXT LEVEL PROGRAMS OF STUDY COURSE SEQUENCES

			take one or more	
Engineering	Intro to Engineering Design DESN101 (3)	Principles of Engineering DESN104 (3)	Civil Engr & Arch DESN105 (3)	Engineering Design & Development
			Aerospace Engr	
			Computer Integ Mfg/ADMF116 (3)	
			Environmental Sustain	

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.

Biomedical Science & Technology	Principles of Biomedical Science	Human Body Systems	Medical Interventions	Biomed Innovations

Principles of the 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.

Software Development	Principles of Computing/ SDEV120	Web & Database Dev SDEV153	Software Develop SDEV140	Software Dev Capstone

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 Website and Database design. 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.

Computer Science	Principles of Computing SDEV120	Topics in Computer Science	Computer Science	Computer Science Capstone

Topics in Computer Science is designed for students to investigate emerging disciplines within the field of computer science. Students will use foundational knowledge from Principles of Computing to study the areas of data science, artificial intelligence, app/game development, and security. Students will utilize knowledge related to these areas and programming skills to develop solutions to authentic problems.

Computer Science introduces the fundamental concepts of procedural programming. Topics include data types, control structures, functions, arrays, files, and the mechanics of running, testing, and debugging. The course also offers an introduction to the historical and social context of computing and an overview of computer science as a discipline.

Education & Training / Hospitality & Tourism

Education and Training

This program prepares students for early childhood education careers. Students will learn and understand child's physical, intellectual, and social-emotional development from the prenatal stage through school-age. They will learn curriculum development to teach preschool age children, assess learning and assist in a preschool setting.

IN-DEMAND OCCUPATIONS IN INDIANA *Projected over the next 10 years*

Education Level	Occupation	Median Salary	Job Growth*	Job Openings*
High School+ Certification	Teacher Assistant	$22,620	7%	27,801
Associate Degree	Preschool Teacher	$26,900	9%	5,865
Bachelor's Degree	Special Education Teacher, Kindergarten, and Elementary	$48,980	6%	2,031
	Elementary School Teacher	$49,250	6%	20,454
	Middle School Teacher	$51,400	6%	7,419
	Secondary School Teacher	$51,870	6%	14,033
	School and Guidance Counselor	$51,950	11%	4,658

Hospitality and Tourism

Culinary Arts prepares students for occupations and/or higher education related careers in the food service industry. Instruction and lab experiences to include catering events will focus on commercial applications of culinary arts. Students will master the National Restaurant Association's ServSafe curriculum.

IN-DEMAND OCCUPATIONS IN INDIANA *Projected over the next 10 years*

Education Level	Occupation	Median Salary	Job Growth*	Job Openings*
High School+ Certification	Baker	$25,380	8%	5,190
	Housekeeping Supervisor	$35,470	11%	5,710
	Chef and Head Cook	$41,380	9%	2,737
	Lodging Manager	$44,410	3%	572
	Gaming Supervisor	$48,600	1%	1,030
	Food Service Manager	$52,590	8%	5,445

NEXT LEVEL PROGRAMS OF STUDY COURSE SEQUENCES

Early Childhood	Prin of Early Child Ed ECED100	Early Child Ed Curric ECED103	Early Childhood Education Guidance ECED130	Early Childhood Ed Cap
			Tech Skills Early Childhood	WBL Capstone

Principles of Early Childhood Education provides an overview of the history, theory, and foundations of early childhood education as well as exposure to types of programs, curricula and services available to young children. This course also examines basic principles of child development, developmentally Appropriate Practices (DAP), importance of family, licensing, and elements of quality care of young children with an emphasis on the learning environment related to health, safety, and nutrition.

			take both	
Education Professions	Principles of Teaching EDUC101	Child & Adolescent Dev EDUC121	Teaching & Learning EDUC201	Education Professions Cap IU ACP F200, F203
			Tech Skills Ed Profession	

Principles of Teaching 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.

			take both	
Culinary Arts	Principles of Culinary & Hospitality HOSP101&102	Nutrition HOSP104	Culinary Arts HOSP103 & 105	Culinary Capstone
			Tech Skills Culinary	

Principles of Culinary and Hospitality is designed to develop an understanding of the hospitality industry and career opportunities, and responsibilities in the food service and lodging industry. Introduces procedures for decision making which affects operation management, products, labor, and revenue. Additionally, students will learn the fundamentals of food preparation, basic principles of sanitation, service procedures, and safety practices in the food service industry including proper operation techniques for equipment.

