

LAKE CENTRAL HIGH SCHOOL  
COURSE SELECTION GUIDE  
FRESHMEN CLASS OF 2026



*2022-2023*

# LAKE CENTRAL HIGH SCHOOL

Office Hours: 6:50 a.m. – 2:50 p.m.

Phone: 219-365-8551

Lake Central High School (LCHS) is located in St. John, Indiana and serves the “Tri-town Area” which includes the communities of Dyer, Schererville, and St. John, Indiana. The Tri-town covers an area of 32 square miles and has over 60,000 diverse residents. Situated in the northwest corner of Indiana only 35 short miles southeast of Chicago, IL and 158 miles northwest of Indianapolis, IN. The district’s proximity to large metropolitan areas, along with settings ranging from suburban to rural, has caused continued growth and desirability in the community.

The Lake Central Community School district comprises of six elementary schools (K-4), three middle schools (5-8), and one high school (9-12). Approximately 10,000 culturally, academically, and economically diverse students are served in an educationally rigorous and challenging atmosphere

As a result of rapid community growth and advances in educational technology, LCHS completed a significant renovation in 2015 on the current school campus.

Renovations include:

- 880,000 square feet of student-centered space
- Three story Academic Wing
- Olympic size competition pool
- 1,100 seat Theatre
- Outdoor Athletic Complex with turf baseball, softball and football fields
- 3,800 seat gym

Lake Central High School is fully accredited by the State of Indiana. The course offerings available to LCHS students are among the most abundant and rigorous in the state.

- 206 Course Options
- 23 Advanced Placement (AP) Courses
- 30 Dual Credit Courses, with more available through the Area Career Center
- 23 Career Technology Courses and Certifications
- 18 Honors/Advanced Courses
- 7 Project Lead The Way (PLTW) Courses
- Social and Emotion Learning (SEL) Curriculum

Lake Central High School enrolls approximately 3,200 students in grades 9-12. This places LCHS as one of the top 6 largest public high schools in the State of Indiana.

## Graduates

- 96% Graduation Rate
- 91% Core 40 Diploma or higher
- 38% Core 40 with Academic Honors
- 75% of Graduates pursued a college education

## State of Indiana

### End of Course Assessments or Met Graduation Pathway

**93% of LCHS Graduates were proficient in both English and Math ECA Standards or met a Graduation Pathway**

## Advanced Placement

- 1,398 AP Tests taken in 2021
- 52% Earned a 3 or higher

## Dual Credit

- 40,000+ Dual Credits earned since 2011
- Dual Credit partnerships with FOUR Indiana universities/colleges!

**LCHS CLASS OF 2021 earned more than \$19 MILLION in SCHOLARSHIPS!!**



## GRADUATION REQUIREMENTS

*Every student must have at least 46 credits in order to receive a diploma from Lake Central High School. One credit for each course passed each semester.*

CORE40 (minimum 46 credits)	
Course and Credit Requirements	
English/ Language Arts	8 credits Including a balance of literature, composition and speech.
Mathematics	6 credits 2 credits: Algebra I 2 credits: Geometry 2 credits: Algebra II <i>Students must take a math or quantitative reasoning course each year in high school</i>
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 AP Human Geography/Geography/History of the World
Directed Electives	5 credits World Languages Fine Arts Career-Technical
Physical Education	2 credits (1 Gym, 1 Pool)
Health and Wellness	1 credit
Personal Financial Responsibility	1 credit
Electives*	6 credits *At least 6 credits should come from a College and Career Pathway.
Lake Central High School - 46 Total Credits Required	

## CORE40 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 a "C" or better in courses that will count toward the diploma.
- Have a grade point average of a "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 transcribed college credits in dual credit courses from the approved dual credit list.
  - C. Earn two of the following:
    1. A minimum of 3 verifiable transcribed college credits from the approved dual credit list,
    2. 2 credits in AP courses and corresponding AP exams,
  - D. Earn a combined score of 1750 or higher on the SAT critical reading, mathematics and writing sections and a minimum score of 530 on each
  - E. Earn an ACT composite score of 26 or higher and complete written section

## CORE40 with Technical Honors (minimum 47 credits)

- 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. State approved, industry recognized certification or credential, or
  2. Pathway dual credits from the approved dual credit list resulting in 6 transcribed college credits
- Earn a grade of "C" or better in courses that will count toward the diploma.
- Have a grade point average of a "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: Reading for Information – Level 6, Applied Mathematics – Level 6, and Locating Information-Level 5.
  - C. Earn the following minimum score(s) on Accuplacer: Writing 80, Reading 90, Math 75.
  - D. Earn the following minimum score(s) on Compass: Algebra 66, Writing 70, Reading 80

### Succeeding with the Indiana Core 40 (Lake Central students must earn 46 credits)

#### STUDENTS:

- ***Must meet the Core 40 standard to be considered for admission to an Indiana four-year college or university.***
- ***Should meet the Core 40 standard to ensure success in one-year and two-year college and technical training programs.***
- ***Should meet the Core 40 standard to ensure success in the workforce.***

The Core 40 diploma became Indiana's required high school curriculum with the class of 2010. Students entering high school after 2010 are expected to complete the requirements for a Core 40 diploma.

By providing all Indiana students a balanced sequence of academically rigorous high school courses in the core subjects of English/language arts, mathematics, science, and social studies; physical education/health and wellness; and electives including world languages, career/technical, and fine arts, the Core 40 requirement gives all our students the opportunity to compete with the best. For more information about Core 40 and your career and course plan, see your counselor and/or visit Learn More Resource Center at [www.learnmoreindiana.org](http://www.learnmoreindiana.org).

To graduate with less than Core 40, a student must complete a formal opt-out process involving parental consent. See your school counselor for further details.

This Graduation Pathway Checklist is for the Class of 2023 and beyond.

# Lake Central High School

## Graduation Pathway Checklist



**Student Name:** \_\_\_\_\_ **Cohort:** \_\_\_\_\_

*Students must complete all three Graduation Pathway Requirements*

### 1. Indiana High School Diploma

☐

General

☐

Core 40

☐

Academic Honors

☐

Technical Honors

### 2. Learn and Demonstrate Employability Skills

**Students must complete at least one of the following:**

☐

**Project-Based Learning:** Working for an extended period of time to investigate and respond to an authentic, Learn and Demonstrate engaging, and complex question, problem, or challenge. Students engage in a rigorous, extended process of asking questions, Employability Skills finding resources, and applying information. Students often make work public by explaining, displaying, and/or presenting it to people beyond the classroom. This can include completion of a research project, completion of a course capstone, an AP Capstone Assessment, or another experience as approved by the State Board of Education. **Courses that meet Project-Based Learning guidelines are noted in the Course Selection Guide.**

Description: \_\_\_\_\_

Verification Product: \_\_\_\_\_

☐

**Service-Based Learning:** Integrates meaningful service to enrich and apply academic knowledge, teach civic and personal responsibility, and strengthen communities. This can include participation in a meaningful volunteer or civic engagement experience, engagement in a school-based activity, such as a co-curricular or extracurricular activity or sport for at least one academic year, or another experience as approved by the State Board of Education.

Description: \_\_\_\_\_

Verification Product: \_\_\_\_\_

☐

**Work-Based Learning:** Reinforces academic, technical, and social skills learned in the classroom through collaborative activities with employer partners, allowing students to apply classroom theories to practical problems, explore career options, and pursue personal and professional goals. This can include completion of a course capstone, completion of an internship, obtaining the Governor's or Local Work Ethic Certificate, employment outside of the school day, or another experience as approved by the State Board of Education.

Description: \_\_\_\_\_

Verification Product: \_\_\_\_\_

### 3. Postsecondary -Ready

**Students must complete at least one of the following:**

☐

Honors Diploma ☐ AHD ☐ THD

☐

ACT College Ready Benchmarks (18 in English or 22 in Reading and 22 in Math or 23 in Science)

English \_\_\_\_\_ or Reading \_\_\_\_\_ and Math \_\_\_\_\_ or Science \_\_\_\_\_ Competencies

☐

SAT College Ready Benchmarks (480 in EBRW, 530 in Math) EBRW \_\_\_\_\_ Math \_\_\_\_\_

☐

ASVAB (minimum score of 31) AFQT score \_\_\_\_\_

☐

State and Industry Recognized Credential or Certification \_\_\_\_\_

☐

CTE Concentrator (Earn a "C" average in 2 courses within a CTE Pathway for Class of 2023 and beyond.)  
\_\_\_\_\_ (Pathway)

CTE1 Grade \_\_\_\_\_ CTE2 Grade \_\_\_\_\_ Average CTE Course GPA \_\_\_\_\_

☐

AP/Dual Credit (Earn "C" average in at least three courses - at least one in core)

AP/DC1 \_\_\_\_\_ AP/DC2 \_\_\_\_\_ AP/DC3 \_\_\_\_\_ AP/DC GPA \_\_\_\_\_ Core AP Course \_\_\_\_\_

Counselor Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Administrator Signature: \_\_\_\_\_ Date: \_\_\_\_\_

*Grad Pathway Checklist 1/10/19*



### **CLASS OF 2023 AND BEYOND**

Students in the Class of 2023 and beyond are required to complete the State of Indiana diploma requirements on page 3 AND the Graduation Pathway requirements on page 4. These Graduation Pathways replace the ISTEP 10+ assessment.

### **QUANTITATIVE REASONING COURSES**

In November 2011, the State Board of Education passed graduation requirements that affect incoming freshman beginning in 2012-2013, including requirements for quantitative reasoning (applied mathematics) courses.

- For the Core 40, Academic Honors (AHD), and Technical Honors (THD) diplomas, students must take a mathematics course or a quantitative reasoning (applied mathematics) course each year they are enrolled in high school. 511 IAC 6-7.1-6 (a) (4)
- For the General Diploma, students must earn two credits in a mathematics course or a quantitative reasoning (applied mathematics) course during their junior or senior year. 511 IAC 6-7.1-4 (c) (4)
- A quantitative reasoning (applied mathematics) course is a high school course that "advances a student's ability to apply mathematics in real world situations and contexts" and that "deepens a student's understanding of high school mathematics standards."
- The Indiana Department of Education will provide an annual review to determine the high school courses that meet these criteria.

#### **Business, Marketing, and Information Technology**

Advanced Accounting  
Computer Science I  
Computer Science II:  
Personal Financial Responsibility  
AP Computer Science A

#### **Engineering and Technology**

Civil Engineering and Architecture  
Engineering Design and Development  
Principles of Engineering

#### **Social Studies**

Economics (Class 2023 and 2024)  
AP Macroeconomics  
AP Microeconomics

#### **Science**

Chemistry I  
H Chemistry II  
Chemistry ACP  
Integrated Chemistry-Physics  
Physics I  
AP Physics 1: Algebra-Based  
AP Physics 2: Algebra-Based  
AP Biology  
AP Chemistry  
AP Environmental Science

#### **Trade and Industrial**

Advanced Manufacturing II  
Architectural Drafting and Design II  
Construction Trades II  
Precision Machining Fundamentals  
Advanced Precision Machining  
Precision Machining II

### **CLASS RANK AND GRADUATION HONORS**

On August 17, 2009, the Lake Central School Board adopted a policy to eliminate class rank from the high school transcript. Board Policy 007.22 took effect with the graduating class of 2012. There will no longer be a class valedictorian and salutatorian.

