LAKE CENTRAL HIGH SCHOOL
COURSE SELECTION GUIDE

2026-2027

LAKE CENTRAL HIGH SCHOOL

Office Hours: 6:50 a.m. – 2:50 p.m.
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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.

- **200+ Course Options**
- **21 Advanced Placement (AP) Courses**
- **31 Dual Credit Courses, with more available through the Area Career Center**
- **63 Career Technology Courses and Certifications**
- **17 Honors/Advanced Courses**
- **7 Project Lead The Way (PLTW) Courses**
- **Social and Emotional Learning (SEL) Curriculum**

Lake Central High School enrolls approximately 3,000 students in grades 9-12. This places LCHS as one of the top 6 largest public high schools in Indiana.

Graduates

- **96% Graduation Rate**
- **90% Core 40 Diploma or higher**
- **40% Core 40 with Academic Honors**
- **88% of Graduates pursued a college education**

State of Indiana
End of Course Assessments or Met Graduation Pathway

Lake Central High School earned State Grade A and Meets Expectations for Federal Accountability from the Indiana Department of Education.

Advanced Placement

- **1,610 AP Tests taken in 2025**
- **68% Earned a 3 or higher**

Dual Credit

- **45,000+ Dual Credits earned since 2011**
- **Dual Credit partnerships with FOUR Indiana universities/colleges!**

LCHS CLASS OF 2025 earned more than $22 MILLION in SCHOLARSHIPS!!

GRADUATION REQUIREMENTS Class of ‘27 & ‘28

INDIANA CORE 40

course and credit requirements

English/ Language Arts	**8 Credits** Including a balance of literature, composition and speech.
Mathematics	**6 Credits (in grades 9-12)** 2 credits: Algebra I 2 Credits: Geometry 2 Credits: Algebra II
Science	**6 Credits** 2 credits: Biology I 2 Credits: Chemistry 1, Physics I or Integrated Chemistry Physics 2 Credits: any Core 40 science course
Social Studies	**6 Credits** 2 Credits: U.S. History 1 Credit: Economics 1 Credit: Government 2 Credits: World History/Civilization or Geography/History of the World
Directed Electives	**5 Credits** World Languages Fine Arts Career and Technical Education
Physical Education	**2 Credits**
Health and Wellness	**1 Credits**
Electives	**6 Credits**

40 Total State Credits Required

CORE 40

With Academic Honors (minimum 47 credits)

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

- Complete all requirement 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 "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 credits in 2 or more AP courses and take corresponding exams.
  - B. Earn 6 verifiable transcripted college credits in dual credit courses from the approved dual credit list.
  - C. Earn two of the following:
    1. A minimum of 3 verifiable transcripted college credits from the approved dual credit list
    2. 2 credits in AP courses and corresponding AP exams
  - D. Earn a composite of 1250 or higher on the SAT and a minimum of 560 on math and 590 on the evidence based reading and writing section
  - E. Earn an ACT composite score of 26 or higher and complete written section

CORE 40

With Technical Honors (minimum 47 credits)

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

- Complete all requirement for Core 40.
- Earn 6 credits in the college and career preparation courses in the state-approved College & Career Pathway and one of the following:
  - A. State approved, industry recognized certification or credential or
  - B. Pathway dual credits from the approved dual credit list resulting in 6 transcripted college credits.
- Earn 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. Any one of the options (A-F) of the Core 40 with Academic Honors.
  - B. Earn the following scores or higher on Work Keys, 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

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.

Succeeding with the Indiana Core 40

(Lake Central students must earn 40 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.***

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.

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.

Requirements for the Class of 2029 and beyond are on the next page.

INDIANA DEPARTMENT of EDUCATION

CURRENT & FUTURE INDIANA DIPLOMA: COMPARISON

The new diploma structure includes a base (minimum requirements) for every student, plus the opportunity to earn readiness seals aligned with their unique path. Students are encouraged to seize this flexibility by personalizing their high school experience. The new seals provide additional intentionality to maximize readiness and are designed to be permeable, allowing students to update their graduation plan and pivot, if their original interests and goals change. Students who do not earn a seal must still complete components 2 and 3 of Graduation Pathways.

	CURRENT INDIANA CORE 40	FUTURE NEW INDIANA DIPLOMA
ENGLISH	8 CREDITS	8 CREDITS • 2 credits: English 9 • 1 credit: Communications-focused course • 5 additional English credits
MATH	6 CREDITS • 2 credits: Algebra I • 2 credits: Geometry • 2 credits: Algebra II	7 CREDITS • 2 credits: Algebra I • 1 credit: Personal Finance • 4 additional math credits
SCIENCE, TECHNOLOGY, AND ENGINEERING	6 CREDITS • 2 credits: Biology I • 2 credits: Chemistry 1, Physics I, or Integrated Physics • 2 credits: Any Core 40 science course	7 CREDITS • 2 credits: Biology I • 1 credit: Computer Science • 2 additional science credits • 2 STEM-focused credits
SOCIAL STUDIES	6 CREDITS • 2 credits: U.S. History • 1 credit: U.S. Government • 1 credit: Economics • 2 credits: World History/Civilization or Geography/History of the World	5 CREDITS • 2 credits: U.S. History • 1 credit: U.S. Government • 2 credits: World Perspectives (Flexible options, including advanced world language or world-focused social studies courses)
PE/HEALTH	3 CREDITS • 2 credits: Physical Education • 1 credit: Health & Wellness	2 CREDITS • 1 credit: Physical Education • 1 credit: Health & Wellness
DIRECTED ELECTIVES	5 CREDITS Any combination of World Languages, Fine Arts, and/or Career & Technical Education	N/A
PERSONALIZED ELECTIVES	6 CREDITS	12 CREDITS Students are encouraged to utilize the new readiness-seals to align these personalized electives with their unique goals. Personalized electives can include a variety of courses, such as CTE, Performing or Fine Arts, and World Languages.
COLLEGE & CAREERS	N/A	1 CREDIT • 1 credit: Preparing for College & Careers
TOTAL	40 CREDITS	42 CREDITS

Hoosier high school students have the opportunity to earn approximately 60 credits.

Note: The federally-required alternate diploma for students in special education with a significant cognitive disability is still available.

INDIANA DEPARTMENT of EDUCATION

BLUEPRINT FOR SUCCESS: READINESS-SEALS

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

	ENROLLMENT	EMPLOYMENT	ENLISTMENT & SERVICE

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

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

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

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

Lake Central High School Graduation Pathway Checklist

Students must complete all three Graduation Pathway Requirements.

Student Name: _____ **Cohort:** _____

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, Lean and Demonstrate engaging, and complex question, problem, or challenge. Students engage in a rigorous, extended process of asking question, finding skills, and applying information. Students often make work public by explaining, displaying, and/or presenting it to people beyond the classroom. This can include the 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 intership, 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:_____

Postsecondary-Ready

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

☐ Honors Diploma ☐ AHD ☐ THD

☐ ACT College Ready Benchmarks (18 in English or 22 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 _____

☐ State and Industry Recognized Credential or Certification
_____

☐ CTE Concentrator (Earn a "C" average in three (3) 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 (3) courses – at least one (1) in core.)
AP/DC1 _____ AP/DC2_____ AP/DC3 _____ AP/DC GPA _____ Core AP Course _____

☐ Locally Created Pathway

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 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:

Distinction	Translation	Accoutrements for Ceremony	Required GPA
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 8th semester. ***(Note: Senior Honors Night takes place prior to the completion of the 8th semester. As a result, students that have qualified for one of the distinctions by the end of the 7th 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 8th semester – graduation program, 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

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. 10th, 11th, and 12th 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 Bell Schedule		Early Release Bell Schedule	
Blue Day	**White Day**	Blue Day	White Day
1st Period **7:15-8:48 (93)**	**5th Period** **7:15-8:48 (93)**	**1st Period** 7:15-8:09 (54)	**5th Period** 7:15-8:25 (70)
2nd Period **8:52-10:26 (93)**	**6th Period** **8:52-10:26 (93)**	**2nd Period** 8:14-9:08	No 6th Period- PTE
	8:53-9:25 Advisory/SEL	**3rd Period** 9:13-10;07 (54)	**7th Period** 8:30-9:40 (70)
3rd Period **10:31-12:31 (120)** **Lunches** **A Lunch= 10:26-10:55** **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)** **Lunches** **A Lunch= 10:26-10:55** **B Lunch:= 10:57-11:27** **C Lunch= 11:29-11:59** **D Lunch= 12:01-12:31**	**4th Period** 10:12-11:39 (87) Lunches A=10:08-10:35 C300s-C200s B=10:35-11:02 C100s, D100s, D200s, B Hall C=11:02-11:29 E Halls, G Hall, PE **Back to Class** 11:29-11:39	**8th Period** 9:45-11:39 (84) Lunches A=10:08-10:35 C300s-C200s B=10:35-11:02 C100s, D100s, D200s, B Hall C=11:02-11:29 E Halls, G Hall, PE **Back to Class** 11:29-11:39
4th Period **12:36-2:09 (93)**	**8th Period** **12:36-2:09 (93)**		

Pathways to Excellence (PtE) 8:53-10:26

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. 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.

GRADING STANDARDS

Percentage	Letter Grade	GPA	Honors and AP Courses Only
100% - 92.5%	A	4.00	5.00
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	4.00
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	3.00
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	1.00
62.49% - 59.5%	D-	0.67	.67
59.49% - 0	F	0	0
Audit (no credit)	W/F, W, N, I	0	0

All accelerated classes, identified on page 13, 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, both the original and the new grade will show on the transcript and be factored into the student's grade point average.

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. There are no restrictions on the grades students attain in credit recovery courses. Upon completion of a credit recovery course, both the original grade and the new grade earned in credit recovery will show on the transcript and be factored into the student's grade point average. **Credit recovery courses do not meet NCAA standards**.

If a student retakes a course in a traditional Lake Central classroom setting or through Indiana Online Academy, there are no restrictions on the grade attainable. Upon completion of the course, both the original grade and the new grade will show on the transcript and be factored into the student's grade point average. All courses will remain on the transcript.

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.

Dual Credit Purdue Northwest

High School Course	HS Code	College Course	Institution	Approx. Cost	Credit Hours	GPA/Requirements	Core Transfer Library
Critical Thinking and Argumentation	E10740	ENG 104	Purdue Northwest	$75	3	2.5	Yes
Senior Literature	E1052D	ENG 231	Purdue Northwest	$75	3	2.5 and C or better ENG 104	Yes
Speech & Communication	E1076D	COM 114	Purdue Northwest	$75	3	2.5	Yes
US History	H1542C	HIST 151	Purdue Northwest	$75	3	2.5	Yes
US History	H1542D	HIST 152	Purdue Northwest	$75	3	2.5	Yes
Precalculus	M25640	MA 153	Purdue Northwest	$75	3	2.5	Yes
Trigonometry	M25660	MA 154	Purdue Northwest	$75	3	2.5 and C or better in MA 153 or SAT Math score 590, ACT 29	Yes
Honors Precalculus	M2564H	MA 153	Purdue Northwest	$75	3	2.5	Yes
Honors Trigonometry	M2566H	MA 154	Purdue Northwest	$75	3	2.5 and C or better in MA 153 or SAT Math score 590, ACT 29	Yes
Statistics	M2564D	STAT 301	Purdue Northwest	$315.30	3	2.5 and C or better in MA 153	Yes
Calculus I Honors	M2527D	MA 163	Purdue Northwest	$125	5	2.5 and C or better in MA 153, AP Precalculus score of 3 or better	Yes
Calculus I & II Honors	M2544D M2544E	MA 163 MA 164	Purdue Northwest	$125 $125	5 5	2.5 and C or better in MA 153, AP Precalculus score 3 or better	Yes
Microeconomics	H1574D	ECON 251	Purdue Northwest	$75	3	2.5 and one of the following: C or better in MA 153, SAT Math 560 or higher, or ACT Math score of 23 or higher	Yes

Dual Credit- Indiana University

High School Course	HS Code	College Course	Institution	Approx Cost	No. of College Credit Hours	GPA/Requirements	Core Transfer Library
Chemistry I Honors ACP	S3064A	C101 C121	Indiana University Bloomington	Free	5	2.75	Yes
Anatomy & Physiology Honors ACP	S5276H	BIO N213 &PHSL P130	Indiana University Bloomington	Free	5	2.75	No
Principles of Computer Information	B71830	CSCI A290, CSCI C200 & CSCI C106	Indiana University Bloomington	Free	8	2.5	
Computer Science	B4570A	CSCI C212	Indiana University Bloomington	Free	4	2.75	
Finite Mathematics	M25300	MATH M118	Indiana University Bloomington	Free	3	2.75	

Dual Credit- Ivy Tech

High School Course	HS Code	College Course	Institution	Approx Cost	No. of College Credit Hours	GPA/Requirements	Core Transfer Library
Digital Apps & Responsibility	B45280	OTEC 107	Ivy Tech	Free	3	None	No
Principles of Entrepreneurship	B7154A B7154B	ENTR 100 & ENTR 200	Ivy Tech	Free	6	None	No
New Venture Development	B7148A B7148B	ENTR 215 ENTR 218	Ivy Tech	Free	6	Principles of Entreprenneurship	No
Small Business Operations	B71470A B71470B	ENTR 105 ENTR 205	Ivy Tech	Free	6	New Ventures Development	No
Principles of Business Mgmt	B4562D B4562E	BUSN 101	Ivy Tech	Free	3	None	No
Management Fundamentals	B7143A B7143B	BUSN 105 BUSN 201	Ivy Tech	Free	6	None	No
Principles of Auto Service	V7213A V7213B	AUTI 100 AUTI 111	Ivy Tech	Free	6	None	No
Auto Brake Systems	V72050	AUTI 121	Ivy Tech	Free	3	None	No
Steering and Suspension	V7212A V7212B	AUTI 122	Ivy Tech	Free	3	Prerequisite or Corequiriste AUTI 111 or AUTI 113	No
Auto Capstone		AUTI 131 AUTI 145	Ivy Tech	Free	6		No
Principles of Machining	V7109A V7109B	MTTC 101	Ivy Tech	Free	6	None	No
Adv Precision Machining	V7107A V7107B	MTTC 110	Ivy Tech	Free	6	MTTC 102, MTTC 103	No
Intro to Engineering PLTW	V4812A V4812B	DESN 101	Ivy Tech	Free	3	None	No
Principles of Engineering PLTW	V4814A V4814B	DESN 104	Ivy Tech	Free	3	Prerequisite DESN 101	No
Civil Engineering & Architecture PLTW	V4820A V4820B	DESN 105	Ivy Tech	Free	3	DESN 104	No
Digital Electronics PLTW	V5538A V5538B	EECT 112	Ivy Tech	Free	3	Demonstrated readiness in TECH or STEM Math Path Ready Route 2	No

Dual Credit- Vincennes University

High School Course	HS Code	College Course	Institution	Approx Cost	No. of College Credit Hours	GPA/Requirements	Core Transfer Library
Graphic Design Layout	V5550A V5550B	DESN 155	Vincennes University	Free	3	None	No
Digital Design Capstone	V7246A V7246B	DESN 120	Vincennes University	Free	3	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 8, 2026 (4 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 four 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 consider transferring to a regular course second semester. Teachers are encouraged to 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 Music Theory

Business
AP Computer Science A
AP Principles of Computer Science
AP Business with Personal Finance

English
AP Seminar English 10
AP English 11 Language and Composition
AP English 12 Literature and Composition

Math
AP Precalculus
AP Statistics
AP Calculus AB
AP Calculus BC

Science
AP Biology
AP Chemistry
AP Environmental Science
AP Physics 1

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

Advanced Placement (AP) Continued

Interdisciplinary
AP Seminar
AP Research

Honors Courses

English
English 9 Honors
Student Media Honors
Mass Media Honors

Mathematics
Algebra II Honors
Geometry Honors
Calculus I Honors
Calculus II Honors

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

World Languages
French III Honors
French IV Honors
German III Honors
German IV Honors
Spanish III Honors
Spanish IV Honors

ADVANCED PLACEMENT (AP) 2026-27 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 2026 for yearlong and first semester courses, and in January-February of 2027 for second semester courses. After the enrollment window, students may still register with a late fee if space allows. The last day to register for an AP Exam is the last day of February. **No registrations will be accepted after that date.** There is also a drop fee if the student no longer wishes to take the exam. In the 2026 school year, exams cost $107/exam. Exam rates are set at the beginning of the school year. Students **enrolled** in math, science, English, US Government, US History and AP Capstone Courses received a waiver from the state for the exam fee for a maximum of 2 courses per year. 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 20, 2026.** Students requesting schedule changes **after March 21, 2026**, will need to complete a ***Course Change Request*** form. This **must be** turned into Guidance no later than **Friday, Friday, July 24, 2026 by 3:00pm.** This cannot be emailed or faxed. The **Schedule Change Committee will review requests from Monday, July 27 through Friday, July 31, 2026. 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 24, 2026** will need to complete a ***Schedule Change Request*** form and return it to Guidance **no later** than **Monday, August 17, 2026 by 2:15pm**. This must be physically dropped off to Guidance and cannot be emailed or faxed. A Schedule Change Committee will review forms, and denied requests will be notified via email.

Students **who choose to drop a class after the first four weeks**, **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 Tuesday, September 8, 2026**. 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.

