

LAKE CENTRAL HIGH SCHOOL



*9th Grade Course Selection Guide
2020-2021 Freshman Class 2024*

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. It is 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 is made up 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 Theater
- Outdoor Athletic Complex with turf baseball, softball, and football fields
- 3,800 seat gym

Lake Central High School has been fully accredited by AdvanceED since opening in 1966. The course offerings available to LCHS students are among the most abundant and rigorous in the state.

- 192 Course Options
- 21 AP (Advanced Placement) Courses
- 29 Dual Credit Courses plus many additional dual credits available through the Area Career Center
- 23 Career Technology Courses and Certifications
- 18 Honors/Advanced Courses
- 5 Project Lead the Way (PLTW) Courses

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

Graduates

- 94% Graduation Rate
- 92% Core 40 Diploma or higher
- 41% Core 40 with Academic Honors
- 82% of Graduates pursued a college education

State of Indiana

End of Course Assessments

97% of LCHS Graduates were proficient in both English and Math ECA Standards

Advanced Placement

- 1,478 AP Tests taken in 2019
- 56% Earned a 3 or higher
- 34% of 2019 grads earned a 3 or higher

Dual Credit

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

LCHS CLASS OF 2019 earned more than \$20.5 MILLION in SCHOLARSHIPS!!



GRADUATION REQUIREMENTS

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



Lake Central High School



CORE40 (minimum 46 credits)	
Course and Credit Requirements	
English/ Language Arts	8 credits Including a balance of literature, composition and speech.
Mathematics	6 credits 2 credits: Algebra I 2 credits: Geometry 2 credits: Algebra II <i>Students must take a math or quantitative reasoning course each year in high school</i>
Science	6 credits 2 credits: Biology I 2 credits: Chemistry I or Physics I or Integrated Chemistry-Physics 2 credits: any Core 40 science course
Social Studies	6 credits 2 credits: U.S. History 1 credit: U.S. Government 1 credit: Economics 2 credits: World History/Civilization or AP Human Geography/Geography/History of the World
Directed Electives	5 credits World Languages Fine Arts Career-Technical
Physical Education	2 credits (1 Gym, 1 Pool)
Health and Wellness	1 credit
Personal Financial Responsibility	1 credit
Electives*	6 credits *At least 6 credits should come from a College and Career Pathway.
Lake Central High School - 46 Total Credits Required	

CORE40 with Academic Honors (minimum 47 credits)

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

- Complete all requirements for Core 40.
- Earn 2 additional Core 40 math credits.
- Earn 6-8 Core 40 world language credits (6 credits in one language or 4 credits each in two languages).
- Earn 2 Core 40 fine arts credits.
- Earn a grade of a "C" or better in courses that will count toward the diploma.
- Have a grade point average of a "B" or better.
- Complete one of the following:
 - Earn 4 credits in 2 or more AP courses and take corresponding AP exams
 - Earn 6 verifiable transcripted college credits in dual credit courses from the approved dual credit list.
 - Earn two of the following:
 - A minimum of 3 verifiable transcripted college credits from the approved dual credit list,
 - 2 credits in AP courses and corresponding AP exams,
 - Earn a combined score of 1750 or higher on the SAT critical reading, mathematics and writing sections and a minimum score of 530 on each
 - Earn an ACT composite score of 26 or higher and complete written section

CORE40 with Technical Honors (minimum 47 credits)

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

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

STUDENTS:

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

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

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

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.