### **DISTINGUISHED HONORS AT GRADUATION**

Grade point average is based on a 4.0 scale. A weighted factor is used for Honors and Advanced Placement classes resulting in an individual's GPA exceeding a 4.0. Three distinct classifications will be recognized at graduation:

<b>Distinction</b>	<b>Translation</b>	<b>Accoutrements for Ceremony</b>	<b>Required GPA</b>
SUMMA CUM LAUDE	"With highest honor"	Hood	4.5 or higher
MAGNA CUM LAUDE	"With great honor"	Stole	4.2500-4.4999
CUM LAUDE	"With honor"	Cords	4.000-4.2499

To qualify for any of these distinctions, individuals will need a **minimum of 47 credits** at the end of the 8<sup>th</sup> semester. (Note: Senior Honors Night takes place prior to the completion of the 8<sup>th</sup> semester. As a result, students that have qualified for one of the distinctions by the end of the 7<sup>th</sup> semester are recognized at this event. **Every effort** will be made to recognize students that reach one of the distinctions at the end of the 8<sup>th</sup> semester – graduation program, commencement seating, etc., but due to time restraints, this cannot be guaranteed.)

### **EARLY GRADUATION**

Students who have completed all graduation requirements may graduate early. Students need to plan carefully when considering this option. This decision should include a detailed plan of completing all required courses (may include summer courses) and students should work closely with their Lake Central School Counselor as well as their prospective college admissions offices. In order to ensure all graduation requirements are met and afford the appropriate planning time, students should contact their assigned counselor a minimum of one year in advance. Those electing to graduate in January of their senior year should speak to their counselor no later than the end of first semester – junior year. **Students electing to graduate in three years should speak to their counselors no later than the end of second semester – sophomore year and complete the required 3 Year Graduation form.**

## BELL SCHEDULE

Blue and White days consist of four 90 minute blocks.. Students are able to take 7 courses in a semester plus an extra 90 minute period that meets on White Days called Pathways to Excellence (PtE). During the first 30 minutes of PtE, students will engage in a Social/Emotional Learning . 10<sup>th</sup>, 11<sup>th</sup>, and 12<sup>th</sup> grade students will have grade level specific seminars. The remaining 60 minutes is available for students to receive Academic Assistance.

### DAILY BELL SCHEDULE

Blue Day	White Day
1st Period 7:15 - 8:47 (92)	5th Period 7:15 - 8:47 (92)
2nd Period 8:53-10:25 (92)	6th Period Pathway to Excellence (PtE) 8:53-10:25 (92) 8:53-9:25 Advisory (SEL) 9:25-10:25 Academic Assistance
3rd Period 10:31-12:31 (120) A Lunch = 10:25-10:55 B Lunch = 10:57-11:27 C Lunch= 11:29-11:59 D Lunch= 12:01-12:31	7th Period 10:31-12:31 (120) A Lunch = 10:25-10:55 B Lunch = 10:57-11:27 C Lunch= 11:29-11:59 D Lunch= 12:01-12:31
4th Period 12:37-2:09 (92)	8th Period 12:37-2:09 (92)

### Pathways to Excellence (PtE) 8:53-10:25

Grade	Course	Credits	Description
9	Freshman PtE	0	Grade level specific activities: creation of 4 Year Plan, testing strategies, targeted instruction for improvement, development of career plans and pathways, interest inventories
10	Sophomore PtE	0	Grade level specific activities; revisit 4 Year Plan, testing strategies, targeted instruction for improvement, continued development of career plans and pathways, interest inventories.
11	Junior PtE	0	Grade level specific activities; revisit 4 Year Plan, ACT/SAT preparation, testing strategies, targeted instruction for improvement, continued development of career plans and pathways, interest inventories, leadership opportunities, college application process.
12	Senior PtE	0	The focus of this course is to prepare students for the transition from high school to post-secondary plans. Examples of the work that can be done in this course includes completing college applications, research trades and apprenticeships, write application essays, receive reminders about deadlines, and receive cap and gown information.

## GENERAL INFORMATION

All student records and personal information are private and confidential. Information will not be released to third parties without written consent of the parent or the student who is of legal age. No third party recipient of records shall release any part without written consent

### REPORT CARDS

Grade reports are finalized every 9-weeks. Students and parents can regularly check grades, receive e-mail alerts, and read class-related information through Skyward.

### GRADING STANDARDS

Percentage	Letter Grade	GPA Index	Weighted GPA Index
100% - 92.5%	A	4.00	5.0
92.49% - 89.5%	A-	3.67	4.67
89.49% - 86.5%	B+	3.33	4.33
86.49% - 82.5%	B	3.00	4.0
82.49% - 79.5%	B-	2.67	3.67
79.49% - 76.5%	C+	2.33	3.33
76.49% - 72.5%	C	2.00	3.0
72.49% - 69.5%	C-	1.67	2.67
69.49% - 66.5%	D+	1.33	1.33
66.49% - 62.5%	D	1.00	1.0
62.49% - 59.5%	D-	0.67	.67
59.49% - 0	F	0	0
Audit (no credit)	W/F, W, N	0	0

All accelerated classes, identified on page 12, reflect an additional 1.0 on the grade index. A grade of "D" in an accelerated class **will not** be awarded the additional 1.0 weighting. Honor roll is based on a 3.0 GPA. The requirement for high honor roll is a 3.67 GPA.

### GRADE REPLACEMENT POLICY

When a student retakes a course, only the higher grade is used to calculate in the student's grade point average and the lower grade will be treated as an audit. An audit grade appears on a transcript as an "N". **All courses will remain on the transcript. Grades transferred to Lake Central from other high schools are not replaceable.**

### OUTSIDE CREDIT

Diplomas issued by Lake Central High School will allow up to six (6) credits from outside accredited sources such as Indiana Online Academy or Brigham Young University. Students may take courses through outside accredited institutions any semester after freshman year and must be enrolled in a minimum number of pre-designated credit hours at Lake Central. Documented pre-approval from the LCHS counselor or assistant principal is required and will ensure the course credit will transfer to the Lake Central transcript without issue. Exceptions will be made for students with extenuating circumstances such as serious illness or those who transfer to Lake Central High School.



### **CREDIT RECOVERY**

Lake Central's Credit Recovery Program is meant to allow eligible junior and/or senior students to recover credits in core subjects during the school year and afford them the opportunity to get back on track with their classmates. This program is a privilege that will allow eligible students to complete courses at their own pace and place special emphasis on the necessary areas of remediation. Students will receive a grade no higher than a "C-" upon satisfactory completion of the pretest, learning modules for the unit, posttests and end of semester tests. Only the replacement grade will be calculated in the student's grade point average and the lower grade will be treated as an audit. An audit (no grade) appears on a transcript as an "N". All courses will remain on the transcript. **Credit recovery courses do not meet NCAA standards.**

If a student retakes a course in a regular Lake Central classroom setting or through Indiana Online Academy, there are no restrictions on the grade attainable. The higher grade will be calculated in the student's grade point average and the lower grade will be treated as an audit. An audit (no grade) appears on a transcript as an "N". All courses will remain on the transcript. **It is the responsibility of the student to notify their school counselor upon successful completion of a course.**

### **INDIANA DEPARTMENT OF EDUCATION DUAL CREDIT RULE (off-campus)**

Under certain circumstances, students may be released from their high school schedule to attend college classes and apply the credits earned toward high school graduation. Parents interested in pursuing this option for their child should contact their school counselor for specific information.

### **DUAL CREDIT (on-campus)**

Certain classes at LCHS have been identified as dual credit. Dual credit courses are authorized through an agreement with local colleges or universities. Students must meet all university requirements to be eligible for college credit. In some cases, students will be required to pay a fee to the university to receive the appropriate college credit. For more information, please contact the guidance department or check the LCHS dual credit website. Keep in mind that some courses are designated for dual credit **only** for juniors and seniors. Some colleges require a minimum GPA in order to enroll for dual credit, and some courses may require a placement test to be taken. Please check these requirements before signing up for dual credit. The agreements between Lake Central High School and the colleges, as well as the requirements and fees, are subject to change prior to the start of the courses. Students should be mindful of the college drop dates. A student may drop from dual credit and remain in the course.



LAKE CENTRAL HIGH SCHOOL Dual Credits

**Purdue University Northwest**

High School Course	HS CODE	College Course	Institution	Approx. Cost	No. of College Credit Hours	GPA/Requirements	Core Transfer Library
Composition	E1090D	ENG - 104	Purdue Northwest	\$25/cr hour	3	2.5	Yes
Speech Communication	E1078D	COM-114	Purdue Northwest	\$25/cr hour	3	2.5	Yes
United States History	H1542D	Hist - 151 & Hist-152	Purdue Northwest	\$25/cr hour	6	2.5	Yes
Trigonometry	M2566	MA 15400	Purdue Northwest	\$25/cr hour	3	2.5	Yes
Pre-calculus	M2564	MA 15300	Purdue Northwest	\$25/cr hour	3	2.5	Yes
Calculus	M2527D	MA 16300	Purdue Northwest	\$25/cr hour	5	2.5	Yes
Adv Math CC Calculus II	M2544D	MA 16400	Purdue Northwest	\$25/cr hour	5	2.5	Yes
Pre-calculus/Trigonometry, Honors	2564	MA 153 & MA 154	Purdue Northwest	\$25/cr hour	6	2.5	Yes
Statistics	2546	STAT 301	Purdue Northwest	\$105.10/cr hour	4	2.5, and PNW MA 153	
Microeconomics	1574	Econ 25100	Purdue Northwest	\$25/cr hour	3	2.5	

**Indiana University Bloomington**

High School Course	HS CODE	College Course	Institution	Approx. Cost	No. of College Credit Hours	GPA/Requirements	Core Transfer Library
Chemistry I Honors (ACP-Advanced College Project)	S30901	C-101/C-121	Indiana University Bloomington	\$25/cr hour	5	2.75	Yes
Anatomy & Physiology Honors (ACP - Advanced College Project)	S5276H	BIO PHSL130/N213	Indiana University Bloomington	\$25/cr hour	5	2.75	No
Comp Sci I (ACP- Advanced College Project)	B48010	CI02 and I101	Indiana University Bloomington	\$25/cr hour	7	2.75	

## Ivy Tech Community College

High School Course	HS CODE	College Course	Institution	Approx. Cost	No. of College Credit Hours	GPA/Requirements	Core Transfer Library
Business Law	B45600	BUSN-201	IVY Tech	free	3	None	No
Digital Applications and Responsibility I	B45280	CINS- 101	IVY Tech	free	3	None	No
Entrepreneurship and New Ventures Capstone	B59660	ENTR-101/105	IVY Tech	free	6	None	No
Principles of Business Management	B45620	BUSN-101	IVY Tech	free	3	None	Yes
Principles of Automotive Service	V72130	AUTI-100 &AUTI-111	IVY Tech	free	6	None	No
Automotive Technology	V55100	AUTI-111	IVY Tech	free	3	PREREQUISITE or COREQUISITIE: AUTC 100 Introduction to Automotive	No
Automotive Technology	V55100	AUTI-121	IVY Tech	free	3	PREREQUISITE or COREQUISITIE: AUTI 111, Electrical Systems I or AUTC 113 Electrical and Electronics I	No
Automotive Technology	V55100	AUTI-122	IVY Tech	free	3	PREREQUISITE or COREQUISITIE: AUTI 111, Electrical Systems I or AUTC 113 Electrical and Electronics I	No
Precision Machining I & II	V57820	MTTC-101	IVY Tech	free	3	None	No
Precision Machining I & II	V57820	MTTC-110	IVY Tech	free	3	None	No
Intro To Engineering PLTW	V48120	DESN-101	IVY Tech	free	3	None	No
Principles of Eng. PLTW	V48140	DESN-104	IVY Tech	free	3	PREREQUISITE: DESN 101	No
Civil Engineering Architecture PLTW	V48200	DESN-105	IVY Tech	free	3	PREREQUISITE: DESN 101 & DESN 104	No

## Vincennes University

High School Course	HS CODE	College Course	Institution	Approx. Cost	No. of College Credit Hours	GPA/Requirements	Core Transfer Library
Graphic Imaging Tech II	V55720	DESN 120/15)	Vincennes University	free	6	None	No

## HONORS AND ADVANCED PLACEMENT COURSES (AP)

In accordance with the purpose and philosophy of Lake Central High School, programs and courses are provided which meet the needs and individual differences of the intrinsically motivated student through honors courses and accelerated programs.