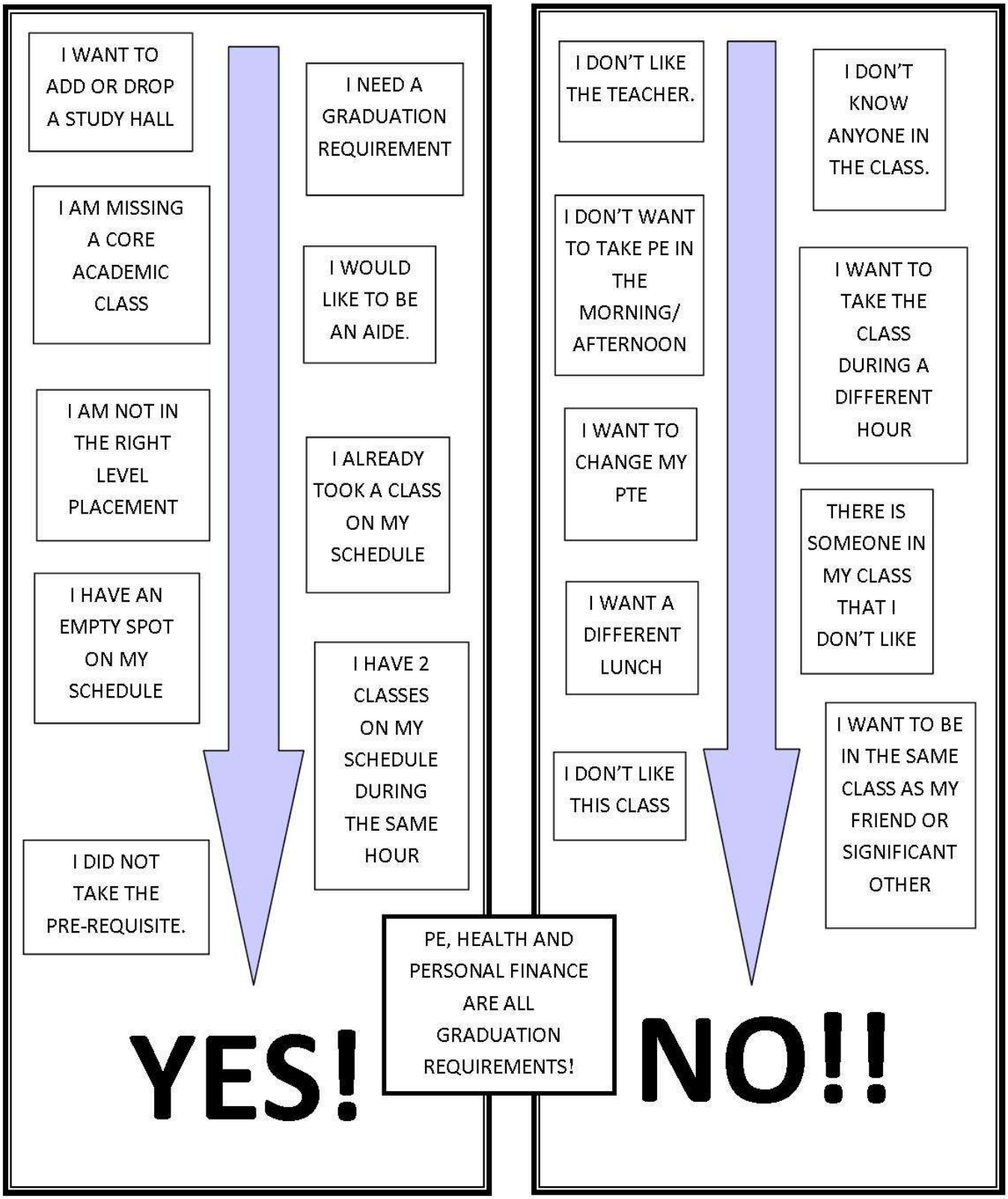
A student's schedule may also be changed for the following reasons:

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 artwork. 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 lunchtime. 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 2026-2027 Course Selection Sheet

R= Required Course Q=Quantitative Reasoning Course D=Dual Credit *Fine Art (s)=Semester Course W=Work Based Learning S=Service Based Learning P=Project Based Learning ACP= Advanced College Placement

Honors **AP**

ENGLISH				Grade Level			
English	R			9			
English 9 w/Lab				9			
English 9 Honors				9			
English 10	R				10		
English 10 w/ Lab					10		
AP Seminar English 10					10		
English 11	R					11	
AP English 11 Language& Composition						11	
AP English 12 Literature & Composition							12
Technical Communication (s)	R						12
Critical Thinking and Argumentation DC (s)	R	D	P				12
World Literature (s)	R						12
Senior Literature DC (s)	R	D					12
Speech & Com(s)							12
Speech & Com DC (s)		D					12
Film Literature (s)					10	11	12
English- New Language				9	10	11	12

MATHEMATICS				Grade Level			
Algebra I	R			9			
Geometry	R				10		
Geometry Honors				9	10		
Algebra II	R				10	11	12
Algebra II Honors				9	10	11	12
Analytical Algebra II	P				10	11	12
Geometry/Algebra II (2 class periods)					10		
Finite Mathematics (s)	Q	D				11	12
PRIME Math							12
Pre-Calculus (s)	Q	D			10	11	12
Trigonometry (s)	Q	D			10	11	12
Honors PreCalculus (s)	Q	D			10	11	12
Honors Trigonometry (s)	Q	D			10	11	12
AP Precalculus	Q				10	11	12
AP Calculus AB	Q					11	12
Calculus I- Honors	Q	D				11	12
AP Calculus BC	Q						12
Calculus 1 & 2 Honors	Q	D					12
Statistics	Q	D				11	12
AP Statistics	Q					11	12

INTERDISCIPLINARY				Grade Level			
AP Seminar	P				10	11	12
AP Research	P					11	12

SCIENCE				Grade Level			
Biology	R			9			
Biology Honors				9			
AP Biology					10	11	12
Principles Biomedical Science PLTW	P				10	11	12
Human Body Systems PLTW	P					11	12
Medical Interventions- PLTW	P						12
Chemistry	R	Q			10	11	12
Chemistry I Honors/ACP	Q	D			10	11	12
AP Chemistry (2 class periods)	Q					11	12
Earth Space Science					10	11	12
Integrated Chemistry/Physics	Q				10	11	12
Physics	Q				10	11	12
AP Physics I	Q					11	12
Anatomy & Physiology Honors	D					11	12
AP Environmental Science	Q				10	11	12
Environmental Science (s)					10	11	12
Forensics (s)						11	12
Human Genetics (s)					10	11	12
Zoology (s)					10	11	12

SOCIAL STUDIES				Grade Level			
Geography & History of the World	R			9	10	11	12
AP Human Geography				9	10	11	12
U.S. History	R	D				11	
AP U.S. History					10	11	
U.S. Government (s)	R						12
AP U.S. Government (s)						11	12
Economics (s)	R	Q					12
AP Macroeconomics (s)	Q						12
Microeconomics DC (s)	Q	D					12
AP Microeconomics (s)	Q						12
Psychology (s)					10	11	12
Sociology (s)					10	11	12
AP Psychology					10	11	12
Ethnic Studies (s)				9	10	11	12
Indiana Studies (s)				9	10	11	12
Preparing for College/Careers	R			9			

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Honors **AP**

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

COMMUNICATIVE ART				Grade Level			
Student Media*	P				10	11	12
Student Media Honors* (2 Periods)	P					11	12
Student Broadcast*	P				10	11	12
Student Broadcast Honors* (2 Periods)	P					11	12
Theatre Arts*	P			9	10	11	12
Theatre Arts II*	P				10	11	12
Theatre Production Mgmt*	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

PHYSICAL EDUCATION				Grade Level			
PE: Gym (s)	R			9			
PE-Swim/Fitness (s)				9	10	11	12
Lifetime Fitness (s)					10	11	12
Physical Conditioning					10	11	12
Sports Conditioning					10	11	12
Intro to Sports Conditioning				9			
Life Saving & Water Safety (s)					10	11	12
Health Education (s)	R				10	11	12
Lifeguarding	S				10	11	12
Intro to Sports Medicine (s)					10	11	12

*PE Swim fulfills PE Gym requirement

MUSIC				Grade Level			
Junior Treble Choir*	P			9	10	11	12
Senior Treble Choir*	P				10	11	12
Varsity Choir*	P			9	10	11	12
Concert Choir*	P				10	11	12
Symphonic Band*	P			9	10	11	12
Concert Band*	P				10	11	12
Wind Ensemble*	P				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
AP Music Theory*					10	11	12
Music History/ Appreciation* (s)				9	10	11	12
Hand Bells	P			9	10	11	12
Introduction to Guitar* (s)	P			9	10	11	12

WORLD LANGUAGE							
French I, II				9	10	11	12
French III Honors	P					11	12
German I, II				9	10	11	12
German III Honors						11	12
German IV Honors							12
Spanish I, II, III				9	10	11	12
Spanish III Honors						11	12
Spanish IV Honors							12

CAREER & TECHNICAL EDUCATION				Grade Level			
Intro to Engineering Design- PLTW	D	P		9	10	11	12
Principles of Engineering PLTW	Q	D	P		10	11	12
Civil Engineering & Architecture PLTW	Q	D	P			11	12
Digital Electronics PLTW	Q	D	P			11	12

WORK BASED LEARNING				Grade Level			
Career Exploration/Internship	W						12

Lake Central High School 2026-2027 Course Selection Sheet

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Honors **AP**

BUSINESS				Grade Level			
Computer Foundations	R			9			
Principles of Business Management	P			9	10	11	12
Personal Finance & Resp.	R	Q				11	12
Principles of Business Management DC	P	D		9	10	11	12
Principles of Entrepreneurship	P	D		9	10	11	12
New Ventures Development	P	D			10	11	12
Small Business Operation	P	D				11	12
Principles of Computing w/ AP Computer Science Principles	Q	D	P	9	10	11	12
Topics in Computer Science					10	11	12
Computer Science w/ AP Computer Science A	Q					11	12
AP Networking					10	11	12
Accounting Fundamentals	P	S			10	11	12
Advanced Accounting	Q	S	P			11	12
Digital Apps & Responsibility	D			9	10	11	12
Marketing Fundamentals					10	11	12
Management Fundamentals					10	11	12
Strategic Marketing						11	12
Digital Marketing					10	11	12
AP Business w/ Personal Finance	P			9	10	11	12

FAMILY & CONSUMER SCIENCE							
Nutrition & Wellness I (s)	P			9	10	11	12
Adv. Nutrition & Wellness (s)	P			9	10	11	12
Adv. Nutrition& Wellness-Bake (s)	P			9	10	11	12
Principles of Culinary Hospitality	P				10	11	12
Principles of Interior Design	P			9	10	11	12
Principles of Teaching				9	10	11	12
Child & Adolescent Development					10	11	12
Teaching to Learn						11	12
Principles of Human Services				9	10	11	12
Fundamentals of Human Services					10	11	12

TECHNICAL EDUCATION				Grade Level			
Principles of Digital Design				9	10	11	12
Digital Design Graphics 1/3					10	11	12
Graphic Design Layout 2/3					10	11	12
Tech Skills Graphics 3/3					10	11	12
Digital Design Capstone 3 periods						11	12
Principles of Precision Machine	D			9	10	11	12
Precision Machine Fundamentals 1/3	Q				10	11	12
Adv Precision Machine 2/3	Q				10	11	12
Tech Skills Machine 3/3					10	11	12
Precision Machine Capstone 3 periods	Q	D	P			11	12
Principles of Auto Service	D			9	10	11	12
Brake Systems 1/2					10	11	12
Steering and Suspension 2/2					10	11	12
Auto Service Capstone 2 periods	D	P				11	12

AREA CAREER CENTER (4 PERIODS)				Grade Level			
Work Based Learning earned in Capstone							12
Adv Manufacturing /EMET	W					11	12
Auto Technology	W					11	12
Computer Information Technology	W					11	12
Construction Technology	Q	W				11	12
Criminal Justice & Law	W					11	12
Culinary Arts & Hospitality	W					11	12
Dental Assisting	W					11	12
Early Childhood Education	W					11	12
Emergency Medical Services	W					11	12
Graphic Arts & Digital Imaging	W					11	12
Health Careers I & II	W					11	12
Radio/TV Production	W					11	12
Welding	W					11	12

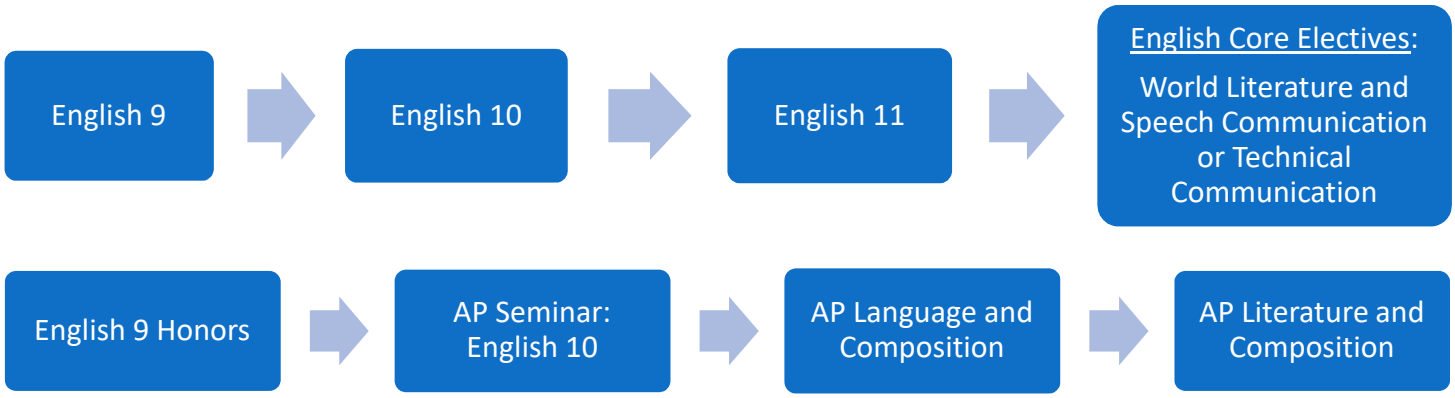
MISCELLANEOUS				Grade Level			
Peer Mentoring	S			9	10	11	12
Study Hall (No Credit)				9	10	11	12
College Course (Off Campus)							12
Independent Research							12

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 (E1002A & E1002B)

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 as well as an introduction and application of MLA formatting in formal writing. 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 & E1002I)

2 semesters, 2 credits

English 9 Honors is an accelerated curriculum. Students read five novels, and the majority of the reading is done outside of class. 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 thematic approach is used for literature units. Poetry, nonfiction, informational texts and short stories are chosen to compliment and anchor texts in those units. 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. Summer reading list can be found on the website before the end of the school year.

English 10 (E1004A & E1004B)
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 as well as an introduction and application of MLA formatting in formal works. 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 Latin roots. Students write and deliver grade-appropriate oral and multimedia presentations.

AP Seminar: English 10 Honors (E1104H & E1104I)
2 semesters, 2 credits
AP Seminar English 10 is designed as a seminar-style English course focusing on foundational writing, collaboration, research, and presentation skills. Through an inquiry-based approach, student practice reading and analyzing articles, research studies, and foundational, literary, and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. The course integrates with local English standards, allowing for flexibility in instruction. Students learn to synthesize information from multiple sources, express their own perspectives through written essays, and deliver oral and visual presentations individually or as part of a team. Assessment in the course includes two through-course performance tasks and an end of course exam, with the final AP score being calculated on a 1-5 scale. Students taking this course can not also take AP Seminar (I0552A and I0552B) for elective credit. The same AP exam is used with this course and the AP Seminar (I0552A and I0552B).

English 11 (E1006A & E1006B)
2 semesters, 2 credits
Usage, composition, vocabulary, and American literature are integrated into a one-year college prep program. Mastery of standard language conventions is stressed in this course. Composition is taught as a process with various types of writing characteristics. Vocabulary is taught both as part of the selections and as a separate entity. The American literature component has textbook selections, as well as longer works. Students write and deliver grade-appropriate oral and multimedia presentations.

AP English 11
Language and Composition (E1056A & E1056B)
2 semesters, 2 credits
This class focuses on material and skills appropriate for the AP Language and Composition test. With argumentation at the core of the curriculum, students will analyze a variety of fiction and nonfiction texts (with a greater emphasis based on nonfiction) as a means to develop their own voices in their own writing. AP is a cooperative educational endeavor between secondary schools and post-secondary institutions. Administered by the College Board, the AP program provides capable students the opportunity to earn college credit. This course has required Summer Reading. Summer Reading books can be found on the website before the end of the school year.

AP English 12
Literature and Composition (E1058A & E1058B)
2 semesters, 2 credits
***Recommended*: Must have passed English 11**
This class focuses on the knowledge and skills appropriate for the AP Literature and Composition test. The literature component focuses on an in-depth study of short fiction, long fiction (novels and plays), and poetry. Students study composition as a process and write a variety of papers. Mastery of language conventions is expected. Vocabulary is studied both as part of the reading and as a separate entity. Students write and deliver grade-appropriate oral presentations. AP is a cooperative educational endeavor between secondary schools and postsecondary institutions. Administered by the College Board, the AP program provides capable students the opportunity to pursue college-level studies while still in high school. This course has required Summer Reading. Summer Reading books can be found on the website before the end of the school year.

Seniors, not in AP English 12, will take either World Literature of Dual Credit Senior Literature, and then choose between Technical Communications or Speech and Communication (or the Dual Credit version).

Technical Communication (E10960)
1 semester, 1 credit
Technical Communication is the study and application of the processes and conventions needed for effective technical writing-communication. Using the writing process, students demonstrate a command of vocabulary, English language conventions, research and organizational skills, an awareness of the audience, the purpose for writing, and style.

World Literature (E10520)
1 semester, 1 credit
World literature surveys literature written by major authors of the Western and Eastern canons. This course takes an analytical approach to literary works produced by writers of various cultures and nationalities. Consistent reading, formal and informal writing, discussion, vocabulary, and Greek words are part of this college prep course. Students may be eligible to take this course as dual credit through Purdue University Northwest and earn college credit while satisfying the Indiana state requirements.

Dual Credit Critical Thinking and Argumentation (E10740)
1 semester, 1 credit
Dual Credit: ENG 104 Purdue University Northwest
Required: Must have a minimum 2.50 GPA for Dual Credit Enrollment
Critical Thinking and Argumentation is the study of deductive and inductive logic, including logical fallacies, and should challenge students to think critically, analytically, and philosophically. Students learn to formulate thoughtful inquiry questions, connect ideas or concepts, challenge ideas and concepts, and rephrase ideas when appropriate. Active class participation is essential, including persistent questioning, rational discussion, and reasoned argumentation. Students make comments that reflect the development of logic (a line or reasoning), represent a clear point of view, and involve evidence of support (data, examples, anecdotes, documents, information from a variety of sources). Students use the same Standard English conventions for oral speech that they use in their writing.