		take both		
Human & Social Services	Principles of Human Services HUMS10	Understanding Diversity HUMS109	Relationships & Emotions HUMS135 & 140	Human Services Capstone
		Human Dev & Wellness		

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 dual credit requirements).

			take both	
Fashion Textiles & Design	Prin of Fashion &Textiles	Texiles & Merchandising	AdvancedTextiles	Fashion &Textiles Capstone
			Tech Skills Textiles	WBL Capstone

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

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

Finance

This pathway includes learning how to create and interpret financial statement, what investment opportunities exist and how they affect the investor, and how the insurance industry works and much more. Careers that would be in this pathway included are stockbroker, auditor, CPA, tax accountant, etc.

IN-DEMAND OCCUPATIONS IN INDIANA *Projected over the next 10 years*

Education Level	Occupation	Median Salary	Job Growth*	Job Openings*
High School+ Certification	Tax Preparer	$34,840	17%	3,081
	Billing Clerk	$35,460	14%	10,769
	Insurance Claims and Policy Processing Clerk	$37,610	10%	4,995
Associate Degree	Insurance Sales Agent	$58,910	9%	11,589
	Financial Services Sales Agent	$96,940	5%	4,215
Bachelor's Degree	Accountant and Auditor	$65,880	11%	22,345
	Personal Financial Advisor	$104,710	16%	4,070
	Financial Manager	$113,150	19%	7,896

Marketing and Sales

Entrepreneurship pathway includes learning to create and interpret financial statements, the different forms of business ownership, creating a business plan, laws surrounding business, learning how to market a product, and use of Microsoft Office Suite. Careers in this pathway include owning your own business, buying into a franchise, running a non-profit, being a business consultant, etc.

IN-DEMAND OCCUPATIONS IN INDIANA *Projected over the next 10 years*

Education Level	Occupation	Median Salary	Job Growth*	Job Openings*
High School+ Certification	Real Estate Sales Agent	$61,880	5%	4,696
Associate Degree	Logistician	$65,950	11%	2,291
	Marketing Manager	$109,480	11%	2,889
	Sales Manager	$115,380	8%	5,560
Bachelor's Degree	Market Research Analyst and Marketing Specialist	$56,210	23%	11,258

NEXT LEVEL PROGRAMS OF STUDY COURSE SEQUENCES

Information Technology Operations	Principles of Computing SDEV120	Info Tech Fundament ITSP132	Network & Cybersec Ops	IT Support Capstone

Information Technology Fundamentals provides the necessary competencies required for an entry-level Information Technology Professional. Students will have the knowledge required to assemble components based on customer requirements, install, configure and maintain devices/software for end users, understand the basics of networking and security, properly and safely diagnose, resolve and document common hardware and software issues while applying troubleshooting skills. Students will also learn appropriate customer support, understand the basics of virtualization, desktop imaging, and deployment. This course should also prepare students for the CompTia A+ Certification Exam.

Accounting	Principles of Business Mgmt BUSN101	Accounting Fundamentals ACCT101	Advanced Accounting ACCT106	Accounting Capstone
				WBL Capstone

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

Entrepreneurship	Principles of Entrepreneurship	New Venure Development	Small Business Operations	Entrepreneurship Capstone

Principles of Entrepreneurship focuses on students learning about their own strengths, character and skills and how their unique abilities can apply to entrepreneurship, as well as how an entrepreneurial mindset can serve them regardless of their career path. Students will learn about the local, regional and state resources and will begin to understand and apply the entrepreneurial process. The course helps students to identify and evaluate business ideas while learning the steps and competencies required to launch a successful new venture. The course helps students apply what they have learned from the content when they write a Personal Vision Statement, a Business Concept Statement, and an Elevator Pitch.

			take both	
Marketing & Sales	Principles of Business Mgmt BUSN101	Mktg Fundamentals MKTG101	Strategic Mktg MKTG201	Business Mgmt Capstone
			Digital Mktg MKTG252	WBL Capstone

Marketing Fundamentals provides a basic introduction to the scope and importance of marketing in the global economy. Course topics include the seven functions of marketing: promotion, channel management, pricing, product/service management, market planning, marketing information management, and professional selling skills. Emphasis is marketing content but will involve use of oral and written communications, mathematical applications, problem-solving, and critical thinking skills through the development of an integrated marketing plan and other projects.