Classroom teachers will recommend students for enrollment in Honors and Advanced Placement classes based upon classroom performance and certain test scores. Several honors and Advanced Placement classes are available to all students who wish to pursue a more rigorous curriculum.

Level changes must be initiated by teachers no later than Tuesday, September 22, 2022 (6 weeks from the start of school). Teachers will track the student's progress and complete a Level Change Form to be reviewed by the student's team. This team includes the assistant principal, dean, school counselor, teacher, department head, and parent. Students dropping a class after the first six weeks will receive a W/F, may only drop to a study hall, and cannot have another study hall already in their schedule. Students performing below a weighted 3.0 for the semester should give serious consideration to transferring to a regular course second semester. Teachers are encouraged to and may recommend a student's transfer from a regular course to an honors course if class performance is exceptional.

The following accelerated classes are identified with Honors or AP and will reflect an additional 1.0 on the grade index. A grade of "D" in an accelerated class **will not** be awarded the additional 1.0 weighting.

### **Advanced Placement Courses (AP)**

#### **Art and Music**

AP 2-D Art and Design  
AP Music Theory

#### **Business**

AP Computer Science A  
AP Principles of Computer Science

#### **English**

English 11 AP Language and Composition  
English 12 AP Literature and Composition

#### **Math**

AP Statistics  
AP Calculus AB  
AP Calculus BC

#### **Science**

AP Biology  
AP Chemistry  
AP Environmental Science  
AP Physics 1  
AP Physics 2

#### **Social Studies**

AP U.S. Government & Politics  
AP Human Geography  
AP Microeconomics  
AP Macroeconomics  
AP Psychology  
AP US History

#### **Interdisciplinary**

AP Seminar  
AP Research

### **Honors Courses**

#### **English**

English 9 Honors  
English 10 Honors  
Student Media Honors  
Mass Media Honors

#### **Mathematics**

Algebra II Honors  
Geometry Honors  
Pre-Calculus/Trig Honors

#### **Science**

Anatomy & Physiology Honors (ACP)  
Biology Honors  
Chemistry Honors  
Chemistry Honors I (ACP)  
Chemistry Honors II

#### **World Languages**

French III Honors  
French IV Honors  
German III Honors  
German IV Honors  
Spanish III Honors  
Spanish IV Honors

## ADVANCED PLACEMENT (AP) 2021-2022 SCHOOL YEAR

Lake Central High School offers Advanced Placement (AP) classes in the areas of science, math, social studies, English, music and art. The course descriptions are listed in the department sections of this guide. These courses are designed to enable students to pursue college-level studies while in high school. The College Board prescribes the content of AP courses. **At the completion of an AP course, it is strongly recommended that students take the AP exam given nationally in May.** Students desiring to use an AP course to achieve an Academic Honors Diploma must take the AP exam. Universities can award college credit based on the results of these exams. There is a cost associated with the exam. Registration and payment will take place in August-October of 2022 for yearlong and first semester courses, and in February, 2023 for second semester courses. After the enrollment window, students can still register with a late fee. There is also a drop fee if the student no longer wishes to take the exam. In the 2022 school year, most exams cost \$96/exam with a \$10 Administration Fee. Students **enrolled** in math, science, English and interdisciplinary AP Courses received a waiver from the state for the exam fee. This is an Indiana Department of Education decision and subject to change.

## COURSE REQUESTS AND SCHEDULE CHANGES

**Designing your ideal schedule is an important decision.** The high school master schedule is **created**, the budget is **prepared**, and staff is hired based on student course **requests**. Lake Central High School students are expected to **invest quality time** planning their course requests. This **planning** should consist of **consultation** with parents, teachers, counselors, college advisors, and anyone who could provide **sound advice** while working toward the student's **long-term goals**. **As a result**, students are expected to remain on the schedule that is provided for them at the beginning of the school year and parents must approve all changes.

### Procedures for Schedule Changes:

During the scheduling process for the next year, requests for changes are subject to course availability and should be made with the student's school counselor by **Friday, March 11, 2022**. Any students requesting schedule changes **after March 11, 2022**, will need to complete a **Schedule Change Request** form. This **must be** turned into Guidance no later than **Friday, July 29, 2022 by 3:00pm**. This cannot be emailed or faxed. The **Schedule Change Committee will review requests from Monday, August 1 through Thursday, August 4th**. **Approved requests will be changed. Requests that are denied will be notified via email.**

Any students requesting schedule changes **after 3:00pm on Friday, July 29, 2022**, will need to complete a **Schedule Change Request** form and return it to Guidance **no later than Wednesday, August 17, 2022 by 2:15pm**. This must be physically dropped off to Guidance and cannot be emailed or faxed. These forms will be reviewed by a **Schedule Change Committee** and approved requests will be completed by **Friday, August 19, 2022**. Requests that are denied will be notified via email.

Students **who choose to drop a class after the first six weeks** will receive a **W/F** on their transcript, **may only drop to a study hall**, and **cannot have another study hall already in their schedule**. Students performing below a weighted 3.0 for the semester should give serious consideration to transferring to a regular course second semester. Teachers may also recommend a student's transfer from a regular course to an honors course if class performance is exceptional.

**Level changes** must be **initiated by teachers no later than Thursday, September 22 2022**. Teachers will track the student's progress and complete a Level Change Form to be reviewed by the student's academic team. This includes the assistant principal, school counselor, teacher, department head, and parent.

### A student's schedule may also be changed for the following reasons:

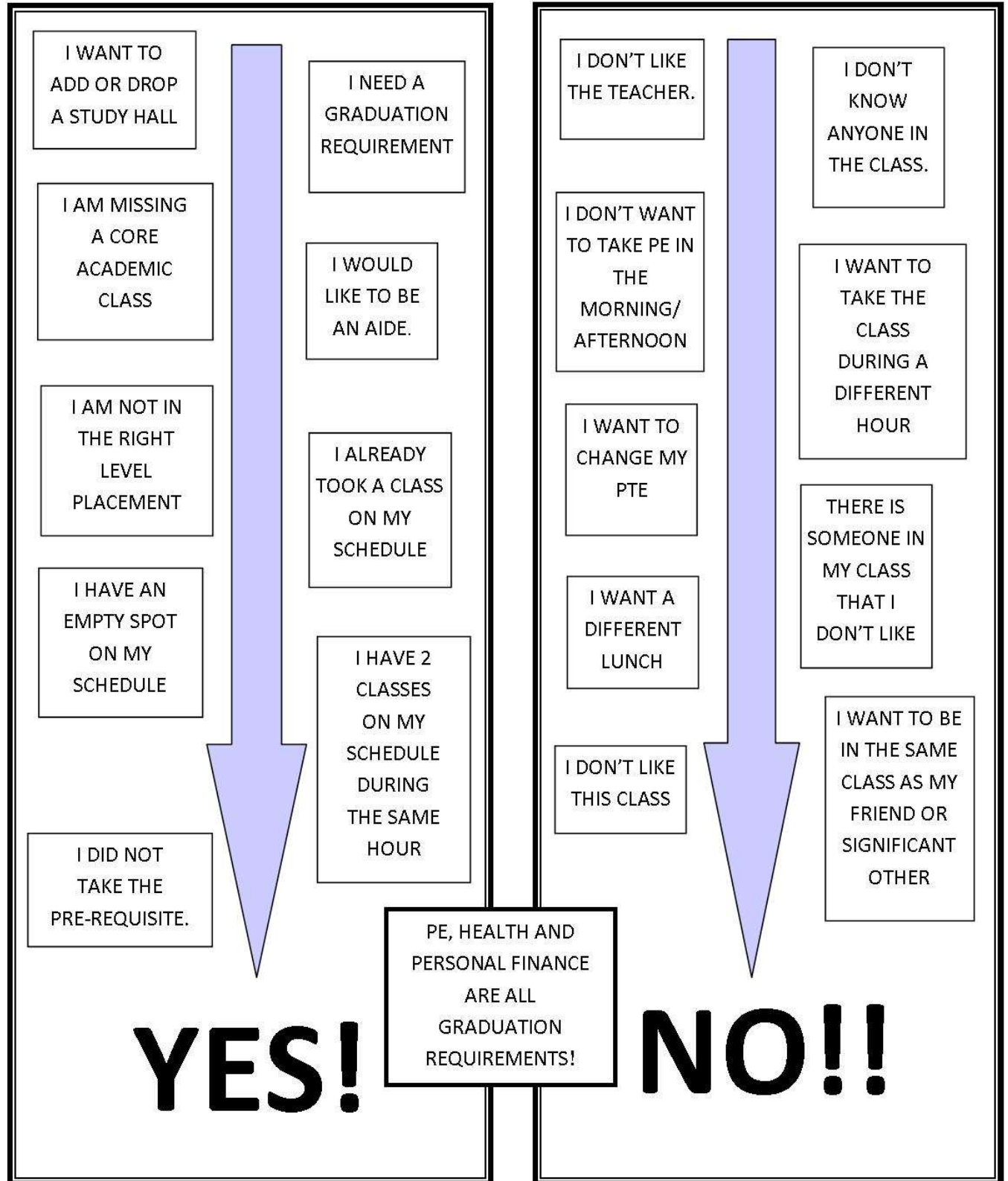
- A. Errors made by the school in developing the schedule
- B. The school's need to balance class sizes
- C. Medical reasons with documentation
- D. To correct inappropriate placement - student with a failure and needs to repeat a class or a student placed at an inappropriate level.
- E. To upgrade the content of the schedule - move to an advanced, Honors, or AP course, if available
- F. Scheduling conflicts

**ALL Schedule Change Request forms will be reviewed by the student's academic team to determine if a change is truly needed. ALL changes are contingent on the availability of the course requested. Requests for teacher changes will not be accommodated.** Students are permitted only **one study hall**.



# CAN I CHANGE MY SCHEDULE: 101

## A GUIDE FOR LC STUDENTS



## LAKE CENTRAL HIGH SCHOOL LIBRARY COMMONS

It is the purpose and the mission of the Lake Central Library Commons to empower students to become knowledgeable and critical consumers of information, in all of its varied formats. The Library Commons facility includes two computer labs, two small group project/study rooms, one large group project room and an art gallery showcasing Lake Central student art work. In addition, a student-run technology help desk is also housed on site. The library proper includes 45 student computer workstations and a print collection of over 12,000 volumes. Along with the print collection, numerous subscription databases, eBooks, and digital magazines are also available to students. Digital assets are accessible through the library's website at <http://library.lcsc.us/lake-central-high-school/>.