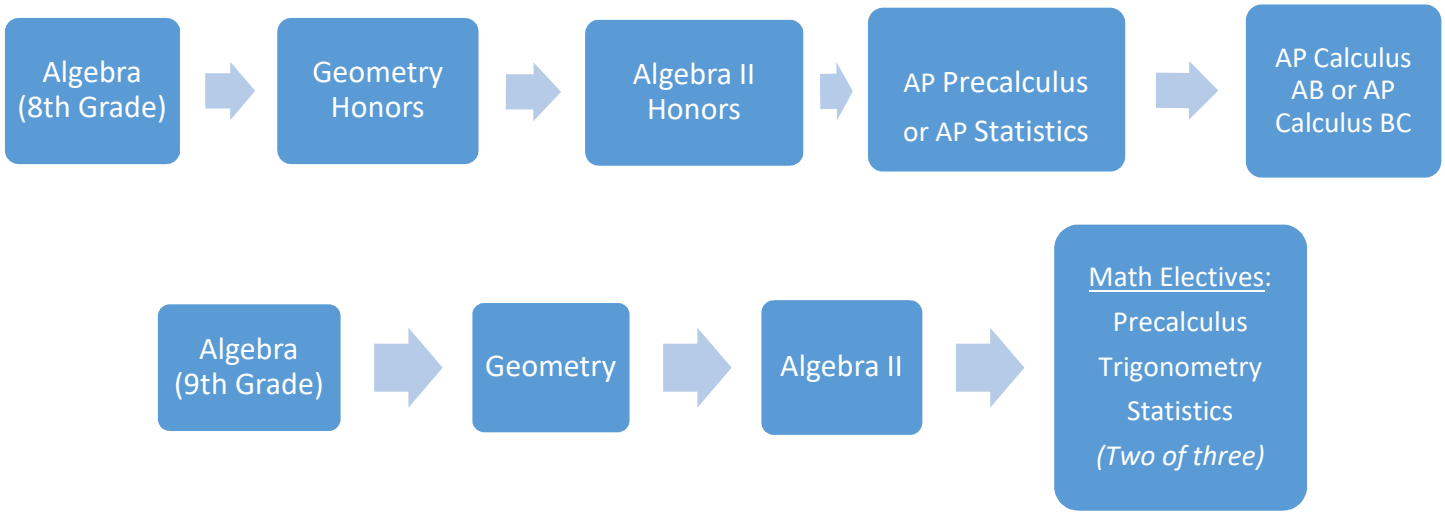
Dual Credit Senior Literature (E1052D)
1 semester, 1 credit
Dual Credit Senior Literature surveys literature written by major authors of the Western and Eastern worlds. This course takes an analytical approach to literary works produced by writers of various cultures and nationalities. Consistent reading, formal and informal writing, discussion, vocabulary, and Greek words are part of the dual credit course. Student who take this course as dual credit through Purdue University Northwest have the opportunity to earn college credit while satisfying the Indiana state requirements. **NOTE: Students must take and complete/pass Dual Credit Critical Thinking and Argumentation in order to take this course.*

Speech and Communication (E10760) or Speech and Communication Dual Credit (E1076D)
1 semester, 1 credit
Dual Credit: Com 11400 Purdue University Northwest
Recommended: Must have a minimum 2.50 GPA for Dual Credit Enrollment
In this class we will read and analyze speeches and famous speeches from history. Students will deliver several speeches including: informational, argumentative/persuasive, demonstrative and instructional, and impromptu. Students will create multimedia presentations and have class discussions, and will write, create outlines, and conduct research regularly. Students will be tested on vocabulary and textbook content. This course may be taken in lieu of World Literature credit for seniors.
Student presentations and the delivery of speeches are a requirement for this course.

Film Literature (E10340)
1 semester, 1 credit
***Recommended*: English 10**
Film Literature, a course based on Indiana's Academic Standards for English/Language Arts and the Common Core State Standards for English/Language Arts, is a study of how literature is adapted for film or media. Students read about the history of film, the reflection or influence of film on the culture, and issues of interpretation, production and adaptation. Students examine various filmmaking techniques- such as choices in lighting, camera angels, etc.- to study the effect of films on their audiences.

English as a New Language (E1012A & E1012B)
2 semesters, 2 credits
This course is designed for students who have been in the U.S. fewer than four years. English as a New Language (ENL) provides ENL students with instruction in English to improve their proficiency in listening, speaking, reading, and writing. Emphasis is placed on helping students function within the regular school setting and within an English-speaking society. Students are placed in this class by recommendation only.

MATH *Course Sequencing*



Algebra I (M2520A & M2520B)
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 (M2532A & M2532B)
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 & M2532I)
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. This course has required summer review work.

Algebra II (M2522A & M2522B)
2 semesters, 2 credits
***Recommended*: Geometry and Algebra I**
This course includes a review of Algebra I and an expansion of the topics covered in Algebra I. This course covers relations, functions, polynomials, algebraic fractions, logarithmic and exponential functions, sequences and series, counting principles and probability. Solving higher degree equations and inequalities, and applications of math to science will also be included.

Geometry and Algebra II (M25320 & M25220)
2 semesters, 2 class periods, 4 credits
***Recommended*: Algebra I**
In the first semester, 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. In the second semester, an expansion of the topics covered in Algebra I. This course covers relations, functions, polynomials, algebraic fractions, logarithmic and exponential functions, sequences and series, counting principles and probability. Solving higher degree equations and inequalities, and applications of math to science will also be included.

A**nalytical Algebra II (M2524A & M2524B)**
2 semesters, 2 credits
***Recommended*: Algebra 1**
Analytical Algebra II builds on previous work with linear, quadratic and exponential functions and extends to include polynomial, rational, radical, logarithmic, and other functions. Data analysis, statistics, and probability content should be included throughout the course, as students collect and use univariate and bivariate data to create and interpret mathematical models. Additionally, Analytical Algebra II should focus on the application of mathematics in various disciplines including business, finance, science, career and technical education, and social sciences using technology to model real world problems with various functions, using and translating between multiple representations. This course is not recommended for students interested in pursuing a STEM degree at a four-year institution; this course does not prepare students for Pre-Calculus Algebra / Precalculus Trigonometry**. If students use this course to fulfill this credit, the parent and student must sign a consent form notifying the parent and the student that enrollment in Analytical Algebra II may affect the student's ability to attend a particular post-secondary educational institution or enroll in a particular course at a particular post-secondary educational institution because Analytical Algebra II may not align with academic requirements established by the post- secondary educational institution.**

Algebra II Honors (M2522H & M2522I)
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. This course has required summer work.

AP Precalculus (M2563A & M2563B)
2 semesters, 2 credits
***Recommended*: Prerequisites: Algebra II Honors or Teacher recommendation**
This course covers topics including modeling, real-world data, exploring multiple representations and mastering symbolic manipulation. The course teaches students to approach precalculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and to make connections, amongst these representations. Students learn how to use technology to help solve problems,

experiment, interpret results, and support conclusions. This course is not offered Dual Credit. Students seeking this course for Dual Credit should take Honors Precalculus & Trigonometry.

Honors Precalculus & Trigonometry (M2564H & M2566H)
2 semesters, 2 credits
This course is offered Dual Credit: MA 15300 PNW and MA 15400 PNW
This course covers topics including modeling, real-world data, exploring multiple representations and mastering symbolic manipulation. The course teaches students to approach Precalculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and to make connections, amongst these representations. Students learn how to use technology to help solve problems, experiment, interpret results, and support conclusions. This course is offer as Dual Credit with PNW. Students who wish to take this as an Advanced Placement (AP) course should select AP Precalculus.

Pre-Calculus (M25640)
1 semester, 1 credit
This course is offer for Dual Credit: MA 15300 PNW
Recommended: **Algebra II - C or higher**
This course is designed to further teach certain topics taught in Algebra II Honors but not taught in Regular Algebra II. A review of Algebra II topics is followed by an extensive study of polynomial functions including graphing, domain, range, transformations, relative maximum/minimums, and solving for real and imaginary solutions. The class also includes sequences and series, exponential and logarithmic functions, and an emphasis on conic sections including circles, parabolas, ellipses, and hyperbolas. A TI83 or higher graphing calculator is used.

Trigonometry (M25660)
1 semester, 1 credit
This course is offer for Dual Credit: MA 15400 PNW
Recommended: **Algebra II**
Dual Credit Requirement: Students must take Pre-Calculus Dual Credit (MA 15300) in the fall and earn a C or better grade to be eligible to take Trigonometry Dual Credit in the spring.
Trigonometry provides students with the skills and understandings that are necessary for advanced manipulation of angles and measurement. Trigonometry provides the foundation for common periodic functions that are encountered in many disciplines, including music, engineering, medicine, and finance (and nearly all other STEM disciplines). Students will also advance their understanding of imaginary numbers through an investigation of complex numbers and polar coordinates. A strong understanding of complex and imaginary numbers is a necessity for fields such as engineering and computer programming. A TI83/TI84 or higher graphing calculator are required. No TI30, TI36, or Casio calculator will be allowed on any assessment.

Finite Mathematics (M25300)
1 semester, 1 credit
Quantitative Reasoning Course
Finite Mathematics is a collection of mathematical topics, frequently used in business or public policy contexts. It is a course designed for students who will undertake higher-level mathematics in college that may not include calculus. Finite Math is made up of five strands: Sets; Matrices; Networks; Optimizations; and Probability. The skills listed in these strands indicate what students should know and be able to do in Finite Math. The eight Process Standards prescribed that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

AP Calculus AB (M2562A and M2562B)
2 semesters, 2 credits
Quantitative Reasoning Course
AP Calculus AB introduces the topics of differential and integral calculus of a single variable. This course is equivalent to 20 weeks of college calculus. Major topics to be covered: limits and continuity, derivative formulas, detailed graphing and analysis of functions, applications of calculus concepts to real- world story problems, integration formulas, area under a curve, volume of solids, and trigonometric, exponential, and logarithmic applications. Students taking this course will be required to ha.ve a graphing calculator (TI 84 preferred). The curriculum is aligned to the College Board guidelines, with actual AP questions used as a guide. This course prepares the student to take the AP Calculus AB exam in May. A student may be rewarded one semester of college credit based on their exam score. Credit is awarded at the discretion of the college

Calculus I Honors Dual Credit (M2527D and M2527E)
2 semesters, 2 credits
Dual Credit: MA 16300 PNW
Required: Dual Credit MA 15300 and MA 15400 with a C or better, or a 3 or better on AP Precalculus Exam
Introduces the topics of differential and integral calculus of a single variable. Major topics to be covered: limits and continuity, derivative formulas, detailed graphing and analysis of functions, applications of calculus concepts to real- world story problems, integration formulas, area under a curve, volume of solids, and trigonometric, exponential, and logarithmic applications. Students taking this course will be required to have a graphing calculator (TI 84 preferred). This course may meet with AP Calculus AB.

AP Calculus BC (M2572A and M2572B) and AP Calculus Lab (M2560A and M2560B)
2 semesters, 4 credits
Quantitative Reasoning Course
***Recommended*: Pre-Calculus/Trig Honors and teacher recommendation, or AP Precalculus**
AP Calculus BC is an extension of AP Calculus AB. This course is equivalent to 30 weeks of college calculus. It includes all the topics listed for AP Calculus AB plus advanced integration techniques, solving logistic differential equations, polynomial approximations and series, and parametric, polar and vector functions applications. Students taking this course will be required to have a graphing calculator (TI 84 preferred). The curriculum is aligned to the College Board guidelines, with actual AP questions used as a guide. This course prepares the student to take the AP Calculus BC exam in May. A score will be received for the AP Calculus BC exam as well as a score for the AP Calculus AB exam. A student may be rewarded one or two semesters of college credit based on their exam score. Credit is rewarded at the discretion of the college. This course is double-blocked and meets daily.

AP Statistics (M2570A and M2570B)
2 semesters, 2 credits
Quantitative Reasoning Course
***Recommended*: Algebra II Honors**
This course is a more in-depth study of statistics to prepare the student to take the AP exam in May. The curriculum is aligned to the College Board guidelines. This includes four major themes: exploratory analysis, planning and conducting a study, probability, and statistical inference. The use of computer software and graphing calculator technology will be an integral part of the course. Students taking this course will be required to have a TI-83, TI-83+ or TI-84 graphing calculator.

Calculus II Honors, Dual Credit (M2544D and M2544E) and Calc Lab (M2560C and M2560D)
2 semesters 4 credits
Dual Credit: MA 16400 PNW
Required: MA 15300 and MA 15400 PNW, or 3 or better on the AP Precalculus exam
Introduces the topics of differential and integral calculus of a single variable. Major topics to be covered: limits and continuity, derivative formulas, detailed graphing and analysis of functions, applications of calculus concepts to real- world story problems, integration formulas, area under a curve, volume of solids, and trigonometric, exponential, and logarithmic applications. In addition, this course moves into advanced integration techniques, solving logistic differential equations, polynomial approximations and series, and parametric polar and vector functions applications. Students taking this course will be required to have a graphing calculator (TI 84 preferred). This course is double-blocked and meets daily. This course may meet with AP Calculus BC.

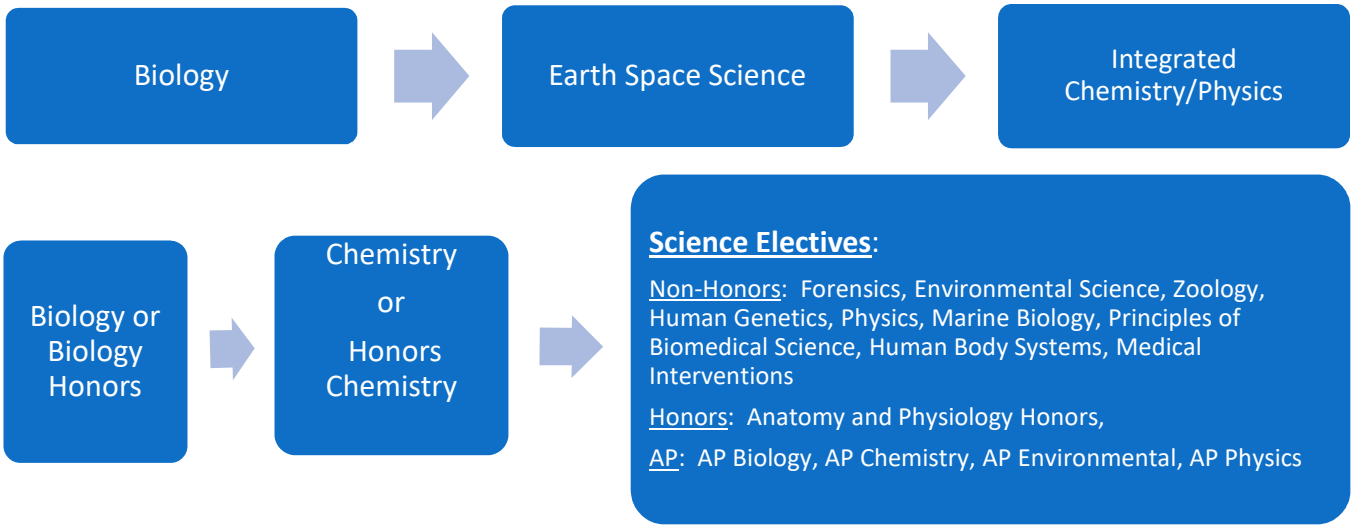
Probability and Statistics (M25460)
1 semester, 1 credit
This course is offered as Dual Credit STAT 301 PNW
***Recommended*: Algebra II**
Dual Credit Requirement: Students must take Pre-Calculus Dual Credit (MA 15300) in the fall and earn a C or better grade to be eligible to take Probability and Statistics Dual Credit in the spring.
This course is intended for students who desire a mathematics course which applies statistical techniques and probability in decision-making process. Topics include methods of data collection, organization of data, presentation and graphing of data, hypothesis testing, making inferences from experimental data, descriptive analysis, probability, and probability distributions. Practical examples based on real experimental data, experiments, surveys, and the analysis of the resulting data are stressed. The course may be taken concurrently with Pre-Calculus/Trig or Calculus.

PRIME Math (M2595A and M2595B)
2 semesters, 2 credits
Required Prerequisites: Algebra II, Analytical Algebra II
Fulfills a Mathematics course requirement for all diplomas

The PRIME Math course utilizes a curriculum developed by the Southern Regional Education Board (SREB) that includes and reinforces the Algebra I, Geometry, Algebra II, and Statistics skills necessary for postsecondary success. This course emphasizes understanding of math concepts rather than just memorizing procedures. PRIME math emphasizes students' reasoning and sense making about procedures (e.g. why to use a certain formula or method to solve a problem). This equips them with higher-order thinking skills in order to apply math skills, functions, and concepts in different situations. The course is intended for students who currently have achieved the minimum math requirement at the secondary level, but need additional experiences to enhance their mathematical knowledge before pursuing credit-bearing courses at a postsecondary institution.

SCIENCE

SCIENCE *Course Sequencing*



ACP= Advanced College Project

Biology I (S3024A and S3024B)
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 and S3024I)
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.

Chemistry I (S30640A and S3064B)
2 semesters, 2 credits
Quantitative Reasoning Course
***Recommended*: Biology I and a B or better in Algebra I**
Concurrent Enrollment: Geometry or Algebra II
Chemistry I is a Core 40 class and deals with topics such as matter, atomic structure, chemical bonding, radioactivity, chemical composition, reactions, behavior of gases and acids/bases. Laboratory experiments reinforce concepts and principles discussed in the classroom. Mathematical principles and problem solving skills are applied to many concepts. Students must have a strong mathematical foundation to be successful in this course. This course will provide the student with an adequate background for enrollment in college level chemistry.

Chemistry I Honors (ACP) (S3064D and S3064E)
2 semesters, 2 credits
Dual credit optional: C101 and C121 at Indiana University
Quantitative Reasoning Course
***Recommended*: Biology I Honors, Algebra I, and Geometry with grades of B or better**
Concurrent Enrollment: Algebra II
Chemistry I Honors is a Core 40 class and includes the topics covered in Chemistry I but to a greater depth. The course is conducted at an elevated pace, and students are expected to have a strong command of mathematical problem solving skills. This course is intended for the college bound student who plans to major in the sciences and needs a strong background in chemistry. Dual Credit has a prerequisite of Algebra I. Students must have done well in Algebra I to be successful. Chemistry has a very strong foundation in mathematical practices.