Business Operations & Technology	Principles of Business Operations & Technology	Business Office Communications	Digital Data Applications	Business Operations & Technology Capstone

The Principles of Business Operations and Technology course will prepare students to plan, organize, direct, and control the functions and processes of a firm or organization and be successful in a work environment. Students are provided opportunities to develop attitudes and apply skills and knowledge in the areas of business, management, Microsoft office, and finance. Individual experiences will be based upon the student's career and educational goals.

Health Science

This pathway is designed for students who are interested in careers in the science and medical fields. Students learn medical terminology, human physiology, genetics and cancer, biomedical engineering, and much more. They will get real life experience through job shadows and internship programs in the fourth year of the program.

IN-DEMAND OCCUPATIONS IN INDIANA *Projected over the next 10 years*

Education Level	Occupation	Median Salary	Job Growth*	Job Openings*
High School+ Certification	Nursing Assistant	$25,000	11%	40,167
	Emergency Medical Tech and Paramedic	$33,140	14%	4,595
Associate Degree	Licensed Practical or Vocational Nurse	$41,540	12%	14,071
	Physical Therapist Assistant	$55,950	32%	3,674
	Dental Hygienist	$67,230	19%	4,236
Bachelor's Degree	Athletic Trainer	$44,460	19%	437

Human Services

Cosmetology classes are available through the Elkhart Area Career Center and Vogue Mishawaka. Both programs lead to licensure in cosmetology, yield high school credit and possibly college credit.

IN-DEMAND OCCUPATIONS IN INDIANA *Projected over the next 10 years*

Education Level	Occupation	Median Salary	Job Growth*	Job Openings*
High School+ Certification	Hairdresser, Hairstylist, and Cosmetologist, Barber	$25,060	10%	18,537
	Fitness Trainer	$32,560	7%	7,813
Associate Degree	Community Health Worker	$42,820	17%	1,724
Bachelor's Degree	Child, Family, and School Social Worker	$38,940	12%	7,273
	Healthcare Social Worker	$48,080	21%	5,989

NEXT LEVEL PROGRAMS OF STUDY COURSE SEQUENCES

			take both	
Pre-Nursing	Principles of Healthcare	Medical Terminology	Healthcare Spec: CNA CNA Cert-Legacy	Healthcare Specialist Cap
			Anatomy & Physiology	WBL Capstone

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.

Exercise Science	Principles of Exercise Science	Kinesiology	Human Performance	Fitness Mgmt Capstone
				WBL Capstone

Principles of Exercise Science provides an introduction to the science of exercise and human movement. Special topics include exercise physiology, sport biomechanics, sports medicine, and motor integration. Additionally, the course will examine career options in sport, health and wellness, education, and the medical fields like personal trainer, athletic training and physical therapy.

	9 Principles		10 Concentrator A			
Cosmetology					Principles of Barbering & Cosmetology	Barbering & Cosmetology Capstone
					Barbering & Cosmetology Fundamentals	
					Advanced Cosmetology	Cosmetology Cert (Vogue)

Principles of Cosmetology offers an introduction to cosmetology with emphasis on basic practical skills and theories including roller control, quick styling, shampooing, hair coloring, permanent waving, facials, manicuring, business and personal ethics, and bacteriology and sanitation. Successful completion of the entire program requires 1,500 Cosmetology studio hours.

Exceptional Learners

Special Education

Special Education services are available to all students who are eligible according to the Federal and State guidelines and who have current Individual Education Plans (IEPs) specifying the type and amount of services to be provided. These services include, but are not limited to, the following:

Consultation Services

The student is served in the general education classroom with consultation and support from the special education teacher. Accommodations may be made to the curriculum, materials, tests, classroom management, or classroom environment.

Resource Services

The student is served in the general education classroom but receives regular, direct support from the special education teacher. Direct support may include remedial tutoring, curriculum adaptations, testing, and direct instruction. Resource services can be provided for 20% of the school day or less.

Part-time Special Education Services

A special education teacher serves the student for 21% to 60% of the school day. Classes are offered in a special education setting and taught by a special education teacher. In a special education course, curriculum content may not meet the state proficiency requirements for a diploma.

Full-time Special Education Services

The student is served by a special education teacher for more than 60% of the school day. Full-time programs are provided to students who have such significant special education needs that they cannot benefit from instruction with only part-time support. Full-time services include three program options:

Applied Courses: Students who elect applied courses are served by a special education teacher in a special education setting. These courses contain modified curriculum. These courses do not meet the state proficiency requirements for a diploma. Students work on developing vocational and real life skills that will result in a Certificate of Completion. Courses offered in the applied setting vary by year and are dictated by the Indiana Course of Study for Certificate of Completion.