Students are expected to be courteous and to show respect for their fellow students, the library staff, the library facility and its furnishings, as well as the library materials. Water bottles are permitted in the library; other drinks and snacks are strictly prohibited.

### **Library Hours:** 6:50 AM – 2:50 PM

Students may visit the library before school and after school at their discretion. During the school day, students may visit the library with their classes or with a signed pass from the librarian. Students wishing to visit the library during lunch must obtain a signed pass from the librarian prior to their lunch time. Students are requested to sign in at the circulation desk upon arrival and sign out when leaving the library.

### **PtE:**

Students who wish to visit the library during PtE must request a pass from the librarian at any time before 7:15 AM of the day of the PtE. Only the librarian can issue library PtE passes and last minute requests will not be honored.

### **Study Hall:**

Students who wish to visit the library during study hall must obtain a signed pass from the librarian before 7:15 AM the day of their assigned study hall. There are a limited number of study hall passes available and students should plan ahead if their homework requires them to use the library's collection during their assigned study hall. Last minute pass requests will not be honored, and please understand that the librarian can only issue passes from **study hall** and not from academic classes.



# LAKE CENTRAL HIGH SCHOOL 2022-2023 COURSE SELECTION SHEET

For Incoming Freshmen Class of 2026

R= Required Course Q= Quantitative Reasoning Course D=Dual Credit \* Fine Art (s)=Semester Course

W=Word Based Learning S=Service Based Learning P= Project Based Learning ACP=Advanced College Placement

## Honors

### CORE COURSES

ENGLISH				Grade Level
English 9	R			9
English 9 with Lab				9
English 9 Honors				9
English as a New Language				9

MATHEMATICS				Grade Level
Algebra I	R			9
Algebra I with Lab				9
Geometry Honors				9 10
Algebra II Honors				9 10 11 12

SCIENCE				Grade Level
Biology	R			9
Biology Honors				9
Principles of Biomedical Science - PLTW	P			9 10 11 12

SOCIAL STUDIES				Grade Level
Geography and History of the World	R			9 10 11 12
AP Human Geography				9 10 11 12
Ethnic Studies (s)				9 10 11 12
Indiana Studies (s)				9 10 11 12

PHYSICAL EDUCATION				Grade Level
PE-Pool (s)	R			9
PE-Gym (s)	R			9

WORLD LANGUAGES				Grade Level
French I				9 10 11 12
German I				9 10 11 12
Spanish I				9 10 11 12

FAMILY & CONSUMER SCIENCE				Grade Level
Nutrition & Wellness I (s)	P			9 10 11 12
Adv. Nutrition & Wellness (s)	P			9 10 11 12
Adv. Nutrition & Wellness- Baking (s)	P			9 10 11 12
Housing & Interior Design Careers (s)	P			9 10 11 12
Adult Roles & Responsibilities(s)				9 10 11 12
Principles of Teaching				9 10 11 12
Principles of Culinary & Hospitality				9 10 11 12
Principles of Human Services				9 10 11 12

CAREER AND TECHNICAL EDUCATION				Grade Level
Intro to Engineering Design PLTW	D			9 10 11 12

## AP

ART				Grade Level
2D Art I* (s)				9 10 11 12
2D Art II* (s)				9 10 11 12
3D Art I*(s)				9 10 11 12
3D Art II*(s)				9 10 11 12
Ceramics I*(s)				9 10 11 12
Ceramics II*(s)				9 10 11 12

COMMUNICATIVE ART				Grade Level
Theatre Arts*	P			9 10 11 12
Theatre Production Management	W P			9 10 11 12
Journalism: Publication Design (s)				9 10 11 12
Journalism: Writing (s)				9 10 11 12
Journalism: Broadcast(s)				9 10 11 12
Photography* (s)				9 10 11 12

MUSIC				Grade Level
Junior Treble Choir*	P			9 10 11 12
Varsity Choir*	P			9 10 11 12
Symphonic Band*	P			9 10 11 12
Percussion Ensemble*	P			9 10 11 12
Jazz Ensemble*	P			9 10 11 12
Electronic Music*(s)				9 10 11 12
Music Theory* (s)				9 10 11 12
Music History/Appreciation*(s)				9 10 11 12
Hand Bells I*	P			9 10 11 12
Introduction to Guitar* (s)				9 10 11 12

BUSINESS				Grade Level
Principles of Business Management	P			9 10 11 12
Digital Apps and Responsibility I (s)	D			9 10 11 12
Digital Apps and Responsibility II (s)				9 10 11 12
Web Design (s)				9 10 11 12
Principles of Computing				9 10 11 12
Principles of Entrepreneurship (1/2)	D			9 10 11 12
New Ventures Development (2/2)	D			9 10 11 12

MISCELLANEOUS				Grade Level
Peer Mentoring	S			9 10 11 12
Study Hall (no credit)				9 10 11 12

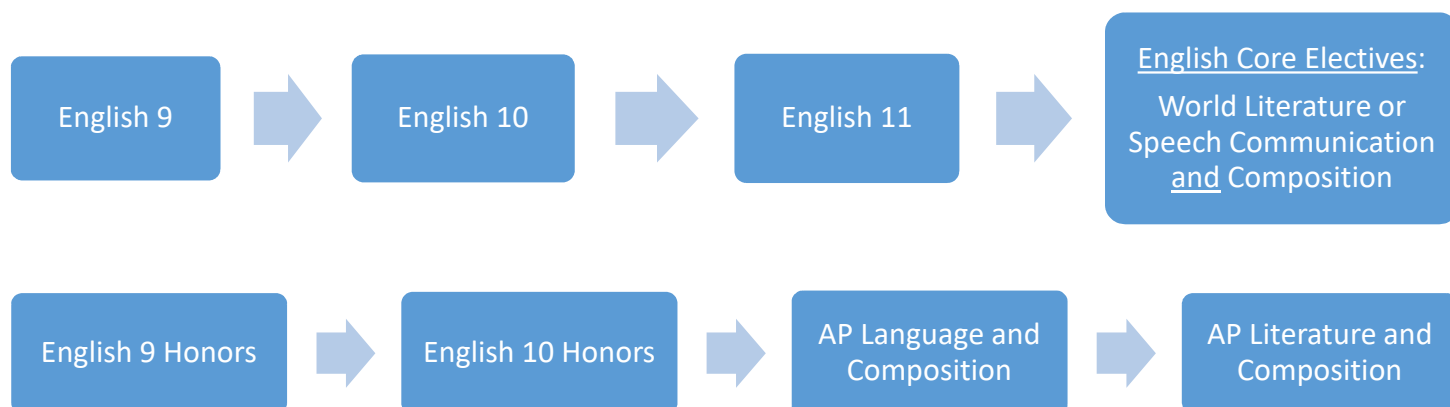
TECHNICAL EDUCATION				Grade Level
Principles of Digital Design 9				9 10 11 12
Principles of Precision Machining 9				9 10 11 12
Principles of Auto Service 9				9 10 11 12

# COURSE DESCRIPTIONS

Please keep in mind that these courses are subject to change based on funding, participation of students and teacher licensing.

## ENGLISH

### ENGLISH Course Sequencing



#### English 9 (E10020)

##### 2 semesters, 2 credits

Usage, composition, vocabulary and literature are integrated into a one-year college prep program. Usage focuses on the grammar and mechanics of writing. Composition involves the writing process. Various types of writing are taught. The literature component has textbook selections, as well as longer works. Vocabulary is taught both as part of the reading selections and as well as additional Latin roots. Students write and deliver grade-appropriate oral and multimedia presentations.

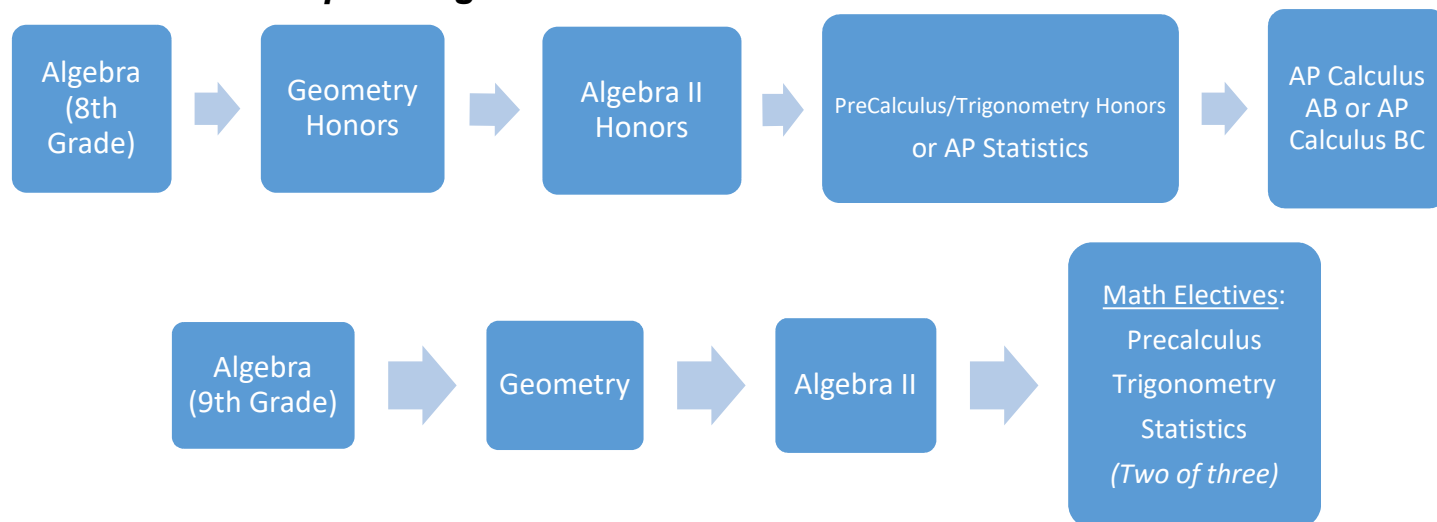
#### English 9 Honors (E1002H)

##### 2 semesters, 2 credits

English 9 Honors is an accelerated curriculum. It involves a more in-depth study of various units than the general curriculum. Grammar study focuses on the grammar and mechanics of writing. Composition involves the writing process. Various types of writing are taught. A genre approach is used for literature and longer works, as well as poetry, nonfiction, informational text and short stories, are read. Vocabulary is taught both as part of the reading selections and as a separate entity. Students write and deliver grade-appropriate oral and multimedia presentations. This course has required Summer Reading. Required book: *A Raisin in the Sun*, Lorraine Hansberry and choose ONE of the following books *The Memory Keeper's Daughter* by Kim Edwards, *Columbine* by Dave Cullen, *Where the Crawdads Sing* by Delia Owens, or *North of Happy* by Adi Alsaid.