Chemistry I Honors (S3064H and S3064I)
2 semesters, 2 credits
Quantitative Reasoning Course
***Recommended*: Biology I Honors, Algebra I, and Geometry with grades of B or better**
Concurrent Enrollment: Algebra II
Chemistry I Honors is a Core 40 class and includes the topics covered in Chemistry I but to a greater depth. The course is conducted at an elevated pace, and students are expected to have a strong command of mathematical problem solving skills. This course is intended for the college bound student who plans to major in the sciences and needs a strong background in chemistry. Dual Credit has a prerequisite of Algebra I. Students must have done well in Algebra I to be successful. Chemistry has a very strong foundation in mathematical practices.

AP Biology (S3020A and S3020B)
2 semesters, 2 credits
Quantitative Reasoning Course
***Recommended*: Biology I Honors and Algebra I Honors with grades of B or better, Honors Chemistry with grade B or better and Concurrent Enrollment in Algebra II Honors or higher**
Minimal Concurrent Enrollment: Chemistry Honors and Geometry Honors (for Sophomores)
Advanced Placement Biology is a rigorous course equivalent to first-year college biology. College credit may be earned by passing the AP Biology exam with a score of 3, 4, or 5. The course builds on topics covered in Biology and adds more in-depth study of the biochemical aspects of biology, as well as topics in population biology and ecology. AP Biology is conducted at an elevated pace requiring additional classroom time. Students are expected to have strong mathematical skills and work ethic. This course is intended for the

college bound student who plans to major in the sciences and needs a strong background in biology. Such students are typically considering exploring a career that requires acceptance into a graduate level professional college, such as medical, veterinary or dental school. Students will complete a test in May that may be used by colleges to award credit in college level biology. The exam is one that may be covered by the State of Indiana***. This course includes hands-on laboratory work that includes dissections of preserved specimens.***

AP Chemistry (S3060A and S3060B)
2 semesters, 4 credits
Quantitative Reasoning Course
Recommended: Chemistry Honors with a grade of B or better or teacher recommendation from Chemistry; B or better in Algebra II Honors
Concurrent Enrollment: Pre-Calculus/Trig Honors or AP Calculus
Advanced Placement Chemistry is a rigorous, calculation-based, lab-intensive course equivalent to first-year college chemistry. College credit may be earned by passing the AP Chemistry exam with a 4 or 5. This course builds on topics covered in Chemistry and adds solutions, equilibrium, kinetics, thermodynamics, organic chemistry, and chemical reactivity. AP Chemistry is conducted at an elevated pace requiring additional classroom time. Students are expected to have strong mathematical skills and work ethic. This course is intended for the college bound student who plans to major in the sciences and needs a strong background in chemistry. Students will complete a test in May that may be used by colleges to award credit in college level chemistry. This exam is typically paid for by the state of Indiana. This course is double-blocked and meets for two consecutive periods. A strong foundation in math is required to be successful.

AP Environmental Science (S3012A and S3012B)
2 semesters, 2 credits
Quantitative Reasoning Course
***Recommended Prerequisites*: Recommended B or better in Biology and Chemistry and Algebra I at a minimum; B or better in AP Human Geography**
Environmental Science, Advanced Placement is a course based on content established by the College Board. Students enrolled in AP Environmental Science investigate the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. Environmental science is interdisciplinary; it embraces a wide variety of topics from different areas of study, yet there are several major unifying constructs, or themes, that cut across the many topics included in the study of environmental science. Students will complete a test in May that may be used by colleges to award credit in college level environmental science. This exam is typically paid for by the state of Indiana. It is expected that students will take the test. Those earning a 3,4, or 5 have an opportunity to get college credit. A strong foundation in Algebra is highly recommended. This course has required summer work.

Environmental Science (S3010A and S3010B)
1 semester, 1 credit
Quantitative Reasoning Course
***Recommended*: Biology and Chemistry**
Environmental Science is an elective that should be taken by any student that has successfully passed biology and chemistry. Any 10th grade student interested in taking this course should talk to their current science instructor for a recommendation to take this class. This class has many labs, projects, and uses technology in a variety of ways. Students are expected to read many scientific articles and research a variety of environmental issues and topics and be able to discuss their findings. This course uses knowledge from many scientific disciplines and ties it to how humans influence the environment.

AP Physics 1: Algebra-Based (S3080A and S3080B)
2 semesters, 2 credits
Quantitative Reasoning Course
***Prerequisite*: B or better in Algebra II Honors, and concurrent with AP Precalculus or Honors Precalculus and Honors Trigonometry**
AP Physics 1 is the equivalent of a first-semester college course in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; mechanical waves and sound. It also introduces electric circuits. The course will prepare students for taking the College Board Entrance Examination tests, Physics 1. It is also a college preparatory course intended for future science and/or engineering majors. The content covered in this course will mirror content discussed in the first semester of most college Physics courses. Students are strongly encouraged to take the AP Physics 1 exam in May. A strong background in algebraic math is required to be successful. This course has required summer work.

Earth & Space Science (S3044A and S3044B)
2 semesters, 2 credits
Earth and Space Science I is a course focused on the following core topics: study of the earth's layers; atmosphere and hydrosphere; structure and scale of the universe; the solar system and earth processes. Students analyze and describe earth's interconnected systems and examine how earth's materials, landforms, and continents are modified across geological time. Instruction should focus on developing student understanding that scientific knowledge is gained from observation of natural phenomena and experimentation by designing and conducting investigations guided by theory and by evaluating and communicating the results of those investigations according to accepted procedures. This course is designed to support sophomore students with limited math skills and will transition students into Integrated Chem/Physics (ICP) their junior year. Please note that this course is not recognized as a lab science by Purdue University West Lafayette or Indiana University Bloomington. Students needing a lab science credit will need to enroll in an approved alternative.

Forensic Science: Advanced Science, Special Topics (S3092F)
1 semester, 1 credit
***Recommended*: Biology, Chemistry I, Algebra I and Geometry with grades of C or better**
This course will serve as an introduction to forensics and will bring together all of the above sciences and math course topics by giving students the opportunity to apply their knowledge base to real world situations. Students will use hands-on-lab experiments and case studies to investigate many aspects of crime scene analysis including searching a crime scene, evidence recording and collection, serology and blood spatter analysis, trace hair and fiber analysis, fingerprint analysis, DNA profiling, and other fields of forensics. Guest speakers in this field will give students a feel for the career opportunities that this area of study provides.

Human Genetics: Advanced Science (S3092H)
1 semester, 1 credit
***Recommended*: Biology and Algebra I (Grades of B or better recommended)**
This course will explore topics in cell division, development, transmission genetics, molecular genetics, mutation, cancer, genomics, biotechnology, population genetics, and evolution. Moral and ethical issues surrounding new technology will be addressed. Course activities include power point lectures, lab activities, video presentations, demonstrations, simulations, and student projects.

Integrated Chemistry-Physics (S3108A and S3108B)
2 semesters, 2 credits
Quantitative Reasoning Course
***Recommended*: Biology I and Algebra I with at least a D**
Integrated Chemistry-Physics is a Core 40 course intended for the student planning to attend a technical school or college with intent to major in a non-science area. This course is intended for students who are not going to take, or are not yet ready, for Chemistry I. All concept material is reinforced through a hands-on laboratory exercise or activity to model skills that the students will need to apply moving forward. Instruction should focus on developing student understanding that scientific knowledge is gained from observation of natural phenomena and experimentation by designing and conducting investigations guided by theory and by evaluating and communicating the results of those investigations according to accepted procedures. The following core topics: motion and energy of macroscopic objects; chemical, electrical, mechanical and nuclear energy; properties of matter; transport of energy; bonding; reactions; magnetism; energy production and its relationship to the environment and economy.

Marine Biology I: Advanced Science, Special Topics – SUMMER COURSE (S3092M)
1 semester, 1 credit
***Recommended*: Biology I or Biology I Honors, Incoming 10, 11 & 12**
Approximately 18+ hours of classroom instruction will take place two weeks before the trip to Marine Lab. Approximately 70+ hours will be spent in laboratory and other learning situations during the six-day trip to Marine Lab in Florida. Students must see Mr. J. Correa and fill out an application form in order to be considered for this course.

Physics I (S3084A and S3084B)
2 semesters, 2 credits
Quantitative Reasoning Course
***Recommended*: Algebra I, Algebra II, and Chem I or Chem I Honors with a B or better**
Concurrent enrollment: Precalculus/Trig
This course offers a conceptual and mathematical approach to all aspects of physics. Problem solving skills will be utilized during the course. It includes the study of vectors, mechanics, heat, light, sound, electricity, and magnetism. This course is highly recommended for college bound students who plan to major in a science related area. Students must have a strong background in mathematics to be successful in this course.

Zoology: Advanced Science, Special Topics (S3092Z)
1 semester, 1 credit
***Recommended*: Biology with grade of B or better**
This course will include an overview of the various groups of organisms within the vertebrate phylum of the animal kingdom and will take a comparative anatomy approach to illustrate the differences between major groups within the kingdom. Students will learn lab skills by dissecting representative organisms throughout the course and will complete a research project regarding an endangered species or a specific animal. A strong background in biology is expected as students will build on previously covered life science topics. Due to the extensive amount of time spent in lab activities, students will need to have demonstrated the ability to work on their own in a responsible manner in a lab setting during prior Science Dept. courses. ***This course includes hands-on laboratory work that includes dissections of preserved specimens.***

Principles of Biomedical Science- PLTW (S5218A and S5218B)
2 semesters, 2 credits
***Required*: Biology I**
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 includes hands-on laboratory work that includes dissections of preserved specimens.* **This course is part of the Biomedical Sciences and Technology Pathway.**

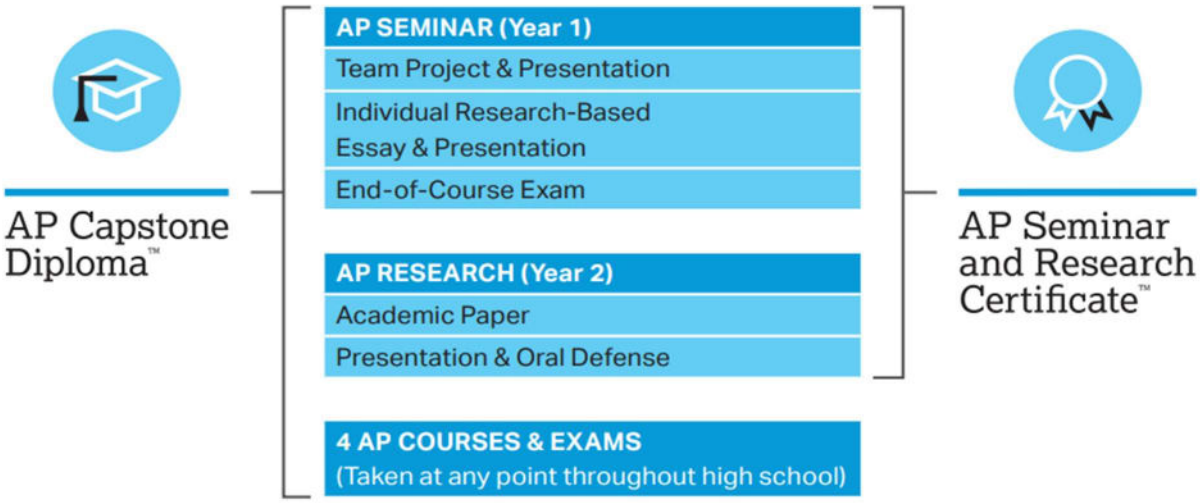
Human Body Systems- PLTW (S5216A and S5216B)
2 semesters, 2 credits
***Required*: Principle of Biomedical Science, Integrated Chemistry Physics or Chemistry with a C or better**
PLTW Human Body Systems is a course designed to engage students in the study of basic human physiology and the care and maintenance required to support the complex systems. Using a focus on human health, students will employ a variety of monitors to examine body systems (respiratory, circulatory and nervous) at rest and under stress, and observe the interactions between the various body systems. Student use appropriate software to design and build systems to monitor body functions. *This course includes hands-on laboratory work that includes dissections of preserved specimens.* **This course is part of the Biomedical Sciences and Technology Pathway**

Medical Interventions- PLTW (S5217A and S5217B)
2 semesters, 2 credits
***Required*: Principle of Biomedical Science, Integrated Chemistry Physics or Chemistry with a C or better**
PLTW Medical Interventions is a course that studies medical practices including interventions to support humans in treating disease and maintaining health. Using a project-based learning approach, students will investigate various medical interventions that extend and improve quality of life, including gene therapy, pharmacology, surgery, prosthetics, rehabilitation, and supportive care. Students will also study the design and development of various interventions. Lessons will cover the history of organ transplants and gene therapy with additional reading from current scientific literature addressing cutting edge developments. *This course includes hands-on laboratory work that includes dissections of preserved specimens.* **This course is part of the Biomedical Sciences and Technology Pathway.**

Anatomy & Physiology Honors (ACP) (S5276H and S5276I)
2 semesters, 2 credits
Dual Credit: Bio P130/N213 Indiana University Bloomington
***Recommended*: Biology and Chemistry (grades of B or better recommended for all classes)**
This course is an in-depth study of the human body in anatomy (structure) and physiology (function). All of the major body systems will be covered, as well as pathological conditions that can affect them. Classroom work is supplemented with laboratory exercises encompassing both analysis and dissections, including dissections of rats, fetal pigs, and various body organs. The course will be beneficial to those students who will need to take anatomy as a prerequisite for acceptance into a graduate level program or as a requirement for a degree in healthcare or medical field such as nursing, allied health, physical therapy, medicine or dentistry. Juniors and Seniors may be eligible to earn 5 college credits by taking this course. (P130 Human Biology – 4 credits and N213 Human Biology Lab – 1 credit). *This course includes hands-on laboratory work that includes dissections of preserved specimens.*

INTERDISCIPLINARY – AP CAPSTONE

AP Capstone™ is a diploma program from the College Board based on two yearlong AP courses: AP Seminar and AP Research.
Rather than teaching subject-specific content, these courses develop students' skills in research, analysis, evidence-based arguments, collaboration, writing, and presenting. Students who complete the two-year program can earn one of two different AP Capstone awards, which are valued by colleges across the United States and around the world. Students who earn scores of 3 or higher in AP Seminar and AP Research and on four additional AP Exams of their choosing receive the AP Capstone Diploma. Students who earn scores of 3 or higher in AP Seminar and AP Research but not on four additional AP Exams receive the AP Seminar and Research Certificate.



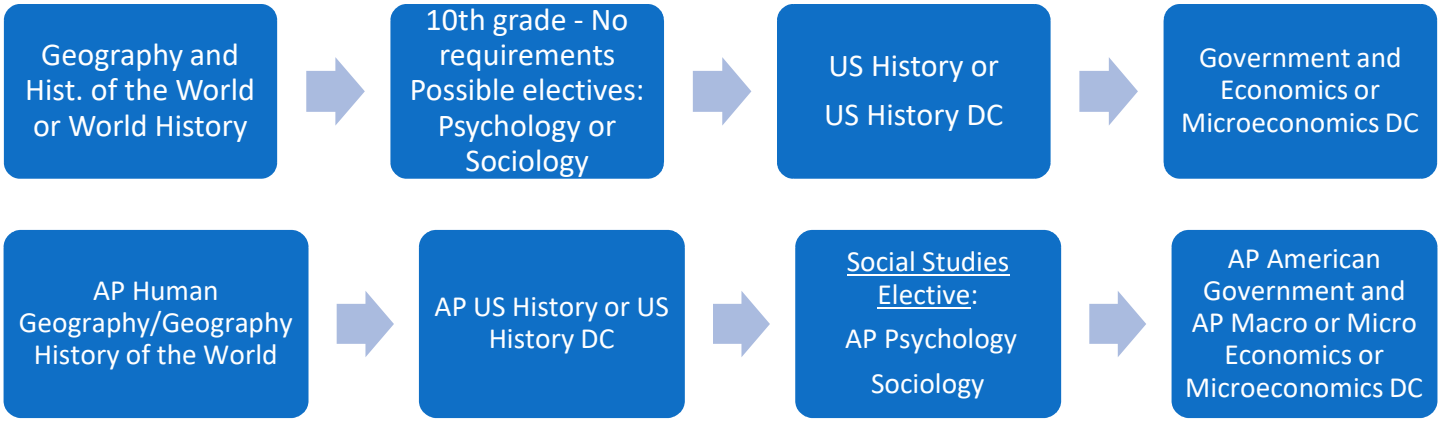
AP Seminar (I0552A and I0552B)
2 semesters, 2 credits
Project Based Learning Course, Grade 10-12, Grade 11 recommended
***Recommended*: None**

AP Seminar is an interdisciplinary class based on student-led inquiry. Students will choose to pursue real-world topics and complex issues inspired by their own interests and passions, and will conduct research on those interests. The College Board requires students to analyze multiple perspectives, AP Seminar is the first required course that students may take to qualify for the prestigious AP Capstone Diploma. According to the College Board, "Ultimately, [AP Seminar] aims to equip students with the power to analyze and evaluate information with accuracy and precision in order to craft and communicate evidence-based arguments." Therefore, AP Seminar is a good starting point for anyone interested in the kind of high-level thinking required of college-bound students. This course counts as an Elective for all diploma types. Students are expected to register for the AP Seminar Exam in May.

AP Research (I0551A and I0551B)
2 semesters, 2 credits
Project Based Learning Course, Grade 11, 12
***Required*: AP Seminar**
AP Research is the second year foundational interdisciplinary course that is unique to the AP Capstone diploma program. AP Research allows students to deeply explore an academic topic, problem, or issue of individual interest. Through this exploration, students design, plan and conduct a yearlong research based investigation to address a research question. In the AP Research course, students further their skills acquired in the AP Seminar course by understanding research methodology; employing ethical research practices; and accessing, analyzing, and synthesizing information as they address a research question. Students explore their skill development, document their process, and curate the artifacts of the development of their scholarly work in a portfolio. The course culminates in an academic paper of approximately 4000-5000 words (accompanied by a performance or exhibition of product where applicable) and a presentation with an oral defense. This course counts as an Elective for all diploma types. Students are expected to register for the AP Seminar Exam in May.