The Functional Life Skills Program

This program is an activity/community based program designed to make students with significant disabilities as independent as possible within the school and community environments. Whenever appropriate, students receive their training in general education settings with non-disabled peers. Students do not earn course credit toward a diploma but will receive a Certificate of Completion. Courses available in the functional life skills program include (but are not limited to):

Reading
Math
Health
Foods
Physical Education
Work Experience
Community Based Instruction

Anyone having specific questions about Exceptional Learners, may contact the Executive Director, Mrs. Barbara Michalos at 254-4528.

Specific questions about the Mishawaka High School program for students with special needs can be directed to the Department Chairperson, Jennifer Grimm at 254-7349.

Special Education

COURSES FOR AN ALTERNATE DIPLOMA

HS Course Name/College #	HS CR Per Sem	Eligible Grades			
		9	10	11	12
English 1, 2	1	9	10		
English 3, 4	1	9	10		
English 5, 6	1			11	12
English 7, 8	1			11	12
Algebra I	1		10	11	12
B Skills Math	1		10	11	12
Analytic Alg II	1		10	11	12
Math Lab AA2	1		10	11	12
Geometry	1			11	12
CCR Math	1			11	12

COURSES FOR A CERTIFICATE

HS Course Name/College #	Grades
Applied Health	9–12
Applied B Skills	11–12
Appl English 9, 10	9–10
Appl English 11, 12	11–12
Appl Dev Reading	9–12
Appl Civics	9
Appl Geo & W His	10
Appl Gov	11–12
Appl Bus Math	10–12
Appl Alg	9–10
Appl Bio I	9–12
Appl E Science	9–12
Appl Col & Cr	9–10
Appl Nutr & Well	9–12
Appl PE	9–12
Appl CR Info	11–12
Appl CR Expl	11–12
Appl Wbl	9–12
Appl Com SVC	11–12

Certificate of Completion:

Pursuit of a Certificate of Completion is a Case Conference decision based on the individual needs of the student. Students on this path (starting with the class of 2022) must meet requirements for the Course of Study for Certificate of Completion while meeting the individual goals and transition needs stated in the student's Individual Education Plan (IEP). Students on this track are focused on meeting high individual expectations. Communication skills, reading skills, problem solving skills are woven into all classes.

Capstones, Co-op & Work Based Learning

1 Capstone Classes

Capstone classes are the fourth class in a CTE pathway. These classes are available to seniors, and in some cases juniors, who have already taken one or two advanced classes in that pathway.

Capstone classes can be internships, pre-apprenticeships, work-based experiences, or other types of career training and interaction. Each capstone class has its own specific requirements. Please see the DOE course offerings for descriptions.

This is typically a 1/2 day program taken for 6 credits.

2 Work-Based Learning

Work Based Learning Capstone experiences occur in workplaces and involve an employer assigning a student meaningful job tasks to develop his or her skills, knowledge, and readiness for work. A clear partnership agreement and training plan is developed by the student, teacher, and workplace mentor/supervisor to guide the student's work-based experiences and assist in evaluating achievement and performance. Related instruction is planned around the activities associated with the student's individual job and career objectives in a pathway and shall be taught during the same semester.

To participate, students must take a classroom component that is, at minimum, 18 hrs/sem.

3 Cooperative Education

Cooperative Education 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 fifteen hours per week of on-the-job training and approximately five hours per week of school-based instruction, focused on employability skills development.

This course is not required to be attached to a student's CTE pathway.

Capstones and WBL are culminating courses in a student's logical sequence of courses for first-hand experience related to the Indiana Career Pathway diploma.

Benefits of Work Based Learning:

- Exposes students to career opportunities
- Gives students opportunities to observe professionals in action
- Helps students network with potential employers
- Enhances student employability skills
- Provides a potential talent development pipeline for local companies
- Connects classroom learning to real-world experiences

Pathway Capstone Courses

Each NLPS pathway has a Capstone course available. These capstone courses are designed to enrich and extend the student's understanding of their chosen career pathway. Many capstone courses are designed to dovetail with employment opportunities and internships within the career path. Students who are interested in pursuing more in-depth exposure to their career pathway should explore work-based learning, internships, and other opportunities provided by MHS in tandem with local employers. The complete descriptions of Pathway Capstone Courses can be found in the IN DOE course descriptions.

Work-Based Learning (WBL)

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

Strategic Marketing & Work Based Learning:

Most WBL students take WBL in tandem with Strategic Marketing to maximize credit earnings and fulfill pathway requirements.