## MATHEMATICS

### MATH Course Sequencing



#### **Algebra I (M25200)**

**2 semesters, 2 credits**

This class is the foundation course for the development of algebraic skills and concepts necessary to succeed in advanced courses. This course covers computing with real numbers, solving first and second degree equations, factoring, graphing, and solving systems of equations. This course provides for the use of algebraic skills in a wide range of problem solving situations

#### **Geometry (M25320)**

**2 semesters, 2 credits**

**Recommended: Algebra I**

Geometry should provide students with experiences that help them understand geometric shapes and their properties. Deductive and inductive reasoning, investigative strategies in drawing conclusions, and an understanding of proof and logic will be used. Properties and relationships of lines, angles, planes, congruent and similar triangles, trigonometric ratios, polygons, and circles will be explored.

#### **Geometry Honors (M2532H)**

**2 semesters, 2 credits**

**Recommended: Grade of A or B in Algebra I**

Geometry Honors will provide students with experiences that deepen the understanding of geometric shapes and their properties. Deductive and inductive reasoning as well as investigative strategies in drawing conclusions will be stressed. Properties and relationships of lines, angles, planes, congruent and similar triangles, trigonometric ratios, polygons, and circles will be explored. An in-depth understanding of proof and logic will be developed.

#### **Algebra II Honors (M2522H)**

**2 semesters, 2 credits**

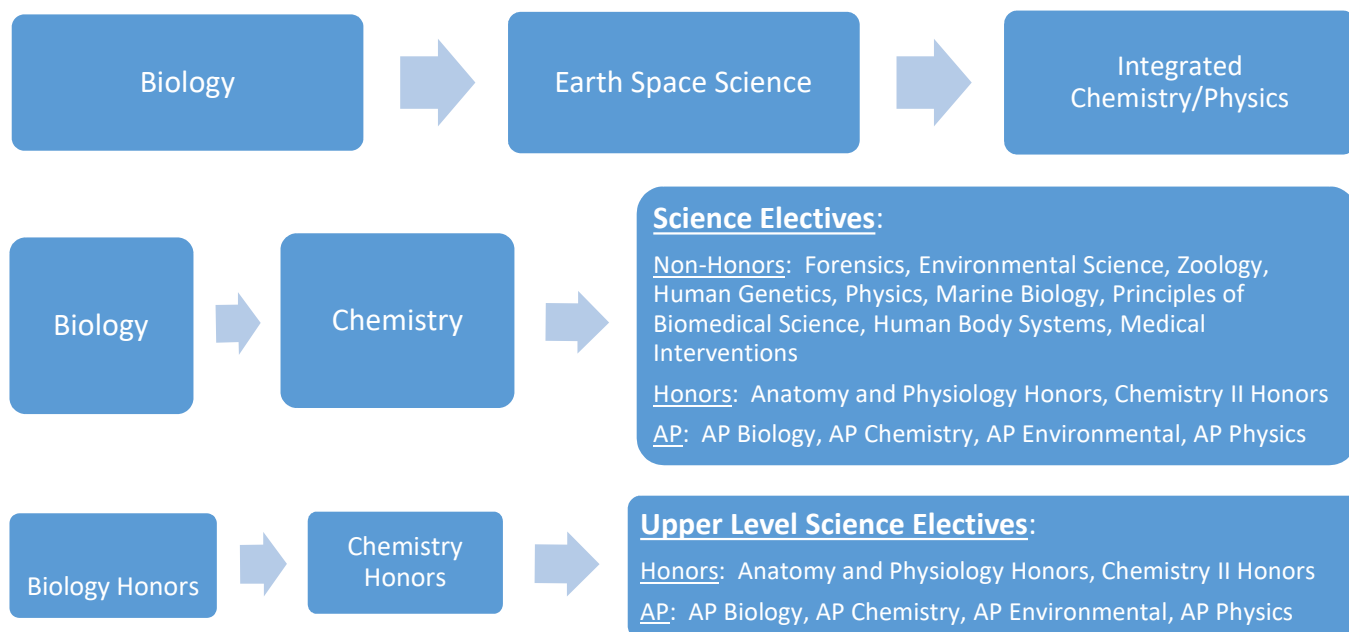
**Recommended: Geometry Honors or Geometry with teacher recommendation**

This course is for college-bound students who can learn at a faster pace. The course accomplishes the objectives of Algebra II and also includes the study of parabolas, greatest integer functions, absolute value functions, and polynomial functions. An introduction to determinants, logarithms and exponential functions, probability, permutations, combinations, and series and sequences is included. In certain situations, this course may be taken concurrently with Geometry Honors. Classroom TI83 graphing calculators are used.



## SCIENCE

### SCIENCE Course Sequencing



**ACP= Advanced College Project**

#### **Biology I (S30240)**

**2 semesters, 2 credits**

Biology I is a required Core 40 science course for all Indiana students. The course will explore topics in biochemistry (elements and compounds as they relate to living organisms), cell structure, developmental biology, organism structure and system regulation, genetics, ecology and evolution. Course activities include lecture, lab activities, video presentations, demonstrations and student projects. Students will be required to complete the Core 40 test as prescribed by the state of Indiana as part of the assessment activities.

#### **Biology I Honors (S3024H)**

**2 semesters, 2 credits**

**Recommended: Grade of A or B in Adv. Science 8**

Biology Honors functions as a Biology course in life sciences and is designed to help prepare students to take AP Biology. It is recommended for those who want a more challenging and in depth course than would be offered in Biology I. The course will explore topics in biochemistry (elements and compounds as they relate to living organisms), cell structure, developmental biology, organism structure and system regulation, genetics, ecology and evolution. In addition, there is an in-depth study of selected biological topics, with an emphasis on the molecular aspects of biology throughout the course. Course activities include lecture, inquiry-based lab activities, video presentations, demonstrations and student projects. Students will be required to complete the Core 40 test as prescribed by the state of Indiana as part of the assessment activities.

#### **Principles of Biomedical Science- PLTW (S52180)**

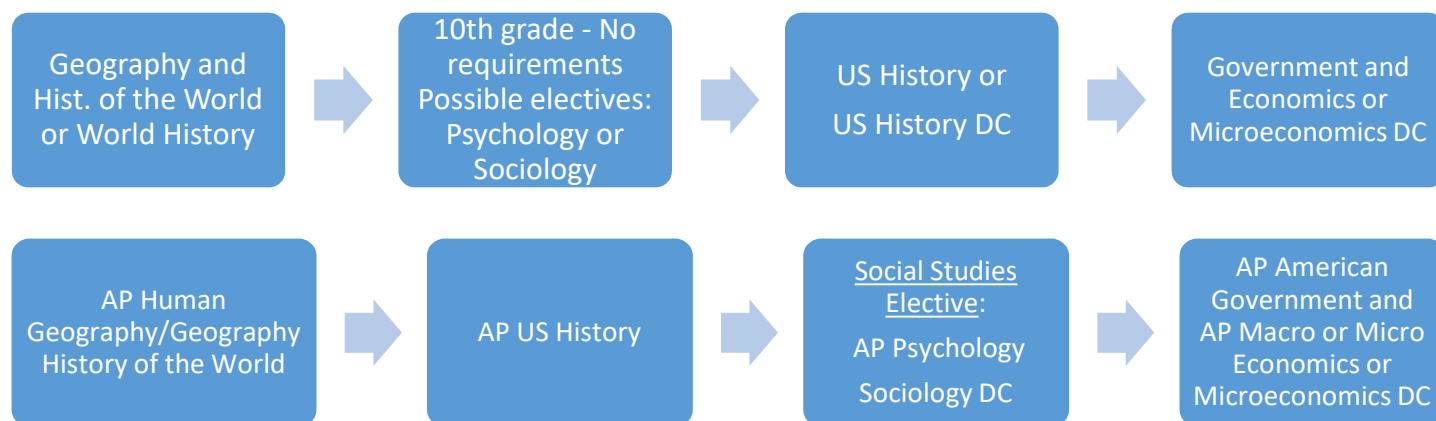
**2 semesters, 2 credits**

**Recommended: Biology I or Concurrent Enrollment**

PLTW 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. **This course is part of the Biomedical Sciences and Technology Pathway. This CTE course will require the student’s social security number.**

## SOCIAL STUDIES

### SOCIAL STUDIES Course Sequencing



#### Geography History of the World (H15700)

**2 semesters, 2 credits**

Geography and History of the World is designed to enable students to use the geographical view of looking at the world and to deepen their understanding of major global themes that have manifested themselves over time. Students will learn how geography shaped the history of the world by analyzing how human activities shaped the Earth's surface, gaining knowledge about the people and cultures of the world through a geographic and historical perspective and executing map skills.

#### AP Human Geography/Geography History of the World (H15720/H15700)

**2 semesters, 4 credits**

**Recommended: B in English**

Advanced Placement Human Geography/Geography & History of the World focuses on the distribution, processes, and effects of human populations on the planet. The course is designed to prepare students for the AP exam and thus focuses on developing their reading, writing, and critical thinking abilities at a college level. Students are expected to engage with this content through the broad themes of physical geography, population, migration, cultural patterns and processes, political geography, economic development, industry, agriculture, and urban geography. Throughout the course of the school year, students will also be covering topics at a basic geography level to expand their knowledge of AP Human Geography. Students taking this course will have the opportunity to earn 4 credits (2 credits for AP Human Geography and 2 for Geography/History of the World).

#### Ethnic Studies (H15160)

**1 semester, 1 credit**

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

#### Indiana Studies (H15180)

**1 semester, 1 credit**

Indiana Studies is an integrated course that compares and contrasts state and national developments in the areas of politics, economics, history, and culture. The course uses Indiana history as a basis for understanding current policies, practices, and state legislative procedures. It also includes the study of state and national constitutions from a historical perspective and as a current foundation of government. Examination of individual leaders and their role in a democratic society will be included and student will examine the participation of citizens in a political process. Selections from Indiana arts and literature may also be analyzed for insights into historical events and cultural expressions.

## WORLD LANGUAGES

### **Level 1 World Languages**

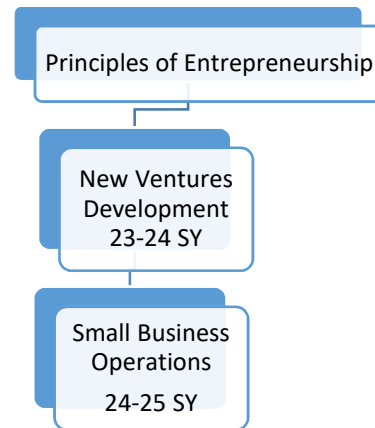
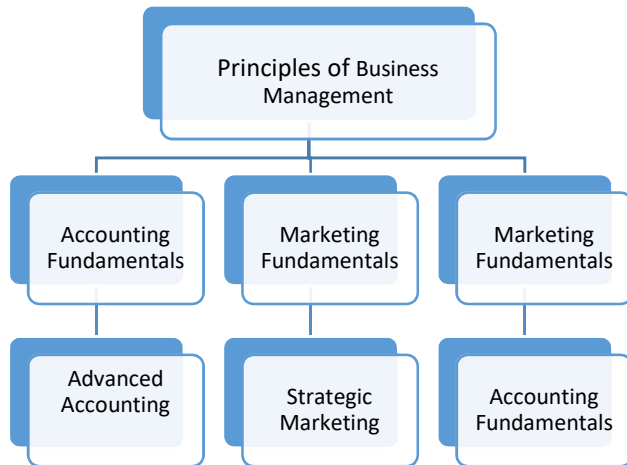
**French I (F20200), German I (F20400), Spanish I (F21200)**

**2 semesters, 2 credits**

**Recommended Prerequisite: C or better in previous English course**

Level 1 World Language courses are based on Indiana's Academic Standards for World Languages. They introduce students to effective strategies for beginning language learning and to various aspects of the target language culture. These courses encourage interpersonal communication through speaking and writing, and emphasize the development of reading and listening comprehension skills. Additionally, students will examine the practices, products, and perspectives of the target culture. These courses further emphasize making connections across content areas and the application of understanding the target language and culture outside of the classroom.