SOCIAL STUDIES

SOCIAL STUDIES *Course Sequencing*



Geography History of the World (H1570A and H1570B)
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 (H1572A and H1572B/H1570P and H1570Q
2 semesters, 4 credits
***Recommended*: B in English**
Advanced Placement Human Geography 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 who have not yet earned credit for Geography/History of the World will have the opportunity to earn a total of 4 credits. (2 credits for AP Human Geography and 2 credits 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 in 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.

U.S. Government (H15400)
1 semester, 1 credit
***Recommended*: U.S. History**
U.S. Government is the study of the American governmental system. Students who take this class will gain a better understanding of the Constitution, the three branches of the U.S. Government, and the election process at the state and federal levels. Emphasis is placed on the federal government and current national events. This class is required for graduation

AP U.S. Government and Politics (H15600)
1 semester, 1 credit
***Recommended*: U.S. History**
This course is the most advanced study of the American governmental system offered at Lake Central. Students will participate in an in-depth analysis of the integral parts of the American form of democracy through research, group discussions, projects, and critical-thinking exercises. Outside reading assignments will supplement the textbook and exams will be modeled after the AP U.S. Government and Politics Examination. This class satisfies the state and school corporation requirements for U.S. Government.

U.S. History (H1542A and H1542B) Or U.S. History Dual Credit (H1542D and H1542E)
2 semesters, 2 credits
Dual Credit: HIST 151 and HIST152 Purdue University Northwest (6 credits)
U.S. History is the study of the United States from the 1850s to today. Emphasis is given to twentieth century events and policies as well as their consequences. This class is required for graduation and must be taken during the junior year. Juniors and Seniors may be eligible to take this course as dual credit through Purdue University Northwest and earn college credit while satisfying the Indiana state requirements. For the U.S. History Dual Credit, the student must have a 2.50 or above GPA.

AP U.S. History (H1562A and H1562B)
2 semesters, 2 credits
***Recommended*: AP Human Geog. and/or World History with a B in English**
AP U.S. History is a survey course that rigorously explores the major themes in American history from the colonial era to the present. DBQ (document-based question) tests are given to prepare students for the College Board AP exam in May. This course challenges and develops a student's research, discussion, analytical, and self-directed learning skills. AP U.S. History meets corporation and state standards, as well as following the expectations of the College Board Advanced Placement program. This course has required summer work.

Economics (H15140)
1 semester, 1 credit
Quantitative Reasoning Course
***Recommended*: U.S. History**
Economics is the study of the allocation of limited resources among unlimited needs. In this class, students will study different economic ideologies and their goals, prices, taxes, international trade, and the basics of investing. This course is required for graduation and is recommended to be taken during senior year.

AP Macroeconomics (H15640)
1 semester, 1 credit
Quantitative Reasoning Course
***Recommended*: AP U.S. History**
Students will study macroeconomic concepts and principles throughout the semester in preparation for the College Board's Advanced Placement Examination. This course covers economic concepts that apply to the economic system as a whole. Students will learn how a nation's economic performance is measured and evaluated. Primary emphasis will be in the areas of national performance indicators, such as inflation, employment, GDP and the Fed. Issues of international trade and comparative economic systems will also be examined.

AP Microeconomics (H15660)
1 semester, 1 credit
Quantitative Reasoning Course
***Recommended*: AP U.S. History**
Students will study microeconomic concepts and principles throughout the semester in preparation for the College Board's Advanced Placement Examination. This course covers many concepts that apply to individual consumers and firms. The primary emphasis of study will focus on the product market (supply and demand) and the factors market. The government's role in promoting competition and fairness in the market will also be examined. Economic graphs will be constantly examined and applied to concepts explained in this course.

Microeconomics- DC (H1574)
1 semester, 1 credit
Quantitative Reasoning Course
***Recommended*: Dual Credit or AP U.S. History**
Dual Credit PNW Econ 25100 3 Credits
Students will study microeconomic concepts and principles. This course covers many concepts that apply to individual consumers and firms. The primary emphasis of study will focus on the product market (supply and demand) and the factors market. The government's role in promoting competition and fairness in the market will also be examined. Economic graphs will be constantly examined and applied to concepts explained in this course. Juniors and Seniors may be eligible to take this course as Dual Credit through Purdue University Northwest and earn college credit while satisfying the Indiana state requirements. For Microeconomics Dual Credit, the student must have a 2.50 or above GPA.

Psychology (H15320)
1 semester, 1 credit
Psychology is the study of human behavior. Students who take this class will gain a better understanding of their own behavior and develop insight into the behavior of others. This course is an introduction to psychology and will provide background that will be useful in college-level courses.

AP Psychology (H1558A and H1558B)
2 semesters, 2 credits
Advanced Placement Psychology is the most advanced study of psychology offered at Lake Central High School. The course is designed for students who want to prepare for the AP Psychology exam. Students will learn many psychological facts, principles, and phenomena associated with each of the major subfields within the study of psychology through research, group discussions, projects, and critical-thinking exercises. Students are to expect a heavy load of reading and writing. This course will meet the state and corporation requirements and follow the expectations of the College Board and Advanced Placement programs.

Sociology (H15340)
1 semester, 1 credit
Sociology is the study of human groups. Emphasis is placed on basic concepts used in sociological study as well as the nature of society, culture, social problems, and various social institutions such as the family, education, and religion. Although this is an elective course it requires participation in class discussion, activities, and students are expected to read the textbook. This course is an introduction to sociology and will provide background that will be useful in college-level courses.

Preparing for College and Careers (H53940)
1 credit, 1 semester
Graduation requirement for the class of 2029 and beyond.
Preparing for College and Careers addresses the knowledge, skills, and behaviors all students need to be prepared for success in college, career, and life. The focus of the course is the impact of today's choices on tomorrow's possibilities. Topics to be addressed include twenty-first century life and career skills; higher order thinking, communication, leadership, and management processes; exploration of personal aptitudes, interests, values, and goals; examining multiple life roles and responsibilities as individuals and family members; planning and building employability skills; transferring school skills to life and work; and managing personal resources. This course includes reviewing the 16 national career clusters and Indiana's College and Career Pathways., in-depth investigation of one or more pathways, reviewing graduation plans, developing career plans, and developing personal and career portfolios. A project based approach including computer and technology applications, cooperative ventures between school and community, simulations, and real world experiences is recommended.

WORLD LANGUAGES

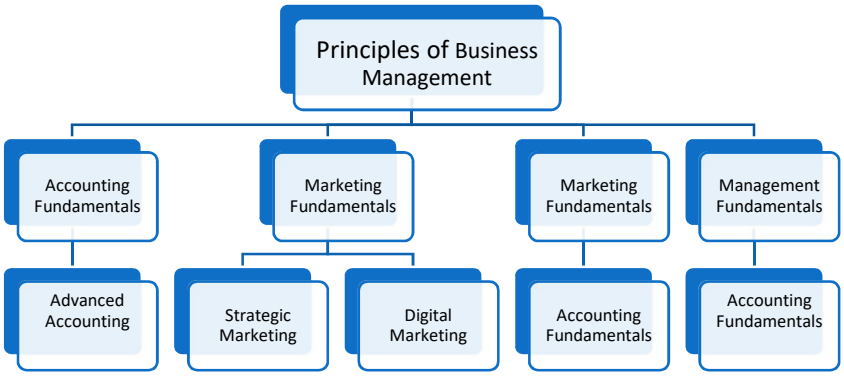
Level 1 World Languages
French I (F2020A and F2020B), German I (F2040A and F2040B), Spanish I (F2120A and F2120B)
2 semesters, 2 credits
Recommended Prerequisite: C or better in previous English course
Level 1 World Language courses are based on Indiana's Academic Standards for World Languages. They 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.

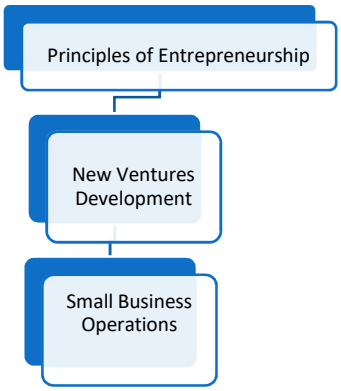
Level 2 World Languages
French II (F2022A and F2022B), German II (F2042A and F2042B), Spanish II (F2122A and F2122B)
2 semesters, 2 credits
Recommended Prerequisite: C or better in Level 1 World Language
Level 2 World Language courses, based on Indiana's Academic Standards for World Languages, build upon effective strategies for language learning by encouraging the use of the language and cultural understanding for self-directed purposes. These courses encourage interpersonal communication through speaking and writing, and emphasize the development of reading and listening comprehension skills. Students will address the presentational mode by presenting prepared material on a variety of topics. Additionally, students will describe 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.

Level 3 World Languages
French III Honors (F2024A and F2024B), German III Honors (F2044H and F2044I), Spanish III Honors (F2124H and F2124I) Spanish III (F2124A and F2124B)
2 semesters, 2 credits
Recommended Prerequisite: C or better Level 2 World Language
Required Prerequisite for Honors: Level 2 World language grade B or better, or teacher recommendation
Level 3 World Language courses, based on Indiana's Academic Standards for World Languages, build upon effective strategies for language learning by facilitating the use of the language and cultural understanding for self-directed purposes. These courses encourage interpersonal communication through speaking and writing, and emphasize the continued development of reading and listening comprehension skills. Students will address the presentational mode by presenting student-created material on a variety of topics. Additionally, students will continue to develop understanding of the target culture through recognition of the interrelations among the practices, products, and perspectives of the target culture; discussion of significant events in the target culture; and investigation of elements that shape cultural identity in the target culture. This course further emphasizes making connections across content areas, as well as the application of understanding the target language and culture outside of the classroom. Honors level courses are more rigorous than regular level courses. Spanish III Honors will have required summer work.

Level 4 World Languages
German IV Honors (F2046H and F2046I), Spanish IV Honors (F2126H and F2126I)
2 semesters, 2 credits
Recommended Prerequisite: C or better Level 3 World Language
Required Prerequisite for Honors: Level 3 World language grade B or better, or teacher recommendation
Level 4 World Language Courses are based on Indiana's Academic Standards for World Languages. These courses provide a context for integration of the continued development of language skills and cultural understanding with other content areas and the community beyond the classroom. The skill sets that apply to the exchange of written and oral information are expanded through emphasis on practicing speaking and listening strategies that facilitate communication. Additionally, students will continue to develop understanding of the target culture through explaining factors that influence the practices, products, and perspectives of the target culture. This course further emphasizes making connections across content areas through the design of activities and materials that integrate the target language and culture with concepts and skills from other content areas. The use and influence of the target language and culture in the community beyond the classroom is explored through the identification and evaluation of resources intended for native speakers. Honors level courses are more rigorous than regular level courses. Spanish IV Honors has summer enrichment activities available.

BUSINESS





CTE= Career and Technical Education

Personal Financial Responsibility (B45400)
1 semester, 1 credit GRADUATION REQUIREMENT
Course taken Junior Year or Senior Year if the student needs a Quantitative Reasoning Course
Personal Financial Responsibility addresses the identification and management of personal financial resources to meet the financial needs and wants of individuals and families, considering a broad range of economic, social, cultural, technological, environmental, and maintenance factors. This course helps students build skills in financial responsibility and decision making; analyze personal standards, needs, wants, and goals; identify sources of income, savings, and investing; understand banking, budgeting, record-keeping and managing risk, insurance and credit card debt.

Principles of Business Management (B4562A and B4562B)
2 semesters, 2 credits
***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 course is part of Business Administration Pathway, Accounting Pathway, and Marketing and Sales Pathway. Students wishing to take this for Dual Credit should sign up for the Dual Credit course (B24562D). **This is a CTE course, for funding and employment follow-up; the student's social security number will be needed.**

Principles of Business Management Dual Credit (B4562D and B4562E)
2 semesters, 2 credits
Dual Credit: BSN 101 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 course is part of Business Administration Pathway, Accounting Pathway, and Marketing and Sales Pathway. **This is a CTE course, for funding and employment follow-up; the student's social security number will be needed.**

AP Business with Personal Finance (B4519A and B4519B)
2 semesters, 2 credits
Required: Algebra I
Project Based Learning course
AP Business with Personal Finance is an introductory, college level business and personal finance course. Students explore the business disciplines of entrepreneurship, marketing, finance, accounting, and management through real-world business application, case studies, and project based learning. In addition, students learn and apply all the National Standards for Personal Financial Education created by the Council for Economic Education and the Jump$tart Coalition for Personal Financial Literacy.

Accounting Fundamentals (B4524A and B4524B)
2 semesters, 2 credits
Project Based Learning and Service Based Learning course
Students learn skills that can be used to obtain entry-level jobs or to start one's own business, such as tax preparation, record keeping, bank reconciliation, computer data entry, and payroll preparation. The course can also be used as a stepping stone toward securing a career in accounting, investing, or any major in business. Any student planning to major in business in college is highly recommended to complete at least one year of accounting. This course is part of the Accounting Pathway and the Business Administration Pathway. **This is a CTE course, for funding and employment follow-up; the student's social security number will be needed.**

Advanced Accounting (B4522A and B4522B)
2 semesters, 2 credits
Quantitative Reasoning Course
Project Based Learning, Service Based Learning, Work Based Learning course
***Recommended*: Accounting Fundamentals**
Advanced Accounting expands on the Generally Accepted Accounting Principles (GAAP) and procedures for proprietorships and partnerships using double-entry accounting covered in introduction to Accounting. Emphasis on accounting principles as they relate to both manual and automated financial systems. This course involves understanding, analyzing, and recording business transactions and preparing, analyzing, and interpreting financial reports as a basis for decision-making. Students are required to take Accounting Fundamentals prior to enrollment in this course. This course is not eligible for the honors weighted grade point. This course is part of the Accounting Pathway. **This is a CTE course, for funding and employment follow-up; the student's social security number will be needed.**

Digital Applications and Responsibility (B45280)
1 semester, 1 credit
Dual Credit: CINS 101 Ivy Tech
In today's technology-driven world, digital literacy is essential for success in any field, especially in business. Whether you aspire to pursue higher education in business or dream of launching your own venture, the Digital Applications course equips you with the skills necessary to navigate the digital landscape with confidence.
This comprehensive course empowers you to develop real-world, outcome-driven skills in digital citizenship, basic computer operations, keyboarding, application software, and career exploration. You'll gain proficiency in word processing, spreadsheets, multimedia applications, and databases – tools that are indispensable for effective communication, data analysis, and creative expression in the business world.
The skills you acquire in Digital Applications extend beyond the classroom, seamlessly integrating with your studies across the curriculum. This course prepares you for the demands of 21st-century education and beyond, ensuring you have the foundation to thrive in a rapidly evolving digital landscape. **This is a CTE course, for funding and employment follow-up; the student's social security number will be needed.**

Computing Foundations for a Digital Age (B45650)
1 Semester, 1 Credit
Graduation Requirement for the class of 2029 and beyond.
Computers and the internet have revolutionized the way we access and disseminate information. As technology continues to change at an ever-increasing pace, the need for students to gain a foundational understanding of computer science is clear. Computing Foundations for a Digital Age is designed to introduce students to five major topics within computer science including computing systems, networks and the internet, data and analysis, algorithms and planning, and impacts of computing. The course introduces foundational computing concepts while exploring current events and building critical thinking, collaboration, problem solving, and other important skills that are invaluable for life in a global and technologically advancing society.