- Recommended Grade: 12
- Required Prerequisites: Complete at least one advanced career technical education (CTE) course from a program or programs of study.
- Work site placement must align to the student career pathway.
- Recommended Prerequisites: none
- Credits: 1 semester course, 1-3 credits per semester, 6 credits maximum
- A minimum of 85 hours of workplace and classroom activities are required for one credit; 170 hours are required for the two credits. Of the 85 or 170 hours, 18 to 36 hours (at least 1 hour a week or the equivalent over a semester or year) must be spent in related classroom instruction.
- Counts as a directed elective or elective for all diplomas

Cooperative Education:

Cooperative Education 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 fifteen hours per week of

on-the-job training and approximately five hours per week of school-based instruction, focused on employability skills development. Additionally, 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 and Careers, two credits in a career and technical education course
- 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

Mishawaka High School is developing partnerships with local industry to provide internship opportunities. One such company is B and B Molders.

B and B Molders:

Wondering what life after high school could look like if higher education is not part of your near-term plans after graduation? Explore the possibilities of a career working for a local plastics manufacturing company (B & B Molders). This course will provide you with practical, hands-on, real life experience while earning high school credits and receiving a weekly wage.

Get a first-hand look at designing, testing and producing molded plastic parts sold throughout the United States. You will spend time in each of the following manufacturing departments: Engineering & Design, Raw Material Handling & Mixing, Mold & Tool Making Plastics Processing, Mold Repair, Production Floor Press Operation, and Quality Control & Monitoring.

You will learn each department's workflow and how they work together to produce a quality product on a consistent, repeatable basis.

You will be working in a scientific molding operation which is highly automated. State of the art machinery includes Computer Numerical Control (CNC) milling equipment, 15 hydraulic and electric injection molding presses along with automated assembly equipment. You will have exposure to current design software programs including Autodesk Inventor, MoldFlow, MasterCam and AutoCad.

Successful students interested in pursuing a career in manufacturing after graduation may qualify for educational assistance from their employer to further develop their skills and achieve journeyman status.

How to take this course:

- **Capstone** - a student who has completed a pathway in precision machining or other related pathway
- **WBL** - a student who has completed a CTE pathway in an unrelated field

You will learn each department's workflow and how they work together to produce a quality product on a consistent, repeatable basis.

You will be working in a scientific molding operation which is highly automated. State of the art machinery includes Computer Numerical Control (CNC) milling equipment, 15 hydraulic and electric injection molding presses along with automated assembly equipment. You will have exposure to current design software programs including Autodesk Inventor, MoldFlow, MasterCam and AutoCad.

Successful students interested in pursuing a career in manufacturing after graduation may qualify for educational assistance from their employer to further develop their skills and achieve journeyman status.

- **Co-op** - a student who has not completed a pathway, has fulfilled Bucket 3 with something other than a CTE pathway, and wants a work experience

Cadet Teaching 1, 2

Length of Course: Two Semesters - 1 Credit each
Prerequisite: Application and approval of instructor and MHS ACP coordinator

COURSE: *This is a career exploration course. It provides foundational knowledge and skills and is intended to prepare students for a future as an education major in college. Students create an extensive portfolio throughout the year: during the first semester students are largely in the MHS classroom, but also observe in elementary classrooms. Upon successful completion of the first semester (B or higher), students are matched with a cooperating elementary teacher and placed in a "field experience" for the second _ fouth semesters. The second semester of Cadet Teaching can be taken for three college credit through IU ACP. To enroll in F200, Futures in Education, students must complete the ACP application, have at least a 2.7 GPA, and pay tuition within the deadlines established by IU ACP.*

Cadet Teaching 3, 4

Length of Course: Two Semesters - 1 Credit each
Prerequisites: Successful completion of Cadet Teaching 1, 2 and recommendation from Cooperating Teacher

COURSE: *Students continue to develop their teaching skills through a full-year field experience at a designated elementary school. Upon successful completion of Cadet 1-4, MHS graduates who are enrolled in college will be considered for elementary-level substitute teaching positions prior to attaining their bachelor's degrees.*

Alternative Education Programs

Mishawaka Education Center (MEC)

This program is designed for students who struggle in the traditional classroom setting, either academically or behaviorally, and are behind on credits, or are deemed "at risk" upon entry to MHS. The Mishawaka Education Center provides these students with the opportunity to be successful and establish a path to graduation. Available to 9th–11th graders, participants receive daily direct instruction in math and English; direct instruction in science, social studies and career pathway classes; and the opportunity to recover credits. All of this leads directly to a high school diploma. A smaller classroom setting facilitates these goals. The MEC is staffed by several fully qualified, experienced and passionate educators whose sole goal is to provide instruction, guidance and support for students. Students are selected for this program by the Mishawaka High School administration team with assistance from the counseling department and program staff members.