## BUSINESS



### Digital Applications and Responsibility (B45280)

1 semester, 1 credit

**Dual Credit: CINS 101 Ivy Tech**

This course is designed for secondary school students to develop real-life, outcome-driven approach skills for digital citizenship, basic computer operations, keyboarding, application software (word processing, spreadsheets, multimedia applications, databases), and career exploration. This course promotes skills that can be applied across the curriculum and offers preparation relevant to 21st century skills and postsecondary education. Students who successfully complete this course may be eligible for dual credit from Ivy Tech College. Student skills may be enhanced by participation in Digital Applications 2 or in the Business Professionals of America Club at Lake Central. **This is a CTE course, for funding and employment follow-up; the student's social security number will be needed.**

### Digital Applications and Responsibility II (B45282)

1 semester, 1 credit

**Recommended: Digital Applications I**

Expansion of MS Office Professional software training provides students with the knowledge and skills necessary for success in college and the business world. Integration of application software, group collaboration, decision-making and problem solving activities helps students gain confidence in using technology. The benefits of the skills learned are lifelong. **This is a CTE course, for funding and employment follow-up; the student's social security number will be needed.**

### Principles of Business Management (B45620) **\*\* New Course Description\*\***

2 semesters, 2 credits

**Dual Credit: BSN 102 Ivy Tech**

**Recommended: Digital Applications**

Principles of Business Management examines business ownership, organizational principles and problems, management, control facilities, administration, financial management, and development practices of business enterprises. This course will also emphasize the identification and practice of the appropriate use of technology to communicate and solve business problems and aid in decision-making. Attention will be given to developing business communication, problem-solving, and decision-making skills using spreadsheets, word processing, data management, and presentation software. **This is a CTE course, for funding and employment follow-up; the student's social security number will be needed.**

**Principles of Entrepreneurship (B71540) *\*\*New Course\*\******2 semesters, 2 credits****Dual Credit: Ivy Tech****Recommended: None****Taken concurrently with New Ventures Development**

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.

**This is a CTE course, for funding and employment follow-up; the student's social security number will be needed.**

**New Ventures Development (B71480) *\*\*New Course\*\******2 semesters, 2 credits****Dual Credit: Ivy Tech****Taken concurrently with Principles of Entrepreneurship**

New Venture Development is targeted to students interested in creating and growing their own businesses. The course will focus on key marketing strategies particularly relevant for new ventures. Students will apply marketing concepts to entrepreneurial company challenges, which include creating and nurturing relationships with new customers, suppliers, distributors, employees and investors; and understand the special challenges and opportunities involved in developing marketing strategies "from the ground up." **This is a CTE course, for funding and employment follow-up; the student's social security number will be needed.**

**Web Design (B45740)****1 semester, 1 credit**

This course is an introduction to web development with HTML and CSS. In this course, students will learn about key technologies and standards behind the internet and world wide web. Students will develop website projects that meet current web standards and industry best practices using modern tools and techniques. Students will learn to code Websites which include tables, links, graphics, Web forms, visual effects, animation, video and audio. The focus of this course is on the use of basic HTML and CSS as a technical foundation for later coursework in computer science. .” **This is a CTE course, for funding and employment follow-up; the student's social security number will be needed.**

**Principles of Computing (B71830) – *\*\*New Course\*\******2 semester, 2 credit****Recommended: None**

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 will include operating systems, database technology, cybersecurity, cloud implementation 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.



## FINE ARTS

### Fine Arts CORE 40 Credit Options

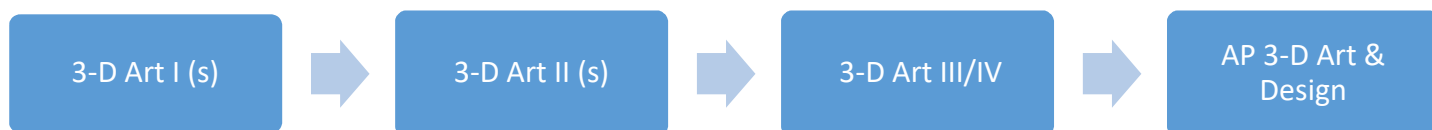
Any course from the following list will satisfy the Fine Arts Course requirement for the Core 40 Diploma.

2-D or 3D Art I(s) 2-D or 3D Art II 2-D or 3D Art III/IV Ceramics I(s) Ceramics II(s) Ceramics III/IV AP 2-D Art and Design AP 3-D Art and Design Student Media	Student Media Honors Theatre Arts Theatre Arts II Theatre Production Mgmt. Photography Housing & Interior Design Junior Treble Choir Senior Treble Choir Varsity Choir	Concert Choir Beginning Concert Band Symphonic Band Concert Band Advanced Concert Band Wind Ensemble Instrumental Ensemble I Instrumental Ensemble II Jazz I	Jazz II Electronic Music Music Theory AP Music Theory Music History/Appreciation Hand Bells I Hand Bells II Introduction to Guitar
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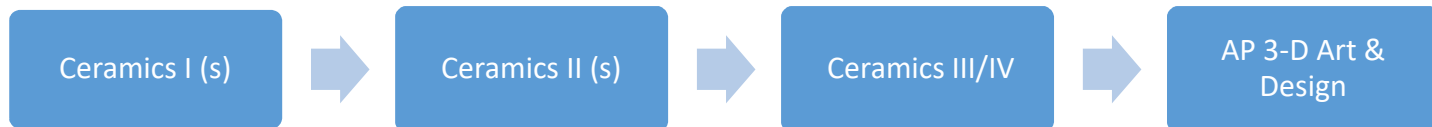
### TWO-DIMENSIONAL AP Course Sequencing



### THREE-DIMENSIONAL AP Course Sequencing



### CERAMICS (3-D) AP Course Sequencing



(s)= Semester Course

#### 2-D Art I (A40000)

**1 semester, 1 credit**

Art I emphasizes drawing, color theory, and the principles and elements of art. Areas covered are: drawing, painting, printmaking, design, art appreciation, art history, careers, and current trends in art. Students will examine the significance and meaning of their own art, as well as the art done by famous artists. Students will also be taught to think, act and create like an artist. Counts as a Fine Art credit for the AHD.

#### 2-D Art II (A40042)

**1 semester, 1 credit**

**Recommended: 2-D Art I**

Students in 2-D Art II build on the sequential learning experiences of 2-D Art I. Areas covered will be based upon student choice as they relate to specific learning targets in fine arts. Students will continue to be introduced to new mediums and concepts but will choose and create based upon the things that interest them. Students will examine the significance and meaning of their own art, as well as the art done by famous artists and current trends in art. Students will engage in learning experiences that explore art history, art criticism, and studio production, as well as art appreciation, art history, and careers. Students will also be taught to think, act and create like an artist. Counts as a Fine Art credit for the AHD.

**3-D Art I (A40020)****1 semester, 1 credit**

Students taking 3-D Art I engage in learning experiences that encompass the study of historical and current trends in art. This information can then be incorporated into their own art. Students will learn how to use a variety of tools and materials to create their personal projects, which include working in the following mediums: sand, clay, wood, fiber, plaster, plastic, wire, glass, glass-fusing, glass slumping, and jewelry making. Counts as a Fine Art credit for the AHD.

**3-D Art II (A40060)****1 semester, 1 credit****Recommended: 3-D Art I**

Students taking 3-D Art II build on the sequential learning from 3-D Art I while further enhancing their artistic creativity in more technical design ideas and projects. Further study in art history, art theory, and art criticism are incorporated into the curriculum. Counts as a Fine Arts credit for the AHD.

**Ceramics I (A40401)****1 semester, 1 credit**

This course is an introduction to clay and its properties. Students learn the fundamentals of pinch, coil, and soft slab hand building techniques. Emphasis will be placed on proper construction, surface design, and glaze options. Students will evaluate and self-critique their own work. Counts as a Fine Arts credit for the AHD.

**Ceramics II (A40402)****1 semester, 1 credit****Recommended: Ceramics I**

This course further explores hand building with an introduction to sculpture, stiff slab and advanced decorating techniques. Students will also learn the fundamentals of wheel throwing with stress on proper technique and skill for success. Emphasis is placed on design aesthetics, more advanced glazing and staining techniques, visual problem solving, art criticism and self-critique. Counts as a Fine Art credit for the AHD.

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## COMMUNICATIVE ARTS

### **Theatre Arts (J42420)**

#### **2 semesters, 2 credits – Project Based Learning Course**

Theatre Arts I is a year-long course for freshmen, sophomores, juniors and seniors. Theater Arts I introduces students to the basics of theater. Students do various activities and exercises that introduce and familiarize them with all aspects of theater. Using the knowledge gained through the study of theatre, students focus on solving problems faced by actors, directors, and technicians. They also refine their abilities to collaborate on performances, and they learn to constructively evaluate their own and others' efforts. Counts as a Fine Art credit for the AHD.

### **Theatre Production Management (J42480)**

#### **2 semesters, 2 credits – Work and Project Based Learning Course**

Students enrolled in Theatre Production Management take on the responsibilities associated with the technical rehearsal and presentation of a theater production. Students learn sound, lighting, and rigging equipment; safety and security of the facility; front of house duties; and back of house duties. Students will perform roles in a production such as lighting, spotlight, soundboard, costumes, props, and curtain for Advanced Theatre class productions. In addition, students will be staff for the auditorium director on productions and events. Therefore, some out of class auditorium events will be required to work in exchange for pay. Counts as a Fine Art credit for the AHD.

### **Journalism: Publication Design (J1080P)**

#### **1 semester, 1 credit**

This course will look at fundamental concepts of publication design. Students will learn to communicate visual messages clearly in various media. Basic grid design, typography, color theory and effective use of photography will be discussed. Students will use the Adobe Creative Suite to create magazine spreads, advertisements, news sites and other visual presentations.

### **Journalism: Writing (J1080W)**

#### **1 semester, 1 credit**

This course will concentrate on the history of journalism, the basics of news elements, newswriting, journalism law and ethics. Students will learn the importance of the media in our society and the First Amendment, as well as knowing their limits to those rights. Students will also master the basic fundamentals of news writing, feature story and opinion writing.

### **Journalism: Broadcast (J1080B)**

#### **1 semester, 1 credit**

#### **Memory Card 32 or Higher SD card required for this course.**

This course will look at fundamental concepts of broadcast media. Students will learn to communicate visual messages clearly in various media formats. This course will help students form skills necessary to create segments and run a news broadcast and it will cover topics such as journalistic laws and ethics, interviewing, broadcast writing, videography, photography and familiarity with U.S. and world news. Students will also become familiar with editing software to create creative videos.