Principles of Entrepreneurship (B7154A and B7154B)
2 semesters, 2 credits - Project Based Learning Course
Dual Credit: Ivy Tech
***Recommended*: None**
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 course is part of the Entrepreneurship Pathway. **This is a CTE course, for funding and employment follow-up; the student's social security number will be needed.**

New Ventures Development (B7148A and B7148B)
2 semesters, 2 credits- Project Based Learning Course
Dual Credit: Ivy Tech
Required Prerequisite: 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 course is part of the Entrepreneurship Pathway. **This is a CTE course, for funding and employment follow-up; the student's social security number will be needed.**

Small Business Operation (B7147A and B7147B)
2 semesters, 2 credits- Project Based Learning Course
Dual Credit: Ivy Tech
Required Prerequisite: Principles of Entrepreneurship and New Ventures Development
Small Business Operations will help students identify and evaluate the various sources available for funding a new enterprise; demonstrate an understanding of financial terminology; read, prepare, and analyze basic financial statements; estimating capital requirements and risk, exit strategies; and prepare a budget for their business, including taxes and personnel costs. In addition, the student should be able to explain the importance of working capital and cash management. The student should also be able to identify financing needs and prepare sales forecasts. This course is part of the Entrepreneurship Pathway. **This is a CTE course, for funding and employment follow-up; the student's social security number will be needed.**

Marketing Fundamentals (B5914A and B5914B)
2 semesters, 2 credits
Required Prerequisite: Principles of Business Management
Want to be a better consumer and learn the fundamentals of marketing? In Marketing Fundamentals, you can do both! The areas of product development, branding, merchandising, and consumer satisfaction are integral parts of the curriculum. Student activities include: package design, logo creation, sampling, multimedia advertisement design and creation, and improved consumer awareness. This course is part of the Business Administration Pathway and the Marketing and Sales Pathway. **This is a CTE course, for funding and employment follow-up; the student's social security number will be needed.**

Management Fundamentals (B7143A and B7143B)
Dual Credit: Ivy Tech
2 semesters, 2 credits
Required Prerequisite: Principles of Business Management
Management Fundamentals describes the functions of managers, including the management of activities and personnel. Describes the judicial system and the nature and source of law affecting business. Studies contracts, sales contracts with emphasis on the Uniform Commercial Code Applications, remedies for breach of contract and tort liabilities. Examines legal aspects of property ownership, structures of business ownership, and agency relationships. **This is a CTE course, for funding and employment follow-up; the student's social security number will be needed.**

Strategic Marketing (B5918A and B5918B)
2 semesters, 2 credits
Required Prerequisites: Principles of Business Management and Marketing Fundamentals
Strategic Marketing builds upon the foundation of marketing and applies the functions of marketing at an advanced level, Students will study the basic principles of consumer behavior and examine the application of theories from psychology, social psychology, social media and economics. The relationship between consumer behavior and marketing activities is reviewed. This course is part of the Sales and Marketing Pathway. **This is a CTE course, for funding and employment follow-up; the student's social security number will be needed.**

Digital Marketing (B7145A and B7145B)
2 semesters, 2 credits
Required: Principles of Business Management, Marketing Fundamentals
Digital Marketing provides an introduction to the world of e-commerce and digital marketing media. The course covers how to integrate digital media and e-commerce into organizational and marketing strategy. Students will explore e-commerce applications and the most popular digital marketing tactics and tools. Emphasizes familiarity with executing digital media, understanding the marketing objectives that digital media can help organizations achieve, and establishing and enhancing an organization's digital marketing presence. **This is a CTE course, for funding and employment follow-up; the student's social security number will be needed.**

Principles of Computing (B7183A and B7183B) and AP Computer Science Principles (B4575A and B4575B)
2 semesters, 4 credit
Dual Credit: Indiana University, Bloomington
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. **AP Computer Science Principles** introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. With a unique focus on creative problem solving and real-world applications, AP Computer Science Principles prepares students for college and careers. This course is part of the Computer Science Pathway. **This is a CTE course, for funding and employment follow-up; the student's social security number will be needed.**
***For student registration purposes, students will register for Principles of Computing. The AP Computer Science Principles course will be added before the school year begins. ***

Topics in Computer Science (B7351A and B7351B)
2 semesters, 2 credits
***Required*: Principles of Computing/AP Computer Science Principles**
Recommended: Algebra I
Topics in Computer Science is designed for students to investigate emerging disciplines within the field of computer science. Students will use foundational knowledge from Principles of Computing to study the areas of data science, artificial intelligence, app/game development, and security. Students will utilize knowledge related to these areas and programming skills to develop solutions to authentic problems. This course is part of the Computer Science Pathway. **This is a CTE course, for funding and employment follow-up; the student's social security number will be needed.**

Computer Science (B7352A and B7352B) and AP Computer Science A (B4570A and B4570B)
2 semesters, 4 credits
***Required*: Principles of Computing, Topics in CS or concurrent enrollment**
***Recommended:* Algebra II**
Computer Science introduces the fundamental concepts of procedural programming. Topics include data types, control structures, functions, arrays, files, and the mechanics of running, testing, and debugging. The course also offers an introduction to the historical and social context of computing and an overview of computer science as a discipline. **AP Computer Science A**, is a full-year course designed to provide students with the content established by the College Board using the Java programming language. Topics include object-oriented program design, program implementation, program analysis, standard data structures, standard algorithms, and computing in context. AP Computer Science A emphasizes object-oriented programming methodology with a concentration on problem-solving and algorithm development. **This is a CTE course, for funding and employment follow-up; the student's social security number will be needed.**
***For student registration purposes, students will register for Computer Science. The AP Computer Science A course will be added before the school year begins. ***

These two AP courses are part of the Career Kickstart Program from the College Board that will lead to credentials and college credit for all students who want to prepare for a career, whether they are heading to two- or four-year colleges, technical schools, or the workforce. With a focus on high-demand fields like cybersecurity, Career Kickstart will bring the best of Advanced Placement to courses designed for career and technical education. (CTE)

AP CK Cyber: Networking (B4590A and B4590B)
2 Semesters, 2 Credits
Designed by College Board to parallel college-level networking courses. AP CK Cyber Networking interweaves essential networking concepts with relevant, hands-on problem-solving activities to maximize students' understanding of network hardware and configuration, the use of protocols to enable reliable and accurate transmission of data between hosts, and relevant security practices that protect the transmission of data within and between computer networks. The course is designed to support student learning no matter their prior content knowledge or academic skills.

AP CK Cyber: Security (B4590C and B4590D)
2 Semesters, 2 Credits
Designed by the College Board to parallel college-level cybersecurity courses, AP CK Cyber: Security helps students build foundational cybersecurity skills in determining vulnerabilities and assessing the risk posed by potential threats exploiting vulnerabilities. Students then use their understanding of those vulnerabilities to determine, evaluate, and recommend a layered set of security mitigations. Finally, students determine and

evaluate strategies for detecting malicious cyber activity on a device or network, and analyze digital records for indicators of compromise. Students practice these skills across a variety of domains of security including physical spaces, a computer network, individual devices, and data and applications. Students will research emerging cybersecurity trends and gain hands-on experience implementing security protocols. The course is designed to support student learning no matter their prior content knowledge or academic skills.

FINE ARTS

Fine Arts CORE 40 Credit Options

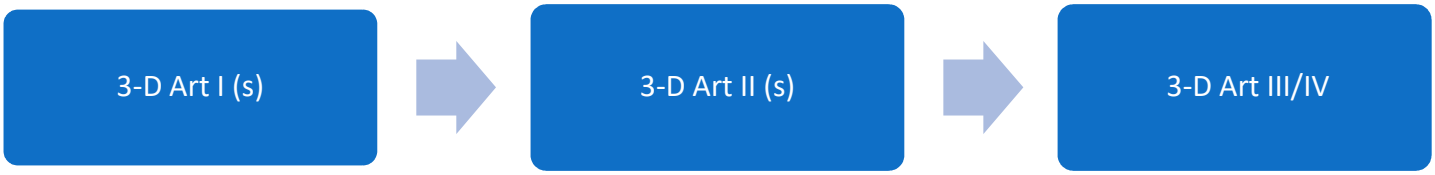
Any course from the following list will satisfy the Fine Arts Course requirement for the Core 40 Diploma.

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
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

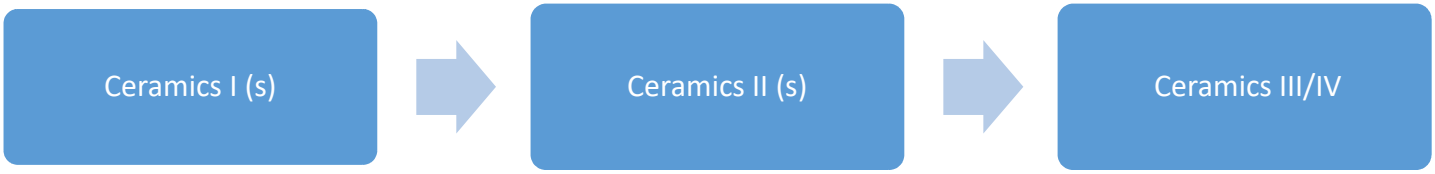
Beginning Concert Band
Symphonic Band
Concert Band
Advanced Concert Band
Wind Ensemble
Instrumental Ensemble I
Instrumental Ensemble II
Jazz I
Jazz II
Electronic Music
Music Theory
AP Music Theory
Music History/Appreciation
Hand Bells I
Hand Bells II
Introduction to Guitar

TWO-DIMENSIONAL

THREE-DIMENSIONAL



CERAMICS (3-D)



(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.

2-D Art III/IV (A4004A and A4004B)
2 semesters, 2 credits
***Recommended*: 2-D Art I and II**
2-D Art III/IV provides sequential learning experiences building on the fundamental skills learned in the previous classes. The production of an art portfolio will be discussed as well as art careers. This course is for the serious art student who wants to polish their skills and add to their portfolio. Through student choice and process/project documentation, students will engage in problem solving and self-criticism. Students will continue 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.

Ceramics III/IV (A4040A and A4040B)
Project Based Learning Course
2 semesters, 2 credits
Recommended: Ceramics I and Ceramics II
This course is designed to sharpen skill in either (or both) wheel throwing and hand building techniques. An advanced study in surface and glaze analysis, form, function and design is explored. Emphasis is placed on creativity, skill, and craftsmanship. Students may take this course multiple times for credit. Counts as a Fine Art credit for the AHD.

COMMUNICATIVE ARTS

Theatre Arts (J4242A and J4242B)
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 including tech elements such as lighting and costumes as well as acting. They collaborate on performances of improve and scripted shows as well as designing costumes for children's stories and creating a live music video. Counts as a Fine Art credit for the AHD.

Advanced Theatre Arts (J4240A and J4240B)
2 semesters, 2 credits – Work Based and Project Based Learning Course
***Recommended*: Theater Arts and Completed Application**
Advanced Theater Arts is a year-long course for sophomores, juniors and seniors. Students must have taken Theater Arts I to qualify. Advanced theater teaches students more advanced improvisation, production work, and play writing. This is accomplished by having students create and work in their own student run theater production companies. They experience all aspects of theater by creating the group, putting together productions, raising funds, and serving the community. Counts as a Fine Art credit for the AHD.

Theatre Production Management (J4248A and J4248B)
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, costume, set, props, and rigging equipment. Students will perform roles in a production such as lighting, spotlight, soundboard, costumes, set, props for Advanced Theatre or other class productions. In addition, students will be staff for the auditorium on productions and events. Therefore, some auditorium events students are required to work are paid events at $13-$17 an hour. 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. This course counts as a Fine Arts Credit for the class of 2027 and 2028 academic honors diploma. For the class of 2029 and beyond, this course will count as the communication requirement needed for graduation.

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. This course counts as a Fine Arts Credit for the class of 2027 and 2028 academic honors diploma. For the class of 2029 and beyond, this course will count as the communication requirement needed for graduation.

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. This course counts as a Fine Arts Credit for the class of 2027 and 2028 academic honors diploma. For the class of 2029 and beyond, this course will count as the communication requirement needed for graduation.

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.

Student Media Courses
Yearbook (J1086A and J1086B) News Magazine (J1086C and J1086D)
2 semesters, 2 credits – Project Based Learning Course
***Recommended*: Intro to Journalism Writing, Broadcast, Design or Photography.**
The purpose of the Publishing staff is to produce journalistically sound student media. All students will learn and apply desktop publishing skills, writing, editing, design, leadership, law and ethics, AP Style, photography, public relations, teamwork and communication skills while contributing to the student newsmagazine, yearbook, online news site and social media feeds. Each student is responsible for his or her own transportation to cover events. After-school work time is required. This course is double-blocked, and meets for two consecutive periods. Counts as a Fine Art credit for the AHD. This course counts as a Fine Arts Credit for the class of 2027 and 2028 academic honors diploma. For the class of 2029 and beyond, this course will count as the communication requirement needed for graduation.

Student Media Honors Publications (J1086H and J1086I)
2 semesters, 4 credits – Project Based Learning Course
***Recommended*: 1 year of a Publishing staff. Apply to adviser.**
This course is open to Publication editors only and provides for further study and practice in analyzing information, interviewing, and note taking for the purpose of writing, editing, and publishing student media. Student editors must plan, publish, market and distribute their publications tied to instruction in law and ethics, AP Style and leadership strategies. **This course meets for two class periods. Students in Student Media Honors must take both course periods.** Counts as a Fine Art credit for the AHD for cohorts 2027 and 2028. For the class of 2029 and beyond, this course will count as the communication requirement needed for graduation.

Student Media Broadcast (J1086E and J1086F)
2 semesters, 2 credits – Project Based Learning Course
Recommended: Journalism Writing, Broadcast, Design or Photography.
The purpose of the broadcasting staff is to produce journalistically sound student media. All students will learn and apply desktop publishing skills, writing, editing, design, leadership, law and ethics, AP Style, videography, public relations, teamwork and communication skills while contributing to the student YouTube channel, online news site and social media feeds. Each student is responsible for his or her own transportation to cover events. After-school work time is required. Counts as a Fine Art credit for the AHD for cohorts 2027 and 2028. For the class of 2029 and beyond, this course will count as the communication requirement needed for graduation.

Student Media Broadcast Honors (J1086J and J1086K)
Advanced Writing and Editing
2 semesters, 4 credits – Project Based Learning Course
Recommended: 1 year of Broadcasting staff. Apply to adviser.
This course is open to broadcast editors only and provides for further study and practice in video news production, visual story-telling, media literacy, and journalism production. Student editors must plan, publish, market and distribute their episodes tied to instruction in law and ethics, AP Style and leadership strategies. **This course meets for two course periods. Students in Student Media Broadcast Honors must take both course periods.** Counts as a Fine Art credit for the AHD for cohorts 2027 and 2028. For the class of 2029 and beyond, this course will count as the communication requirement needed for graduation.

MUSIC (FINE ARTS)

Symphonic Band (U4160A and U4160B)
Symphonic Band Woodwinds (U4160C and U4160D)
***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.

Concert Band (U4168A and U4168B)
Project Based Learning Course
2 semesters, 2 credits Grades: 10-12
***Recommended:* Selection by audition or director permission**
This concert band class is available by audition to students who play a band instrument at an upper intermediate to advanced level and are enrolled in marching band. This is a co-curricular course that involves participation during school and outside school. Emphasis is placed on tone, technique development and sight reading. Advanced performance techniques are emphasized. Participation in the ISSMA Solo/Ensemble contest is encouraged. Serious band literature is selected from a variety of periods in music history. Private lessons are highly encouraged. Counts as a Fine Art credit for the AHD.

Wind Ensemble (U4170A and U4170B)
Project Based Learning Course
2 semesters, 2 credits Grades: 10-12
***Recommended:* Selection by audition or director permission**
This advanced band is considered the top concert band at Lake Central High School. The band represents Lake Central High School in public performances and competitions. Advanced performance techniques are emphasized. This is a co-curricular course that involves participation during school and outside school. Serious band literature is selected from a variety of periods of music history. Private lessons are highly encouraged. Counts as a Fine Art credit for the AHD. Students who are enrolled in the marching band will be placed in Advanced Concert Band or Intermediate Concert Band as assigned by the Director.

Jazz Ensemble (U4164A and U4164B)
Advanced Jazz Ensemble (U4164C and U4164D)
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. Advanced Jazz placed by director. Counts as a Fine Art credit for the AHD.

Percussion Ensemble (U4200A and U4200B)
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 compositing 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.

AP Music Theory (U4210A and U4210B)
2 semesters, 2 credits Grades: 10-12
Recommended: Music Theory I
Advanced Placement Music Theory is designed for the able and ambitious high school student who is committed to the close study of music structure and who has the desire and determination to gain advanced placement in music while still in high school. To qualify to enroll in AP Music Theory, the student must successfully complete Music Theory I, or possess a solid background in the skill areas of rhythm and notation reading (bass clef and treble clef) as well as scales and major key signatures. The focus of study is centered on techniques for aural and written analysis of music literature. All students enrolled in the course should take the Advanced Placement Music Theory exam in the spring. 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: Instrumental Ensemble (U4162A and U4162B)
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.

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 (U4182A and U4182B)
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 (U4186A and U4186B)
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.

Senior Treble: Advanced Chorus (U4188A and U4188B)
2 semesters, 2 credits Project Based Learning Course
Selection by Director
Advanced treble choral ensemble. Students entering are expected to be fluent in reading music and sight singing. Counts as a Fine Art credit for the AHD.

Concert Choir: Choral Chamber Ensemble (U4180A and U4180B)
2 semesters, 2 credits Project Based Learning Course
Selection by Director
Advanced mixed choral ensemble. Students entering are expected to be fluent in reading music and sight singing. 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.

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, in order to integrate these topics into the study of nutrition, food, and wellness. Food preparation experiences are a required component.

Advanced Nutrition & Wellness (C53400)
1 semester, 1 credit Project Based Learning Course
***Recommended*: Nutrition & Wellness**
This is a course 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.

Advanced Nutrition & Wellness- Baking (C53401)
1 semester, 1 credit, Project Based Learning Course
***Recommended:* Nutrition & Wellness**
This is a course 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. 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.

Principles of Culinary and Hospitality (C7173A and C7173B)
2 semesters, 2 credits
Project based Learning Course
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 industries. 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.

Principles of Interior Design (C7132A and C7132B)
2 semesters, 2 credits
Principles of Interior Design introduces students to fundamental design theory and color dynamics as applied to compositional design. Investigations into design theory and color dynamics will provide experiences in applying design theory to three-dimensional concepts, human factors and the psychology and social influences of space. These experiences will develop student's skills in creative problem solving, peer evaluation, and presentation skills.

Education Careers Pathway consists of three courses: Principles of Teaching, Child and Adolescent Development and Teaching and Learning.

Principles of Teaching (C7161A and C7161B)
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. This course is part of the Education Careers Pathway. Counts as a directed elective or elective for all diplomas.

Child and Adolescent Development (C7157A and C7157B)
2 semesters, 2 credits
Required Prerequisite: Principles of Teaching
Child and Adolescent Development examines the physical, social, emotional, cognitive, and moral development of the child from birth through adolescence with a focus on the middle years through adolescence. Basic theories of child development, biological and environmental foundations of development, and the study of children through observation and interviewing techniques are explored. The influence of parents, peers, the school environment, culture and the media are discussed. This course is part of the Education Careers Pathway.

Teaching and Learning (C7162A and C7162B)
2 semesters, 2 credits
Required Prerequisite: Principles of Teaching
Teaching and Learning provides students the opportunity to apply many of the concepts that they have learned throughout the Educations Professions pathway. In addition to a focus on best practices, this course will provide an introduction to the role that technology plays in the modern classroom. Through hands-on experience with educational software, utility packages, and commonly used microcomputer hardware, students will analyze ways to integrate technology as a tool for instruction, evaluation, and management. This course is part of the Education Careers Pathway.

Social and Community Services Pathway consists of three courses: Principles of Human Services, Fundamentals of Human Services, and Community Healthcare Worker to be offered in the 2027-2028 School Year.

Principles of Human Services (C7176A and C7176B)
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. This course is part of the Human and Social Services Pathway. Counts as a directed elective or elective for all diplomas.

Fundamentals of Human Services (C7276A and C7276B)
2 semesters, 2 credits
Prerequisites: Principles of Human Services
Fundamentals of Human Services examines key elements of effective delivery of human services. Topics of discussion include personal values, helping relationships, the impact of diversity, theories of helping, communication, problem-solving processes, crisis situations, abuse, and professional ethics. This course also provides training for identifying characteristics of basic crisis intervention skills. Students will evaluate their own personal strengths and limitation and discuss the importance of professional development for the human services social worker.