Lake Central High School



Graduation Pathway Checklist

Student Name: _____ Cohort: _____

Students must complete all three Graduation Pathway Requirements

1. Indiana High School Diploma

General
 Core 40
 Academic Honors
 Technical Honors

2. Learn and Demonstrate Employability Skills

Students must complete at least one of the following:

<input type="checkbox"/>	<p>Project-Based Learning: Working for an extended period of time to investigate and respond to an authentic, Learn and Demonstrate engaging, and complex question, problem, or challenge. Students engage in a rigorous, extended process of asking questions, Employability Skills finding resources, and applying information. Students often make work public by explaining, displaying, and/or presenting it to people beyond the classroom. This can include completion of a research project, completion of a course capstone, an AP Capstone Assessment, or another experience as approved by the State Board of Education. Courses that meet Project-Based Learning guidelines are noted in the Course Selection Guide.</p> <p>Description: _____</p> <p>Verification Product: _____</p>
<input type="checkbox"/>	<p>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.</p> <p>Description: _____</p> <p>Verification Product: _____</p>
<input type="checkbox"/>	<p>Work-Based Learning: Reinforces academic, technical, and social skills learned in the classroom through collaborative activities with employer partners, allowing students to apply classroom theories to practical problems, explore career options, and pursue personal and professional goals. This can include completion of a course capstone, completion of an internship, obtaining the Governor's or Local Work Ethic Certificate, employment outside of the school day, or another experience as approved by the State Board of Education.</p> <p>Description: _____</p> <p>Verification Product: _____</p>

3. Postsecondary -Ready

Students must complete at least one of the following:

<input type="checkbox"/>	Honors Diploma <input type="checkbox"/> AHD <input type="checkbox"/> THD
<input type="checkbox"/>	ACT College Ready Benchmarks (18 in English or 22 in Reading and 22 in Math or 23 in Science) English _____ or Reading _____ and Math _____ or Science _____ Competencies
<input type="checkbox"/>	SAT College Ready Benchmarks (480 in EBRW, 530 in Math) EBRW _____ Math _____
<input type="checkbox"/>	ASVAB (minimum score of 31) AFQT score _____
<input type="checkbox"/>	State and Industry Recognized Credential or Certification _____
<input type="checkbox"/>	CTE Concentrator (Earn a "C" average in 2 courses within a CTE Pathway for Class of 2023 and beyond.) _____ (Pathway) CTE1 Grade _____ CTE2 Grade _____ Average CTE Course GPA _____
<input type="checkbox"/>	AP/Dual Credit (Earn "C" average in at least three courses - at least one in core) AP/DC1 _____ AP/DC2 _____ AP/DC3 _____ AP/DC GPA _____ Core AP Course _____

Counselor Signature: _____ Date: _____

Administrator Signature: _____ Date: _____

Grad Pathway Checklist 1/10/19

CLASS OF 2023 AND BEYOND

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

QUANTITATIVE REASONING COURSES

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

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

Business, Marketing, and Information Technology

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

Engineering and Technology

Civil Engineering and Architecture
Engineering Design and Development
Principles of Engineering

Social Studies

Economics
AP Macroeconomics
AP Microeconomics

Science

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

Trade and Industrial

Advanced Manufacturing II
Architectural Drafting and Design II
Construction Trades II
Precision Machining I
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, commencement seating, etc., but due to time restraints, this cannot be guaranteed.

EARLY GRADUATION

Students who have completed all graduation requirements may graduate early. Students need to plan ahead 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 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 year in advance. Those electing to graduate in January of their senior year should speak to their counselor the end of first semester – junior year. **Students electing to graduate in three years should speak to their counselors no later than the end of second semester – sophomore year.**

Bell Schedule

Every class meets three days a week. Monday and Thursday are Blue Days. Tuesday and Friday are White Days. Blue and White days consist of four 90 minute blocks. All classes meet on Wednesday for approximately 50 minutes. Students are able to take 7 courses in a semester plus an extra 90 minute period that meets twice weekly on White Days called Pathways to Excellence (PtE). During the first 30 minutes of PtE, students in 9th grade will earn credit for Preparing for College and Careers. 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