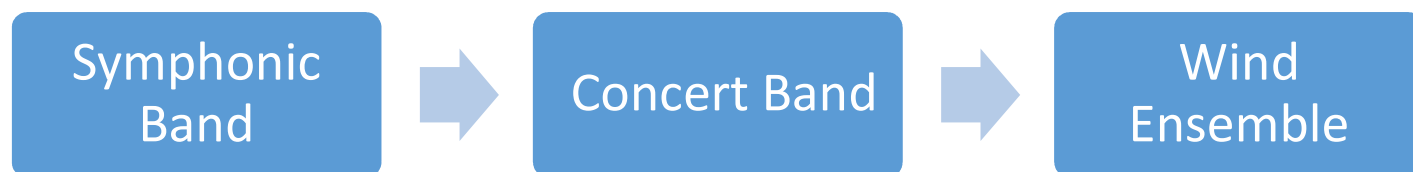
### **Photography (J40620)**

#### **1 semester, 1 credit-**

#### **Recommended: Must own a digital camera and memory card**

Digital Photography is an introductory course of photojournalism, specifically the type of photography that meets the requirements for publication. People, still life, action, portraits, photo stories as well as digital technology will be discussed and put into practice. Students will be responsible for their own transportation when shooting assignments and also for the purchase of supplies for personal use. Counts as a Fine Art credit for the AHD.

## MUSIC (FINE ARTS)



### **Symphonic Band (Marching U41600) (Non-Marching U4160N)**

**2 semesters, 2 credits Grade: 9 Project Based Learning Course**

**Recommended: Complete formal instruction at the middle school level.**

This concert band class is open to all students who play a band instrument at an intermediate level. This is a co-curricular course that involves participation during school and outside school. Emphasis is placed on tone, technique development and sight reading. Participation in the ISSMA Solo/Ensemble contest is encouraged. The band performs several times during the year. Private lessons are highly encouraged. Counts as a Fine Art credit for the AHD.

### **Jazz Ensemble (U41640)**

**Project Based Learning Course**

**2 semesters, 2 credits Grades: 9-12**

This is a co-curricular course that involves participation during school and outside school. Emphasis is placed on tone and technique development and sight-reading skills. Jazz theory and improvisation are included in the course of study. The group performs several times each year. Open to any current band student or former band student. Exceptions would be made for guitarists, bassists or piano players with director approval. Counts as a Fine Art credit for the AHD.

### **Percussion Ensemble (Marching U42001) (Non-Marching U4200N)**

**2 semesters, 2 credits Grades: 9-12**

This course is co-curricular and involves participation during school, after school, and on weekends. Percussion Ensemble performs music that is graded medium to advanced. All rehearsals, commencement and concerts are required. Students in this class will perform with multiple groups including Beginning Band, Concert Band, Wind Ensemble, and the Lake Central Marching Band. Students are encouraged but not required to take private instrumental lessons, participate in ISSMA solo and ensemble contests, and participate in auditions for All-State Ensembles.

### **Electronic Music/Music Production (U42020)**

**1 semester, 1 credit Grades: 9-12**

**Recommended: Some note reading ability**

Students taking this course are provided with a wide variety of activities and experiences to develop skills in the use of electronic media and to incorporate current technology. Instruction is separated into two forms of writing music; composition and music engineering. Students will learn the basic music reading skills while composing their own various music types within a music notation software. Students will create music within an audio workstation and it is automatically entered into the computer where students can manipulate sound and/or create their own compositions. This class may be taken more than once. Counts as a Fine Art credit for the AHD.

### **Music Theory I (U42080)**

**1 semester, 1 credit Grades: 9 -12**

This semester class is open to any student in the high school wanting to expand their knowledge of music construction and composition. The materials covered will consist of the following: knowledge of the names of the notes, identification of notes to a piano keyboard, all major and minor key signatures and scales, time signatures, note values, intervals, and understanding of rhythmic figures, aural association to pitch, and the ability to identify the construction of music. Counts as a Fine Art credit for the AHD.

### **Music History/Appreciation (U42060)**

**1 semester, 1 credit**

Students taking this course will receive instruction designed to explore music and major musical style periods through understanding music in relation to both Western and non-Western history and culture. Activities include, but are not limited to, 1) listening to, analyzing, and describing music, 2) evaluating music and music performances, and 3) understanding relationships between music and the other arts as well as disciplines outside of the arts. Counts as a Fine Art credit for the AHD.

**Hand Bells I: Instrumental Ensemble (U41624)****2 semesters, 2 credits Project Based Learning Course****Recommended: Some note reading ability**

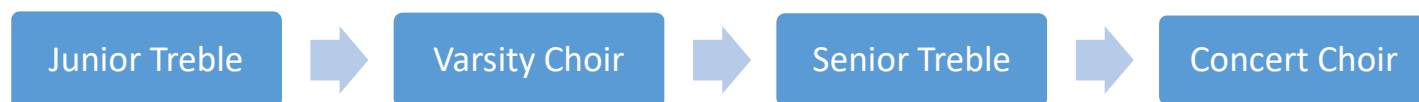
Students will study music reading, bell literature, and techniques. Members must attend all choir concerts. Counts as a Fine Art credit for the AHD.

**Hand Bells II: Instrumental Ensemble (U41625)****2 semesters, 2 credits Project Based Learning Course****Recommended: Selection by Director**

Intermediate skill level is required to participate in this class. Members must attend all concerts. Music reading is required. Counts as a Fine Art credit for the AHD.

**Introduction to Guitar (U42000)****1 semester, 1 credit Grades: 9-12**

This course will introduce students to playing the guitar. The class will stress technique, music theory in regard to note and tablature reading, critical listening skills, improvisation, and performance of beginning guitar literature. Instruments are provided and no prior musical experience is necessary. Counts as a Fine Art credit for the AHD.

**CHOIR (FINE ARTS)****Junior Treble: Beginning Chorus (U41820)****2 semesters, 2 credits Project Based Learning Course**

Beginning treble choral ensemble. Focus will be on learning the fundamentals of singing and reading music. Sopranos and altos entering choir for the first time should be placed here (unless the director has emailed their guidance counselor saying differently). Counts as a Fine Art credit for the AHD.

**Varsity Choir: Intermediate Chorus (U41860)****2 semesters, 2 credits Project Based Learning Course**

Beginning mixed choral ensemble. Focus will be on learning the fundamentals of singing and reading music. Basses and tenors entering choir for the first time should be placed here (unless the director has emailed their guidance counselor saying differently). Counts as a Fine Art credit for the AHD.



## **FAMILY AND CONSUMER SCIENCES (FACS)**

**Many courses in Family and Consumer Sciences are Career-Technical Education (CTE) courses and will require a student's social security number be provided.**

### **Adult Roles & Responsibilities (C53300)**

**1 semester, 1 Credit**

*Adult Roles and Responsibilities* is recommended for all students as life foundations and academic enrichment, and as a career sequence course for students with interest in family and community services, personal and family finance, and similar areas. This course builds knowledge, skills, attitudes, and behaviors that students will need as they complete high school and prepare to take the next steps toward adulthood in today's society. The course includes the study of interpersonal standards, lifespan roles and responsibilities, individual and family resource management, and financial responsibility and resources. A project-based approach that utilizes higher order thinking, communication, leadership, management processes, and fundamentals to college and career success is recommended in order to integrate these topics into the study of adult roles and responsibilities. This course provides the foundation for continuing and post-secondary education in all career areas related to individual and family life.

### **Nutrition & Wellness (C53421)**

**1 semester, 1 credit Project Based Learning Course**

This course is an introductory course valuable for all students as a life foundation and academic enrichment; it is especially relevant for students interested in careers related to nutrition, food, and wellness. This is a nutrition class that introduces students to only the basics of food preparation so they can become self-sufficient in accessing healthy and nutritious foods. Major course topics include nutrition principles and applications; influences on nutrition and wellness; food preparation, safety, and sanitation; and science, technology, and careers in nutrition and wellness. A project-based approach that utilizes higher order thinking, communication, leadership, management processes, and fundamentals to college and career success is recommended in order to integrate these topics into the study of nutrition, food, and wellness. Food preparation experiences are a required component. **Student's social security number is required to receive CTE funding for this class.**

### **Advanced Nutrition & Wellness (C53400)**

**1 semester, 1 credit Project Based Learning Course**

**Recommended: Nutrition & Wellness**

This is a course which provides an extensive study of nutrition. This course is recommended for all students wanting to improve their nutrition and learn how nutrition affects the body across the lifespan. This course builds on the foundation established in Nutrition and Wellness, which is a recommended prerequisite. This is a project-based course; utilizing higher-order thinking, communication, leadership and management processes. Topics include extensive study of major nutrients, nutritional standards across the lifespan, influences on nutrition/food choices, technological and scientific influences, and career exploration in this field. Food preparation experiences are a required component, along with recipe education and journal entries related to nutrition and food preparation. **Student's social security number is required to receive CTE funding for this class.**

### **Advanced Nutrition & Wellness- Baking (C53401)**

**1 semester, 1 credit Project Based Learning Course**

**Recommended: Nutrition & Wellness**

This is a course which provides an extensive study of nutrition. Major topics for this advanced course include: basic baking theory and skills, introduction to breads, introduction to pastry arts, nutrition, nutrition accommodations and adaptations, cost control and purchasing, and current marketing and trends. This course builds on the foundation established in Nutrition and Wellness, which is a recommended prerequisite. This is a project-based course utilizing higher-order thinking, communication, leadership and management processes. Additional topics include extensive study of major nutrients, nutritional standards across the lifespan, and influences on nutrition/food choices, technological and scientific influences and career exploration in this field. Food preparation experiences are a required component, along with recipe education and journal entries related to nutrition and food preparation. Student's social security number is required to receive CTE funding for this class.

**Housing and Interior Design (C53500)****1 semester, 1 credit \*Fine Art Credit-****Project Based Learning Course**

This course will emphasize the application of art principles in planning and designing aesthetically pleasing living environments for individuals and families. Students will learn to identify architecture styles, decorating periods, and color schemes. Other topics that may be addressed are the elements and principles of design as they apply to interior decorating and furnishing an apartment. Student's social security number is required to receive vocational funding for this class. Counts as a Fine Art credit for the AHD. **Student's social security number is required to receive CTE funding for this class.**

**Principles of Teaching (C7160) \*\*New Course\*\*****2 semesters, 2 credits****Required Prerequisites: None**

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 classroom observation experience is required for successful completion of this course. Counts as a directed elective or elective for all diplomas

**Principles of Culinary & Hospitality (C71730) \*\*New Course\*\*****2 semesters, 2 Credits**

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. **This course is part of the Culinary Arts Pathway.**

**Principles of Human Services (C71760) \*\*New Course\*\*****2 semesters, 2 credits****Prerequisites: None**

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. 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. Counts as a directed elective or elective for all diplomas

## PHYSICAL EDUCATION

### PE- Gym and PE-Pool (P35440/P35420)

2 semesters, 2 credits

#### GRADUATION REQUIREMENT

Emphasis is on health-related fitness and on developing the skills and habits necessary for a lifetime of activity. This program includes skill development and the application of rules and strategies of complex difficulty in at least three of the following different movement forms: health-related fitness activities (cardio respiratory endurance, muscular strength and endurance, flexibility, and body composition), aerobic exercise, team sports, individual and dual sports, gymnastics, outdoor pursuits, self-defense, aquatics, dance, and recreational games. Ongoing assessment includes both written and performance-based skill evaluations.

### Alternate PE (P35441 or P35442)

1 Semester, 1 Credit

The Indiana State Board of Education has granted local school districts the flexibility to award physical education credit through alternate means. Lake Central High School is offering alternative PE/Pool credits. Students who demonstrate mastery of state Academic Standards for PE through a LCHS sponsored qualifying activity may be able to earn a PE credit (see the complete list below).