Day Alternative Education (Day Alt)

TThis program is designed to provide students with the opportunity to recover credits for courses they previously failed. Classes are assigned in a School City of Mishawaka approved online education platform and can be completed on the student's school device. Work for the courses can be completed both in-person and remotely in a supervised setting. Students are assigned to the Day Alternative Education program by their school counselor. Students who do not make significant progress toward credit recovery will be removed and placed back into a traditional course or have to take the course in summer school.

Note: This class is only for students who need to recover credits from previously-failed classes. Students may not drop a traditional course to take the same course in the Day Alt.

Night School

Intended to serve as an evening option for juniors and seniors with adverse life situations who cannot attend traditional day school, the Night School program has similarities with both the Day Alternative Education

Program and the MEC. Night school meets Monday through Friday from 3:00 p.m. to 9:00 p.m. on any day that traditional school is in session. There are two three-hour sessions each day. Students may be assigned to one or both night sessions depending on their status and progress towards graduation. In addition to credits earned online, students will receive direct instruction in a career pathway course that will help fulfill graduation requirements. In special circumstances, students could be enrolled in day school and Night School in order to ensure a timely graduation.

For full course descriptions visit:

Application also available online at: mishawakaschools.com/earlycollege

Mishawaka High School
Early College Program
APPLICATION

Part A: to be completed by parent/guardian

Student Name:_____
last first middle

Date of Birth: _____ Date: _____
MM/DD/YYYY

Parent/Guardian #1 Name: _____
last first middle

Address: _____
street

_____
city state zip

Parent/Guardian #2 Name: _____
last first middle

Address: _____
street

_____
city state zip

Who does the student live with? P/G#1 ❒ P/G#2 ❒ Both ❒

Education level of parent/guardian #1: _____
pick one from list on the right

Education level of parent/guardian #2: _____
pick one from list on the right

Level Completed
GED
HS diploma
Some college
Associate's degree
Bachelor's degree
Master's degree
Professional or Doctoral degree

Does the student receive free or reduced lunch? Yes ❒ No ❒
Does the student intend to apply for the 21st Century Scholars Program? Yes ❒ No ❒

Essential family support:
1. You must ensure that your child is available to participate in the 3-week bridge program each summer, if required.
2. You must provide a quiet and safe place for your child to study/do homework for one to two hours per night.
3. You must check weekly on your child's progress and ensure that they are completing all assignments on time.
4. You must work closely with your child and the school in setting realistic goals and support your child in achieving them.

I understand the above requirements and agree to do my best to support my child in reaching their Early College goals.

_____ _____
(signature) (signature)

MHS Early College Program Application, page 2

Part B: to be completed by student

Pick one that most interests you from the following list:

- ❒ Business
- ❒ Culinary Arts, Hospitality & Human Services
- ❒ Performing Arts
- ❒ Visual Arts and Communications
- ❒ Liberal Arts (balance of core subjects)
- ❒ Manufacturing and Construction
- ❒ PLTW Biomedical and Health Science
- ❒ PLTW Engineering and Technology
- ❒ STEM (focus on Science, Technology, Engineering, Mathematics)

Why do you want to be a part of the EC program? (Please explain your goals – minimum 3 sentences)

Student commitment:

1. You must participate in the 3-week bridge program each summer, if required.
2. You must study/do homework for one to two hours per night at a minimum.
3. You must complete all assignments on time.
4. You must work closely with your parents and the school in setting realistic goals and strive to complete them.

I understand the above requirements and agree to do my best to reach my Early College goals.

_____
(signature)

Part C: to be completed by recommending teacher

Teacher Name: _____ How long have you known the student? _____

Teacher Comments (please comment on ability, persistence, and potential): *(optional)*

Does the student have attendance problems that will prevent his/her success in the program? Yes ❒ No ❒

Do you recommend the student for EC? Yes ❒ No ❒

_____
(signature)

Pathways to Consider

Arts, Audio/Video Technology & Communications

Advanced Manufacturing / Architecture & Construction

Science, Technology, Engineering & Mathematics

Education & Training / Hospitality & Tourism

Finance / Marketing & Sales

Health Science / Human Services