Monday (Blue Day)	Tuesday (White Day)	Wednesday (Traditional Day)	Thursday (Blue Day)	Friday (White Day)
1st Period 7:15 - 8:47 (92)	5th Period 7:15 - 8:47 (92)	1st Period 7:15 - 8:03 (48)	1st Period 7:15 - 8:47 (92)	5th Period 7:15 - 8:47 (92)
		2nd Period 8:09 - 8:57 (48)		
2nd Period 8:53 - 10:25 (92)	Pathways to Excellence 8:53 - 10:25 (92) 8:53 - 9:25 CTE 9:25 - 10:25 Academic Assistance	5th Period 9:03 - 9:51 (48)	2nd Period 8:53 - 10:25 (92)	Pathways to Excellence 8:53 - 10:25 (92) 8:53 - 9:25 CTE 9:25 - 10:25 Academic Assistance
		6th Period 9:57 - 10:45 (48)		
3rd Period 10:31 - 12:31 (120) A Lunch = 10:25 - 10:55 B Lunch = 10:57 - 11:27 C Lunch = 11:29 - 11:59 D Lunch = 12:01 - 12:31	6th Period 10:31 - 12:31 (120) A Lunch = 10:25 - 10:55 B Lunch = 10:57 - 11:27 C Lunch = 11:29 - 11:59 D Lunch = 12:01 - 12:31	3rd Period 10:51 - 12:21 (90) A Lunch = 10:45 - 11:15 B Lunch = 11:18 - 11:48 C Lunch = 11:51 - 12:21	3rd Period 10:31 - 12:31 (120) A Lunch = 10:25 - 10:55 B Lunch = 10:57 - 11:27 C Lunch = 11:29 - 11:59 D Lunch = 12:01 - 12:31	6th Period 10:31 - 12:31 (120) A Lunch = 10:25 - 10:55 B Lunch = 10:57 - 11:27 C Lunch = 11:29 - 11:59 D Lunch = 12:01 - 12:31
		4th Period 12:27 - 1:15 (48)		
4th Period 12:37 - 2:09 (92)	7th Period 12:37 - 2:09 (92)	7th Period 1:21 - 2:09 (48)	4th Period 12:37 - 2:09 (92)	7th Period 12:37 - 2:09 (92)

Pathways to Excellence (PtE) 8:51 – 10:21

Grade	Course	Credits	Description
9	Preparing for College and Careers	1/year	The focus of the course is the impact of today's choices on tomorrow's possibilities. Topics to be addressed include twenty-first century life and career skills; higher order thinking, communication, leadership, and management processes; exploration of personal aptitudes, interests, values, and goals; examining multiple life roles and responsibilities as individuals and family members; planning and building employability skills; transferring school skills to life and work; and managing personal resources. This course includes reviewing the 16 national career clusters and Indiana's College and Career Pathways, in depth investigation of one or more pathways, reviewing graduation plans, developing career plans, and developing personal and career portfolios. A project based approach, including computer and technology applications, cooperative ventures between school and community, simulations, and real life experiences.
10	Sophomore Seminar	0	Grade level specific activities; revisit 4 Year Plan, English and Math ISTEP preparation, testing strategies, targeted instruction for improvement, continued development of career plans and pathways, interest inventories.
11	Junior Seminar	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 Seminar	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

STUDENT RECORDS

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

REPORT CARDS

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

GRADING STANDARDS

Percentage	Letter Grade	GPA Index	Weighted GPA Index
100% - 92.5%	A	4.00	5.0
92.49% - 89.5%	A-	3.67	4.67
89.49% - 86.5%	B+	3.33	4.33
86.49% - 82.5%	B	3.00	4.0
82.49% - 79.5%	B-	2.67	3.67
79.49% - 76.5%	C+	2.33	3.33
76.49% - 72.5%	C	2.00	3.0
72.49% - 69.5%	C-	1.67	2.67
69.49% - 66.5%	D+	1.33	1.33
66.49% - 62.5%	D	1.00	1.0
62.29% - 59.5%	D-	0.67	.67
59.49% - 0	F	0	0
Audit (no credit)	W/F, W, N	0	0

All accelerated classes, identified on page 11, 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. Honor roll is based on a 3.0 GPA. The requirement for high honor roll is a 3.67 GPA.