**Physical education credit earned by participation on an athletic team, may not count toward academic eligibility.**

**Qualifying Activities** - Qualifying activities are only those that are sponsored and run by Lake Central High School and are listed below.

<i>Baseball S2</i>	<i>Dance S2</i>	<i>Soccer S1</i>	<i>Volleyball S1</i>
<i>Basketball S2</i>	<i>Football S1</i>	<i>Softball S2</i>	<i>Winter Guard S2</i>
<i>Cheerleading S2</i>	<i>Golf GS1, BS2</i>	<i>Swimming S2</i>	<i>Wrestling S2</i>
<i>Color Guard S1</i>	<i>Gymnastics S2</i>	<i>Tennis BS1 GS2</i>	<i>Unified Track S2</i>
<i>Cross Country S1</i>	<i>Marching Band S1</i>	<i>Track &amp; Field S2</i>	

*S1= Semester 1, S2= Semester 2, B=Boys, G=Girls*

#### Criteria

Students participating in a qualifying activity must participate fully for the entire season as outlined by the governing body (ISSMA or IHSA). If a student is injured, they may still be able to receive credit as long as the student continues to attend and participate, as they are able. Rehabilitation efforts allow students to remain eligible in good standing.

Students planning to participate in a fall qualifying activity would request ALT PE S1 for the fall. If the student plans to participate in a spring qualifying activity, they would request ALT PE S2 for the spring. Coaches, directors, and sponsors will award credit based on the following criteria:

1. **Attendance**
2. **Citizenship**
3. **Ability**

## CAREER AND TECHNICAL EDUCATION

The State of Indiana has implemented Next Level of Program Study for many Consumer and Technical Education Pathways. All of these courses will require the student's social security number.

### Digital Design (Graphics)

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These are all CTE courses, for funding and employment follow-up; the student's social security number will be needed.

#### **Principles of Digital Design 9 (V71409)**

##### **2 semesters, 2 credits**

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.

### Precision Machine

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These are all CTE courses, for funding and employment follow-up; the student's social security number will be needed.

#### **Principles of Precision Machining 9 (V71099)**

##### **2 semesters, 6 credits Project Based Learning Course**

##### **Quantitative Reasoning Course**

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 of Metalworking Skills (NIMS) Measurement, Materials & Safety certification that may be required for dual credit. .

### Automotive

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This is a CTE course, for funding and employment follow-up; the student's social security number will be needed.

#### **Principles of Automotive Services 9 (V72139) 9<sup>th</sup> grade**

##### **2 semesters, 2 credits Project Based Learning**

This course gives students an overview of the operating and general maintenance systems of the modern automobile. Students will be introduced to the safety and operation of equipment and tools used in the automotive industry. Students will study the maintenance and light repair of automotive systems. Also, this course gives students an overview of the electrical operating systems of the modern automobile. Students will be introduced to the safety and operation of equipment and tools used in the electrical diagnosis and repair in the automotive electrical industry. Students will study the fundamentals of electricity and automotive electronics. .

# Engineering

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Students taking these three courses will qualify for the Engineering Pathway. These courses can be taken sequentially.

## **Introduction to Engineering Design: Project Lead the Way (V48020)**

### **2 semesters, 2 credits**

Introduction to Engineering Design (IED) is a high school level course that is appropriate for 9th or 10th grade students who are interested in design and engineering or another technical career. The major focus of the IED course is to expose students to a design process, professional communication and collaboration methods, design ethics, and technical documentation. IED gives students the opportunity to develop skills in research and analysis. Teamwork, technical writing, engineering graphics, and problem solving through activity-, project-, and problem-based (APPB) learning are emphasized. Used in combination with a teaming approach, APPB-learning challenges students to continually hone their interpersonal skills and creative abilities while applying math, science, and technology knowledge learned in other courses to solve engineering design problems and communicate their solutions. IED also allows students to develop strategies to enable and direct their own learning, an ultimate goal of education. No previous knowledge is assumed, but students should be concurrently enrolled in college preparatory mathematics and science courses in order to facilitate the use and understanding of appropriate math and science concepts necessary for the successful completion of IED coursework. In addition, students will use industry standard 3D solid modeling software to facilitate the design and documentation of their solutions to design problems and challenges. As the course progresses and the complexity of the design problems increase students will learn more advanced computer modeling skills as they become more independent in their learning, more professional in their collaboration and communication, and more experienced in problem solving. **This is a CTE course, for funding and employment follow-up; the student's social security number will be needed.**

## MISCELLANEOUS

### **Peer Mentoring (0502PM)**

#### **1 semester, 1 credit Service Based Learning Course**

Students serve as peer mentors by assisting in a special needs classroom during a class period. Students assist in instruction of students with various types of disabilities, explore various career options working with people with disabilities, and promote inclusion of individuals with disabilities in the school community.

#### **Qualifications**

Peer Mentors are expected to:

- show classroom students and staff respect at all times;
- attend class and have good , consistent attendance in all classes;
- maintain passing grades in all classes;
- be honest;
- show initiative;
- work independently in all areas;
- demonstrate appropriate social and behavior skills in all areas; and
- participate in activities and ask when unsure what to do.

### **Study Hall (10010)**

#### **2 semesters, 0 credits**

Students may choose to take a study hall if they have completed all necessary coursework and are on track with their credits. This study hall should be used to work on homework or to study for tests/quizzes. Students receive no credit for taking a study hall.

## Pathways LCHS

To be a concentrator and earn a Pathway, students must take all three courses in Concentrator A. Concentrator A must be complete before students can take the Concentrator B course.

### **Cluster: Advanced Manufacturing**

#### **Career Pathway: Precision Machining – Lake Central High School**

Concentrator A:

Course Number	Course Name
V71090	Principles of Precision Machining
V71050	Precision Machining Fundamentals
V71070	Advanced Precision Machining

Concentrator B::V01330 Precision Machining Capstone

### **Cluster: Arts, AV Tech and Communication**

#### **Career Pathway: Digital Design – Lake Central High School**

Concentrator A:

Course Number	Course Name
V71400	Principles of Digital Design
V71410	Digital Design Graphics
V55500	Graphic Design and Layout-

Concentrator B: V04050 Digital Design Capstone

### **Cluster: Finance**

#### **Career Pathway: Accounting**

Concentrator A:

Course Number	Course Name
B45620	Principles of Business Management
B45240	Accounting Fundamentals
B45220	Advanced Accounting

Concentrator B: Not currently offered.

### **Cluster: Marketing**

#### **Career Pathway: Entrepreneurship**

Concentrator A:

Course Number	Course Name
B71540	Principles of Entrepreneurship
B71480	New Venture Development
B71470	<i>Small Business Operations – School Year 2023-2024</i>

Concentrator B: Not currently offered.

### **Cluster: Marketing**

#### **Career Pathway: Marketing and Sales**

Concentrator A:

Course Number	Course Name
B45620	Principles of Business Management
B59140	Marketing Fundamentals
B59180	Strategic Marketing

Concentrator B: Not currently offered



**Cluster: Education Careers****Career Pathway: Biomedical Sciences and Technology**

## Concentrator A

Course Number	Course Name
S52180	Principles of Teaching
S52160	Child and Adolescent Development
S52170	Teaching and Learning

Concentrator B: Education Professions (X72670)

**Cluster: Health Sciences****Career Pathway: Biomedical Sciences and Technology**

## Concentrator A

Course Number	Course Name
S52180	Principles of Biomedical Science
S52160	Human Body Systems
S52170	Medical Interventions

Concentrator B: Not currently offered.

**Cluster: Human and Social Services****Career Pathway: Human Services**

## Concentrator A

Course Number	Course Name
C71760	Principles of Human Services
C71740	Understanding Diversity
C71770	Relationships and Emotions

Concentrator B: Not currently offered.

**Cluster: Law, Public Safety, Corrections and Security****Career Pathway: Fire and Rescue**

## Concentrator A

Course Number	Course Name
V71950	Principles of Fire and Rescue
V71890	Fire Fighting Fundamentals
V71860	Advanced Fire Fighting

Concentrator B: Not currently offered.

**Cluster: STEM****Career Pathway: Computer Science**

## Concentrator A

Course Number	Course Name
B71830	Principles of Computing
B73510	<i>Topics in Computer Science 23-24 School Year</i>
B73520	<i>Computer Science 24-25 School Year</i>

**Cluster: STEM****Career Pathway: Engineering****Concentrator A**

Course Number	Course Name
V48020	Introduction to Engineering Design
V56440	Principles of Engineering
V56500	Civil Engineering and Architecture

Concentrator B: Not currently offered.

**Cluster: Transportation, Distribution and Logistics****Career Pathway: Automotive Services****Concentrator A**

Course Number	Course Name
V03700	Principles of Automotive Service
V03710	Brake Systems
V03720	Steering and Suspensions

Concentrator B: V0373 Automotive Service Capstone

## Pathways at Hammond Area Career Center Class of 2025 and beyond

To be a concentrator and earn a Pathway, students must take all three courses in Concentrator A. Concentrator A must be complete before students can take the Concentrator B course.

### **Cluster: Advanced Manufacturing** **Career Pathway: Welding Technology**

Concentrator A:

Course Number	Course Name
V01400	Principles of Welding Technology
V01410	Shielded Metal Arc Welding
V01420	Gas Welding Processes

Concentrator B::V01430 Welding Technology Capstone

### **Cluster: Architecture and Construction** **Career Pathway: Construction Trades- Carpentry**

Concentrator A:

Course Number	Course Name
V03000	Principles of Construction Trades
V03010	Construction Trades General Carpentry
V03020	Construction Trades: Framing and Finishing

Concentrator B::V03030 Construction Trades Capstone

### **Cluster: Arts AV Tech and Comm** **Career Pathway: Radio and Television Broadcasting**

Concentrator A:

Course Number	Course Name
V04200	Principles of Broadcasting
V04210	Audio and Visual Production Essentials
V04220	Mass Media Production

Concentrator B::V04240 Radio & TV Broadcasting Capstone

### **Cluster: Education and Training** **Career Pathway: Early Childhood**

Concentrator A:

Course Number	Course Name
V07000	Principles of Early Childhood Education
V07010	Early Childhood Education Curriculum
V07020	Early Childhood Education Guidance

Concentrator B::V07030 Early Childhood Education Capstone

### **Cluster: Law, Public Safety, Corrections and Security** **Career Pathway: Criminal Justice**

Concentrator A:

Course Number	Course Name
V08600	Principles of Criminal Justice
V08610	Law Enforcement Fundamentals
V08620	Corrections and Cultural Awareness

Concentrator B::V08630 Criminal Justice Capstone

**Cluster: Transportation, Distribution and Logistics****Career Pathway: Automotive Services****Concentrator A**

Course Number	Course Name
V03700	Principles of Automotive Service
V03710	Brake Systems
V03720	Steering and Suspensions

Concentrator B: V0373 Automotive Service Capstone

**Cluster: Transportation, Distribution and Logistics****Career Pathway: Automotive Collision Repair****Concentrator A:**

Course Number	Course Name
V03750	Principles of Collision Repair
V03760	Automotive Body Repair
V03770	Plastic Body Repair and Painting Fundamentals

Concentrator B::V03780 Collision Repair Capstone