PHYSICAL EDUCATION

PE- Gym/Pool Hybrid (P35420)
GRADUATION REQUIREMENT
Students in cohorts 2026-2028 are required to have 2 semesters. Students in the 2029 cohort are required to have 1 semester.
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. There will be a pool component to this course. Ongoing assessment includes both written and performance-based skill evaluations.

PE- Swimming for Fitness (P35440)
FULFILLS PE GRADUATION REQUIREMENT
1 Semester, 1 Credit
Emphasis is on survival training in water, health-related physical fitness, and maintaining the skills/habits necessary for a lifetime of activity through swimming. The program will include emphasis on survival techniques, cardio-respiratory endurance, muscle endurance, body composition, flexibility, and muscle strength. Students will participate in a variety of individual and team activities in the pool. There will also be physical fitness activities outside of the pool, which include using the fitness center. The course will count for the required PE credit and be available for students in grades 9-12.

Health Education (P35060)
1 semester, 1 credit
GRADUATION REQUIREMENT
This course provides the basis for continued methods of developing knowledge, concepts, skills, behavior, and attitudes related to student health and well-being. The class includes units in growth and development, mental and emotional health, community and environmental health, nutrition, family life education, consumer health, personal health, alcohol, tobacco, and other drug education, intentional and unintentional injury and health promotion and disease prevention.
Heath Education will fulfill the Indiana Health credit required for graduation.

Alternate PE (P35421 or P35422) and Alternate PE Pool (P3544A) *
FULFILLS PE GRADUATION REQUIREMENT
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.

Baseball S2	*Dance S2*	*Soccer S1*	*Volleyball S1*
Basketball S2	*Football S1*	*Softball S2*	*Winter Guard S2*
CheerleadingS2	*Golf GS1, BS2*	*Swimming S2*	*Wrestling S2*
Color Guard S1	*Gymnastics S2*	*Tennis BS1 GS2*	*Unified Track S2*
Cross Country S1	*Marching Band S1*	*Track & Field S2*	

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

For the class of 2029 and beyond, only one PE credit is required.

Criteria
Students participating in a qualifying activity must participate fully for the entire season as outlined by the governing body (ISSMA or IHSAA). 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**

Intro to Sports Medicine (P35600)
1 semester, 1 credits Work Based Learning Course
In this class, the student will explore the human anatomy, physiology, and kinesiology as they relate to sport and sports-related injuries. The students will, in addition learn the proper techniques for evaluating and rehabilitating injuries as they occur in athletes. Finally, the student will receive information about the duties of an athletic trainer and career and educational choices that will move a student towards a career in sports medicine. Students are evaluated through written testing as well as practical applications evaluations. The final written exam will be comprehensive, covering all information covered during the semester.

In addition, a research paper will be completed approximately two weeks prior to the end of the semester. This research paper will be counted as a grade for the second nine weeks of the semester.

Sports Conditioning (P3560F and P3560G)
2 semesters, 2 credits
***Recommended*: Secondary Physical Education I/II**
The Sports Conditioning class is for student-athletes who are in good standing or have a coach recommendation at Lake Central. If a student-athlete falls out of good standing, they may be removed from the course at the end of the nearest semester. The course is designed to provide an opportunity for athletes to participate in a structured strength and athletic enhancement program. The class is geared toward the student who has shown an above average interest and ability in physical education through participation on a Lake Central High School athletic team. The course will incorporate individual and sport specific strength training programs for Lake Central student athletes. The instructor will work closely with the coaching and athletic training staff allowing the student the opportunity to reach their full potential in the class and in their sport. Students will be given workouts that may include a battery of core lifts for basic strength training. Students will have an opportunity to make use of free weights, medicine balls, agility and plyometric stations. Upon completion of this course, students will understand and be able to facilitate a workout program that will enhance performance in their sport or daily life, as well as, promote proactive habits for lifelong fitness. Students can be added to this course with a coach recommendation

Intro to Sports Conditioning (P3560H and P3560I)
2 semesters, 2 credits
***Recommended*: Secondary Physical Education I/II**
The Intro to Sports Conditioning class is for **student-athletes** in good standing who are new to Lake Central. If a student-athlete falls out of good standing, they may be removed from the course at the end of the nearest semester. The course is designed to allow new athletes to participate in a structured strength and athletic enhancement program. The class is geared toward new athletes who plans to participate in a sport here at Lake Central. The course will incorporate individual and sport-specific strength training programs for Lake Central student athletes. The instructor will work closely with the coaching and athletic training staff allowing the student the opportunity to reach their full potential in the class and in their sport. Students will be given workouts that may include a battery of core lifts for basic strength training. Students will have an opportunity to make use of free weights, medicine balls, agility and plyometric stations. Upon completion of this course, students will understand and be able to facilitate a workout program that will enhance performance in their sport or daily life, as well as, promote proactive habits for lifelong fitness.

Life Saving and Water Safety (P3560B)
1 semester, 1 credit Work Based Learning Course
***Recommended*: Minimum 15 years of age, able to swim 300 continuous yards Freestyle and/or Breaststroke and recover a 10-pound brick from 8 feet of water.**
Emphasis is on the American Red Cross Lifeguard certification. This includes CPR/AED for the Professional Rescuer and First Aid.
This course is designed to provide certification in American Red Cross lifeguarding as well as certification in CPR, AED, and First Aid. This course will help improve swimming skills and train students for jobs at local beaches, pools, and camps

Lifeguarding (P3560D – 1st Semester) (P3560E – 2nd Semester)
1 semester, 1 credit, Students can take both P3560D and P3560E in the same year for a maximum of 2 semesters, 2 credits.
Service Based Learning Course
***Recommended*: Life Saving and Water Safety, Teacher approval required.**
Students will serve as a lifeguard and assist in instruction of the PE Pool classes. Teacher approval is required for admission into this course.

Lifetime Fitness (P3560L)
1 semester, 1 credit - per year
Recommended: Secondary Physical Education I/II
Students grades 10-12 only.
This class will incorporate a variety of activities such as: ultimate Frisbee, flag football, basketball, volleyball, team handball, and more. Skills, rules, and etiquette of the sport are included. Students may take only one semester of this class.

Physical Conditioning (P3560M and P3560N)
2 semesters, 2 credits
***Recommended*: Secondary Physical Education I/II**
Students grades 10-12 only.
This course will incorporate individual training programs for Lake Central students. The instructors will work closely with the students allowing each the opportunity to reach their full potential in the class and with their personal fitness goals.

CAREER AND TECHNICAL EDUCATION

The State of Indiana has implemented Next Level of Program Study for many Consumer and Technical Education Pathways. As a result, many of the introductory courses are changing

Digital Design (Graphics)

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

Principles of Digital Design (V7140A and V7140B)
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.

Digital Design Pathway – 2 semesters, 3 courses, 6 credits total
Comprised of three courses taken concurrently.
They are as follows:
Digital Design Graphics (V7141A and V7141B)
2 semesters, 2 credits
Digital Design Graphics will help students understand and create the most common types of computer graphics used in the industry. Additionally, students will be introduced to a full range of image input technology and manipulation including conventional photography, digital imaging, and computer scanners. Students will learn to communicate concepts and ideas through various imaging devices.

Graphic Design and Layout (V5550A and V5550B)
Required Prerequisite: Principles of Digital Design, concurrent enrollment with Digital Design Graphics
2 semesters, 2 credits
Graphic Design and Layout teaches the design process and the proper and creative use of type as a means to develop effective communications for global, corporate and social application. Students will create samples for a portfolio, which may include elements or comprehensive projects in logo, stationery, posters, newspaper, magazine, billboard, and interface design.

Technical Skills Development - Graphics (V7156G and V7156H)
Technical Skills Development provides the Digital Design student the opportunity to apply the technical knowledge and skills learned in the Digital Design Pathway in additional real-world learning experiences.

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Digital Design Capstone (V7246A and V7246B)
2 semesters, 6 credits Project Based Learning
Required: Digital Design Pathway
The Digital Design Capstone course provides students the opportunity to dive deeper into advanced concepts of Visual Communication including user experience/user interface design, video production editing, animation and/or web design. Students may focus their efforts on one area or explore multiple aspects

Precision Machine

These are all CTE courses, for funding and employment follow-up; the student's social security number is required. The Precision Machining Pathway consists of three courses: Principles of Precision Machining, Precision Machining Fundamentals, and Advanced Precision Machining.

Principles of Precision Machining (V7109A and V7109B)
2 semesters, 2 credits Project Based Learning Course
Quantitative Reasoning Course
***Recommended*: None**
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.

Precision Machine – 2 semesters, 6 credits total
Comprised of three courses taken concurrently. They are as follows:

Precision Machining Fundamentals (V7105A and V7105B)
2 semesters, 2 credits
Required Prerequisite: Principles of Precision Machining
Quantitative Reasoning Course
Precision Machining Fundamentals will build a foundation in conventional milling and turning. Students will be instructed in the classroom on topics of shop safety, theory, industrial terminology, and calculations. Lab work will consist of setup and operation of vertical and/or horizontal milling machines and engine lathes. This course prepares the student for the optional National Institute for Metalworking Skills (NIMS) Milling I certification that may be required for dual credit.

Advanced Precision Machine (V7107A and V7107B)
2 semesters, 2 credits
Advanced Precision Machining will build upon the Turning and milling processes learned in Precision Machining Fundamentals and will build a foundation in abrasive process machines. Students will be instructed in the classroom on topics of shop safety, theory, industrial terminology, and calculations associated with abrasives. Lab work will consist of the setup and operation of bench grinders and surface grinders. Additionally, students will be introduced to Computerized Numeric Controlled (CNC) setup, operations and programming. This course prepared the student for the optional National Institute for Metalworking Skills (NIMS) Grinding I certification that may be required for dual credit.

Technical Skills Development – Precision Machine (V7156P and V7156Q)
2 semesters, 2 credits
The Technical Skills Development provides the Precision Machine student the opportunity to apply the technical knowledge and skills learned in the Precision Machine Pathway in additional real world learning experiences.

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Precision Machining Capstone (V7219A and V7219B)
2 semesters, 6 credits
Required: Precision Machining I
Quantitative Reasoning Course
Precision Machining II is a more in-depth study of the skills learned in Precision Machining I, with a stronger focus in CNC setup/operation/programming. Classroom activities will concentrate on precision set-up and inspection work as well as machine shop calculations. Students will develop skills in advanced machining and measuring parts involving tighter tolerances and more complex geometry. A continued focus on safety will also be included.

Automotive

The Automotive Services Pathway consists of Principles of Automotive Service and the two of the three courses in Automotive Service Technology (Brake Systems and Steering and Suspension).

Principles of Automotive Services (V7213A and V7213B)
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.

Automotive Service Technology
2 semesters, 2 courses, 2 credits each for a total of 4 credits Project Based Learning Course
Dual Credit
***Required*: Principles of Automotive Service and Teacher Recommendation**
Comprised of two courses that are taken concurrently. They are as follows:

Brake Systems (V7205A and V7205B)
2 semesters, 2 credits Project Based Learning
This course gives students an in-depth study of vehicle electrical systems. Students will study the fundamentals of electricity and automotive electronics in various automotive systems. Additionally, it teaches theory, service and repair of automotive braking systems. This course provides an overview of various mechanical brake systems used on today's automobiles. This course will emphasize professional diagnosis and repair methods for brake systems.

Steering and Suspension (V7212A and V7212B)
2 semesters, 2 credits Project Based Learning
This course takes an in-depth look at engine performance, including concepts in the diagnosis and repair of ignition, fuel, emission and related computer networks. This course presents engine theory and operation and studies the various engine designs utilized today. This course also takes an in-depth look at engine performance, including advanced concepts in the diagnosis and repair of ignition, fuel, emission and related computer networks. This course presents engine theory and operation and studies the various engine designs utilized today. Hybrid/Alternative fuel technology will also be introduced.

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Automotive Service Capstone (V7375A and V7375B)
2 semesters, 6 credits
Required – Automotive Service Pathway Completion
This course further explores important skills and competencies within the Automotive Services Technology Pathway. Topics such as Steering & Suspension, Engine Repair, Climate Control and Driveline Service.
This is a CTE course, for funding and employment follow-up; the student's social security number will be needed.

Engineering

Students taking these three courses will qualify for the Engineering Pathway. These courses are 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.

Principles of Engineering: Project Lead the Way (V56440)
2 semesters, 2 credits
Quantitative Reasoning Course
***Required*: Introduction to Engineering Design**
Principles of Engineering is a course that focuses on the process of applying engineering, technological, scientific and mathematical principles in the design, production, and operation of products, structures, and systems. This is a hands-on course designed to provide students interested in engineering careers to explore experiences related to specialized fields such as civil, mechanical, and materials engineering. Students will engage in research, development, planning, design, production, and project management to simulate a career in engineering. The topics of ethics and the impacts of engineering decisions are also addressed. Classroom activities are organized to allow students to work in teams and use modern technological processes, computers, CAD software, and production systems in developing and presenting solutions to engineering problems.

Civil Engineering Architecture: Project Lead the Way (V56500)
2 semesters, 2 credits
Dual Credit
Quantitative Reasoning Course
***Recommended*: Engineering Technology**
Architectural Drafting and Design II presents a history and survey of architecture and focuses on the creative design of buildings in a studio environment. This course covers problems of site analysis, facilities programming, space planning, conceptual design, proper use of materials, and selection of structure and construction techniques. Students develop presentation drawings, and give oral presentations and critiques. Generation of form and space is addressed through basic architectural theory, related architectural styles, design strategies, and a visual representation of the student's design process. This course will focus on advanced Computer Aided Design (CAD) techniques, including fundamentals of three-dimensional modeling for design. It includes an overview of modeling, graphical manipulation, part structuring, coordinate system, and developing strategies of modeling. Advanced CAD will enable the student to make the transition from 2D drafting to 3D modeling. Various Architectural software packages and applications may be used.

Digital Electronics: Project Lead the Way (V55380) ** will be offered in the 2027-2028 school year**
2 semesters, 2 credits
Dual Credit
Quantitative Reasoning Course
***Required*: Intro to Engineering, Principles of Engineering**
Digital Electronics is a course of study in applied digital logic that encompasses the design and application of electronic circuits and devices found in video games, watches, calculators, digital cameras, and thousands of other devices. Instruction includes the application of engineering and scientific principles as well as the use of Boolean algebra to solve design problems. Using computer software that reflects current industry standards, activities should provide opportunities for students to design, construct, test, and analyze simple and complex digital circuitry software will be used to develop and evaluate the product design. This course engages students in critical thinking and problem-solving skills, time management and teamwork skills.

MISCELLANEOUS

Work Based Learning

Career Exploration Internship (X0530A and X0530B)
2 semesters, 6 credits
Recommended: Seniors

The Career Exploration Internship course is a paid work experience in the public or private sector that provides for workplace learning in an area of student career interests. It is intended to expose students to broad aspects of a particular industry or career cluster area by rotating through a variety of work sites or departments. There is required classroom work along with required work hours that equal approximately 243 hours per semester (~13.5 hours/week). The following are needed to confirm enrollment in the course:

- Good academic standing, a minimum of 2.0 GPA, and be on track to graduate on time.
- Good attendance record, with no more than 8 unexcused absences per semester.
- Your own reliable transportation prior to the start of the school year.
- Proof of health and automobile insurance.
- Proof of a paid job/internship prior to the start of the school year.
- Completed student/parent application that gives the student permission to go off campus for the purpose of this course.

Student's social security number is required to receive CTE funding for this class.

College Classes: Attend classes at a local college campus
Recommended: Seniors only
Students will be able to attend college courses at a local college (Purdue University Northwest, Indiana University or Ivy Tech Community College) in the afternoon. Students must enroll in at least 2 classes each semester.

Independent Study Research (90080)
2 semesters, 2 credits
Independent Study Research is a course that provides students with unique opportunities for independent, in-depth study of one or more specific problems. Students develop a familiarity with the procedures used in a given educational, research, or industrial setting or a variety of such settings. Students enrolled in this course will complete an end-of-course project, such as a scientific research paper, or other approved presentations of their findings. Students must apply through the guidance office in order to be considered for this unique study opportunity. Students must also have a mentor teacher to sponsor their research.

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.

HAMMOND AREA CAREER CENTER-CAREER-TECHNICAL EDUCATION

Lake Central High School offers juniors and seniors an opportunity to attend the Hammond Area Career Center (HACC). Programs offered are taught three hours daily. Lake Central students attending the HACC are required to ride the bus. Students attending career-training programs at the Area Career Center will spend half of the school day at the Area Career Center and the other half at Lake Central High School. In order for students to qualify to attend the Area Career Center, they must meet two of the following criteria:

- Must Be a Junior or Senior
- Passed all required classes at Lake Central
- Complete the Online Application on the HACC's Website : Hammond Area Career Center

Advanced Manufacturing/Electrical Engineering Maintenance Technician

Students study manufacturing processes and practices with a focus on electrical principles - motor and motor controls and industrial wiring. Electrical studies will include the National Electrical Code and its application in designing and installing electrical circuits, selecting wiring materials and devices, and choosing wiring methods.

Students enrolled in this program will meet the CTE Concentrator status for graduation over the course of one academic year by completing the following courses:
R71080 – Principles of Advanced Manufacturing
R71020 – Industrial Electrical Fundamentals
R71030 – Advanced Manufacturing Technology

Eligible Certifications: OSHA-10
Dual Credit Provider: Vincennes University
CIMT100 – Electronics for Automation – 3 credits
CIMT100L- Electronics for Automation Lab- 3 credits
CIMT150 – Electronic & Electrical Applications for Manufacturing – 2 credits
CIMT150L- Electronic & Electrical Applications for Manufacturing Lab – 1 credit

Juniors who complete the curriculum in an exemplary fashion may be eligible to return to complete the capstone for this program. It is NOT required or guaranteed.
R72600 – Industrial Electrical Capstone

Auto Technology – Open to Juniors and Seniors

Students receive an overview of the operating and general maintenance systems of the modern automobile including maintenance and light repair. Students will be introduced to safety and operation of equipment and tools used in the automotive industry. The program includes in-depth study of vehicle electrical systems: theory, diagnostics and repair methods for brake systems; and theory, service and repair of steering and suspension systems.

Students enrolled in this program will meet the CTE Concentrator status for graduation over the course of one academic year by completing the following courses:
R72130- Principles of Automotive Service
R72050- Automotive Brakes
R72120- Steering and Suspension

Eligible Certifications: OSHA-10, Automotive Service Excellence (ASE)

Juniors who complete the curriculum in an exemplary fashion may be eligible to apply to return to complete the capstone for this program. It is NOT required or guaranteed.
R73750- Auto Service Capstone
Eligible Certifications: Automotive Service Excellence

Computer Information Technology & Networking- Open to Juniors and Seniors

This course will begin by exploring trends of computing and the necessary skills to implement information systems. Students will then learn and apply knowledge required to assemble components, install, configure and maintain devices/software. Finally, students are introduced to the principles and concepts of computer networking and the field of Cybersecurity/Information Assurance - the technology used and techniques involved in creating a secure computer networking environment.

Students enrolled in this program will meet the CTE Concentrator status for graduation over the course of the academic year by completing the following courses:
R71830 Principles of Computing
R71800 Information Technology Fundamentals
R71810 Networking Fundamentals

Eligible Certifications: Comp TIAA+
Dual Credit Provider: Ivy Tech
SDEV 120- Computing Logic 3 credits
INFM 109 Informatics Fundamentals – 3 credits
ITSP 132 – IT Support Essentials 1 – 2 credits
ITSP 134- IT Support Essentials II – 2 credits
ITSP 136- Workforce Preparation- 1 credit
NETI104- Introduction to Networking – 3 credits
CSIA 105 – Introduction to Cyber Security- 3 credits

Students may choose to return for a second year and the Networking Capstone course.
Networking Capstone- R72510

Construction Technology – Open to Juniors and Seniors

Students start with the basic skills needed in the construction trade including the types and uses of common hand/power tools and the terminology associated with drawings and safety. Students will move into studying the procedures and hands on practice of laying out and constructing floor systems, wall systems, ceiling joists and roof framing. Students finish up with interior and exterior finishing techniques such as: roofing applications, exterior finishing, drywall installation, doors, trim and cabinet installations.

Students enrolled in this program will meet the CTE Concentrator status for graduation over the course of one academic year by completing the following courses:

R71300 Principles of Construction
R71230 Construction Trades: General Carpentry
R71220 Construction Trades: Framing & Finishing

Eligible Certifications: OSHA-10, Carpentry Level One Apprenticeship Certification
Dual Credit Provider: Ivy Tech
BCTI100- Introduction to Construction Technology – 3 credits
BCTI101- Introduction to Carpentry Part 1- 3 credits
BCTI103- Carpentry Framing & Finishing Part 1 – 3 credits

Juniors who complete the curriculum in an exemplary fashion may be eligible to apply to return to complete the capstone for this program. It is NOT required or guaranteed.
Construction Trades Capstone- R72420

Criminal Justice Open to Juniors and Seniors

This course begins with an in-depth study of the criminal justice system: law enforcement, courts and corrections. Students will critically examine the history and nature of the major theoretical perspectives in criminology and connections between theory and criminal justice systems practice. Corrections & Cultural Awareness focuses on the study of American criminal justice problems and systems specifically the local, state, and federal correctional agencies. The program includes physical fitness and hands-on police practices such as take-downs.

Students enrolled in this program will meet the CTE Concentrator status for graduation over the course of one academic year by completing the following courses:
R71930 Principles of Criminal Justice
R71910 Law Enforcement Fundamentals
R71880 Corrections and Cultural Awareness

Eligible Certifications: Emergency Tele communicator Certification (NAED), CPR
Dual Credit Provider: Vincennes University
LAWE100- Survey of Criminal Justice – 3 credits
LAWE101 – Basic Police Operations – 3 credits
LAWE15- Ethics & Professionalism in Criminal Justice – 3 credits
LAWE150- Criminal Minds & Deviant Behavior- 3 credits

Juniors who complete the curriculum in an exemplary fashion may be eligible to complete the capstone for this program. It is NOT required or guaranteed.

R72310 – Criminal Justice Capstone
Eligible Certifications: Certified Indiana County Jail Officer

Culinary Arts- Open to Juniors and Seniors

Students will learn about the hospitality industry starting with basic food theory/skills, food safety and sanitation. A focus on nutrition will allow students to learn the characteristics, functions and food sources of major nutrient groups and how to maximize nutrient retention. Finally, students study about, and create, different soups, stocks, sauces and baked items. Students in this program will also have the opportunity to work at the ACC Cafe, utilizing state of the art equipment.

Students enrolled in this program will meet the CTE Concentrator status for graduation over the course of one academic year by completing the following courses:
R71730 Principles of Culinary and Hospitality
R71710 Nutrition
R71690 Culinary Arts

Eligible Certifications: ServSafe Food Handler, Certified Fundamentals Cook
Postsecondary Certification: Culinarian Certificate/Ivy Tech Community College
Dual Credit Provider: Ivy Tech
HOSP101 – Sanitation & Safety – 3 credits
HOSP102- Basic Food Theory & Skills- 3 credits
HOSP103- Soups, Stocks, & Sauces- 3 credits
HOSP104- Nutrition – 3 credits
HOSP105- Introduction to Baking- 3 credits
HOPS108-Hospitality Relations Management- 3 credits

Junior who complete the curriculum in an exemplary fashion may be eligible to apply to return to complete the capstone for this program. It is NOT required or guaranteed.
R72330 Culinary Capstone

Dental Assisting- Open to Juniors and Seniors

Students focus and prepare for careers in the dental field with an emphasis on dental assisting. Students will study head, neck, oral anatomy and oral hygiene. The role of dental assistant moves students towards the study and hands-on practice (in the operatory) on chair-side assisting, office procedures/equipment and their correct use.

Students enrolled in this program will meet the CTE Concentrator status for graduation over the course of one academic year by completing the following courses:
R73150- Principles in Dental Careers
R73160- Dental Careers Fundamentals
R73170- Advanced Dental Careers

Eligible Certification: Dental Support Technician, CPR

Juniors who complete the curriculum in an exemplary fashion may be eligible to apply to return to complete the capstone for this program. It is NOT required or guaranteed.
R73180 Dental Careers Capstone

Early Childhood Education – Open to Juniors and Seniors

This course provides students with an in-depth study and preparation of skills and strategies necessary to successfully qualify for the Child Development Associate credential. Students prepare and practice delivering developmentally appropriate lesson plans and activities. This program requires students to participate in an internship in an early childhood center.

Students enrolled in this program will meet the CTE Concentrator status for graduation over the course of one academic year by completing the following courses:
R71600 – Principles of Early Childhood Education
R71580- Early Childhood Education Curriculum
R71590- Early Childhood Guidance

Eligible Certifications: Child Development Associate (CDA), CPR
Dual Credit Provider: Ivy Tech
EDUC101- Introduction to Teaching- 3 credits
EDUC121 – Child and Adolescent Development – 3 credits

Juniors who complete this curriculum in an exemplary fashion may be eligible to apply to return to complete the capstone for this program. It is NOT required or guaranteed.
R72590- Early Childhood Education Capstone

Digital Design and Graphic Arts- Open to Juniors and Seniors

Utilizing Mac's and Adobe (InDesign, Illustrator, Photoshop) design products, students will study design theory (Principles and Elemental) advancing towards the creation of a wide array of graphic and visual communication projects. The program includes hands-on training and use of different digital technologies and operations: large format printers, screen printing, large multi-function digital printing presses, vinyl cutting and heat press and embroidering machines.

Students enrolled in this program will meet the CTE Concentrator status for graduation over the course of one academic year by completing the following courses:
R71400 - Principles of Digital Design
R55500 - Graphic Design & Layout
R71410 - Digital Design Graphics

Eligible Certifications: PrintEd Certification
Dual Credit Provider: Vincennes University

Juniors who complete this curriculum in an exemplary fashion may be eligible to apply to return to complete the capstone for this program. It is NOT required or guaranteed.

R72460 Digital Design Capstone

Health Science Education

This program provides students interested in a career in healthcare, with the necessary knowledge of the healthcare and body systems. Students will focus specifically on medical terminology (prefixes, suffixes, and word roots) and anatomy and physiology. Throughout the course, students will learn body systems and organs, common diseases, and identify procedures, treatments and diagnostic tests. Students will complete these courses in the first year of the program:
R71682- Principles of Healthcare
R52740- Healthcare Fundamentals
R71660- Healthcare Specialist CNA

Eligible Certifications: NHESE, CPR
Dual Credit Provider: Ivy Tech
HLHS100- Introduction to Health Careers – 3 credits
HLHS101- Medical Terminology – 3 credits
HLHS102- Essentials of Anatomy & Physiology – 3 credits
HLHS104- CPR/Basic Life Support - .5 credits

Students wishing to obtain CTE Concentrator status and show exemplary academic progress, return to complete either the Healthcare Specialist - CNA or Healthcare Specialist - EMS program the following year.

Health Science Education – Year 2 Healthcare Specialist- CAN

Approved by the Indiana State Department of Health, this program prepares students to successfully test for the Certified Nurse Aide Indiana State License. The program follows the 30 NATCEP (Nurse Aide Training Program Curriculum) preparing students to assist residents with activities of daily living. Mastery is accomplished through bookwork, hands-on activities and 90-hour clinical experience in a Skilled Nursing Facility.

Students enrolled in this program will meet the CTE Concentrator status for graduation over the course of the academic year by completing the following course:
R72550 - Healthcare Capstone

Prerequisite: Health Science Program
Eligible Certifications: CNA, CPR
Dual Credit Provider: Ivy Tech
HLHS107 – CAN Prep – 5 credits
HLHS113- Dementia Care – 3 credits
HLHS105 – Medical Law & Ethics – 3 credits

Health Science Education – Year 2 Healthcare Specialist- Emergency Medical Services

This program is designed for students desiring to perform emergency medical care. During the course students will learn to recognize the seriousness of a patient's condition, use appropriate emergency care techniques and equipment to stabilize the patient, and transport to the hospital. Students practice real-world situations utilizing the classroom ambulance as well as participate in ride-alongs with local ambulance organizations.

Students enrolled in this program will meet the CTE Concentrator status for graduation over the course of the academic year by completing the following courses:
R71650 - Emergency Medical Tech
R7255E – Healthcare Specialist Capstone EMT
Prerequisite: Health Science Program
Eligible Certifications: National Registry of Emergency Medical Technician, EMT Advanced, Stop the Bleed, CPR
Dual Credit Provider: Ivy Tech
PARM102 – Emergency Medical Technician – 7.5 credits

EMET – Emergency Medical Services –for students who did not complete Health Careers I

Students completing this program will NOT earn a pathway.

R71680 – Principles of Healthcare
R52740- Healthcare Fundamentals
R71650 – Emergency Medical Technician

Radio & TV Broadcasting – Open to Juniors and Seniors

Program provides an in-depth study and skills needed for studio and video production for radio, television and digital technologies. Students will utilize the state-of-the-art video and audio equipment and Mac's with digital media for creating and editing high quality productions.

Students enrolled in this program will meet the CTE Concentrator status for graduation over the course of one academic year by completing the following courses:
R71390 - Principles of Broadcasting
R73060 - Audio & Video Production Essentials
R73070 - Mass Media Production

Eligible Certifications: Adobe Certified Associate
Dual Credit Provider: Vincennes University
BCST102- Intro to Audio/Video Production- 3 credits
BCST120- Audio Production – 3 credits
BCST140- Video Production 1- 3 credits

Juniors who complete this curriculum in an exemplary fashion, may be eligible to apply to return to complete the capstone for this program. It is NOT required or guaranteed.
R73080- Radio & TV Broadcasting Capstone

Welding – Open to Juniors and Seniors

Program provides theory, classroom preparation, and laboratory experience following the OSHA standards and guidelines endorsed by the American Welding Society (AWS). Students will practice plasma arc cutting, basic welding and shielded metal arc welding. Laboratory welds will be performed in basic weld joints with a variety of electrodes and positions. Emphasis is placed on developing skills necessary for students to obtain their AWS certification.

Students enrolled in this program complete the following high school courses over the course of one academic year
R71100- Principles of Welding
R71110- Shielded Metal Arc Welding
R7156W - Technical Skills Attainment Welding

Eligible Certifications: American Welding Society (AWS), OSHA-10
Dual Credit Provider: Ivy Tech
WELD100- Welding Fundamentals- 3 credits
WELD108- Shielded Metal Arc Welding- 3 credits
WELD206 – Shielded Metal Arc Welding II- 3 credits

Students wishing to obtain CTE Concentrator status and show exemplary academic progress, return to complete the Welding Capstone course.
R71010- Gas Welding Processes
R7226A- Welding Technology Capstone
R7226B- Welding Technology Capstone

Pathways Lake Central High School Class of 2025 and beyond

To be a concentrator and earn a Pathway, students must take all three courses in the Pathway. Capstone (Level II) is optional, but requires the completion of the Pathway. Courses must be taken in order to count toward Pathway completion

Cluster: Advanced Manufacturing
Career Pathway: Precision Machining – Lake Central High School

Course Number	Course Name
V7109A & V7109B	Principles of Precision Machining
V7105A & V7105B	Precision Machining Fundamentals
V7107A & V7107B	Advanced Precision Machining

Capstone: V7219A & V7219B Precision Machining Capstone

Cluster: Arts, AV Tech and Communication
Career Pathway: Digital Design – Lake Central High School

Course Number	Course Name
V7140A & V7140B	Principles of Digital Design
V7141A & V7140B	Digital Design Graphics
V5550A & V5550B	Graphic Design and Layout-

Capstone: V7246A & V7246B Digital Design Capstone

Cluster: Finance
Career Pathway: Accounting

Course Number	Course Name
B4562A & B4562B Or B4562D & B4562E	Principles of Business Management Principles of Business Management Dual Credit
B4524A & B4524B	Accounting Fundamentals
B4522A & B4522B	Advanced Accounting

Capstone: Not currently offered.

Cluster: Marketing
Career Pathway: Entrepreneurship

Concentrator A: Course Number	Course Name
B7154A & B7154B	Principles of Entrepreneurship
B7148A & B7148B	New Venture Development
B7147A & B7147B	Small Business Operations

Capstone: Not currently offered.

Cluster: Marketing
Career Pathway: Marketing and Sales

Course Number	Course Name
B4562A & B4562B Or B4562D & B4562E	Principles of Business Management Principles of Business Management Dual Credit
B5914A & B5914B	Marketing Fundamentals
B5918A & B5918B or B7145A & B7145B	Strategic Marketing or Digital Marketing

Capstone: Not currently offered

Cluster: Business Management and Administration
Career Pathway: Business Administration

Course Number	Course Name
B4562A & B4562B Or B4562D & B4562E	Principles of Business Management Principles of Business Management Dual Credit
B5914A & B5914B Or B7143A & B7143B	Marketing Fundamentals or Management Fundamentals
B4524A & B4524B	Accounting Fundamentals

Capstone: Not currently offered

Cluster: Education Careers
Career Pathway: Education Pathway

Course Number	Course Name
C5218A & C5218B	Principles of Teaching
C5216A & C5216B	Child and Adolescent Development
C5217A & C5217B	Teaching and Learning

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

Course Number	Course Name
S5218A & S5218B	Principles of Biomedical Science
S5216A & S5216B	Human Body Systems
S5217A & S5217B	Medical Interventions

Capstone: Not currently offered.

Cluster: Human and Social Services
Career Pathway: Social and Community Service

Course Number	Course Name
C7176A & C7176B	Principles of Human Services
C7276A & C7276B	Fundamentals of Human Services
C7278A & C7278B	Community Health Worker

Capstone: Not currently offered.

Cluster: STEM
Career Pathway: Computer Science

Course Number	Course Name
B7183A & B7183B	Principles of Computing
B7351A & B7351B	Topics in Computer Science
B7352A & B7352B	Computer Science

Capstone: Not currently offered.

Cluster: STEM
Career Pathway: Engineering

Course Number	Course Name
V4802A & V4802B	Introduction to Engineering Design
V5644A & V5644B	Principles of Engineering
V5650A & V5650B	Civil Engineering and Architecture

Capstone: Not currently offered.

Cluster: Transportation, Distribution and Logistics
Career Pathway: Automotive Services

Course Number	Course Name
V7213A & V7213B	Principles of Automotive Service
V7205A & V7205B	Brake Systems
V7212A & V7212B	Steering and Suspensions

Capstone: V7375A & V7375B 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 the pathway.

Cluster: Advanced Manufacturing
Career Pathway: Welding Technology

Course Number	Course Name
R71100	Principles of Welding Technology
R71110	Shielded Metal Arc Welding
R71010	Gas Welding Processes

Capstone: V01430 Welding Technology Capstone

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

Course Number	Course Name
R71300	Principles of Construction Trades
R71230	Construction Trades General Carpentry
R71220	Construction Trades: Framing and Finishing

Capstone: V72420 Construction Trades Capstone

Cluster: Arts AV Tech and Communication
Career Pathway: Radio and Television Broadcasting
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Course Number	Course Name
R71390	Principles of Broadcasting
R73060	Audio and Visual Production Essentials
R73070	Mass Media Production

Capstone: R73080 Radio & TV Broadcasting Capstone

Cluster: Education and Training
Career Pathway: Early Childhood

Course Number	Course Name
R71600	Principles of Early Childhood Education
R71580	Early Childhood Education Curriculum
R71590	Early Childhood Education Guidance

Capstone: V72590 Early Childhood Education Capstone

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

Course Number	Course Name
R71930	Principles of Criminal Justice
R71910	Law Enforcement Fundamentals
R71880	Corrections and Cultural Awareness

Capstone: R72310 Criminal Justice Capstone

Cluster: Transportation, Distribution and Logistics
Career Pathway: Automotive Services

Course Number	Course Name
R72130	Principles of Automotive Service
R72050	Brake Systems
R72120	Steering and Suspensions

Capstone: R73750 Automotive Service Capstone