GRADE REPLACEMENT POLICY

When a student retakes a course, only the higher grade will be calculated in the student's grade point average and the lower grade will be treated as an audit. An audit grade appears on a transcript as an "N". **All courses will remain on the transcript.**

OUTSIDE CREDIT

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

CREDIT RECOVERY

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

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

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

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

DUAL CREDIT (on-campus)

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



Lake Central High School

Dual Credit*

High School Course	HS CODE	College Course	Institution	Approx. Cost	No. of College Credit Hours	GPA/Requirements	Core Transfer Library
Composition	E1090D	ENG - 104	Purdue Northwest	\$25/cr hour	3	3	Yes
United States History	H1542D	Hist - 152	Purdue Northwest	\$25/cr hour	3	3	Yes
Chemistry I Honors (ACP-Advanced College Project)	S30901	C-101/C-121	Indiana University Bloomington	\$25/cr hour	5	2.75	Yes
Anatomy & Physiology Honors (ACP - Advanced College Project)	S5276H	BIO PHSL130/N213	Indiana University Bloomington	\$25/cr hour	5	2.75	No
Administrative and Office Management	B52680	BUSN - 105	IVY Tech	free	3	Writing: ACT English 17, PSAT 46, SAT 460, ITCC ACCUPLACER Custom Write Placer 4, ACCUPLACER Standard 80 sentence skills Reading: ACT 18, PSAT 46, SAT 460, IDOE/ITCC ACCUPLACER Custom 69, ACCUPLACER Standard 76	No
Business Law	B45600	BUSN-201	IVY Tech	free	3		No
Digital Applications and Responsibility I	B45280	CINS- 101	IVY Tech	free	3		No
Intro to Entrepreneurship	B59670	ENTR-101/105	IVY Tech	free	6		No
Principles of Business Management	B45620	BUSN-101	IVY Tech	free	3		Yes
Principles of Marketing	B59140	MKTG-101	IVY Tech	free	3	Writing: ACT English 17, PSAT 46, SAT 460, ITCC ACCUPLACER Custom Write Placer 4, ACCUPLACER Standard 80 sentence skills Reading: ACT 18, PSAT 46, SAT 460, IDOE/ITCC ACCUPLACER Custom 69, ACCUPLACER Standard 76 Math: ACT 18, PSAT 46, SAT 460, ACCUPLACER 40 ELEM ALG or 60 ARITH, IDOE/ITCC ACCUPLACER ELEM ALG 45	No
Strategic Marketing	B59180	MKTG-230	IVY Tech	free	3	PREREQUISITE: MKTG 101 Principles of Marketing	No
Computer Science I	B48010	CINS-137	IVY Tech	free	3	Writing: ACT English 17, PSAT 46, SAT 460, ITCC ACCUPLACER Custom Write Placer 4, ACCUPLACER Standard 80 sentence skills Reading: ACT 18, PSAT 46, SAT 460, IDOE/ITCC ACCUPLACER Custom 69, ACCUPLACER Standard 76 Math: ACT 18, PSAT 46, SAT 460, ACCUPLACER 40 ELEM ALG or 60 ARITH, IDOE/ITCC ACCUPLACER ELEM ALG 45	No
Computer Science II	B52360	CINS-121	IVY Tech	free	3	PREREQUISITES: SDEV 120 Computing Logic. COREQUISITES: SDEV 120 Computing Logic.	No
Automotive Technology	V55100	AUTI-100	IVY Tech	free	3	None	No
Automotive Technology	V55100	AUTI-111	IVY Tech	free	3	PREREQUISITE or COREQUISITE: AUTC 100 Introduction to Automotive	No
Automotive Technology	V55100	AUTI-121	IVY Tech	free	3	PREREQUISITE or COREQUISITE: AUTI 111, Electrical Systems I or AUTC 113 Electrical and Electronics I	No
Automotive Technology	V55100	AUTI-122	IVY Tech	free	3	PREREQUISITE or COREQUISITE: AUTI 111, Electrical Systems I or AUTC 113 Electrical and Electronics I	No
Precision Machining I & II	V57820	MTTC-101	IVY Tech	free	3	None	No
Precision Machining I & II	V57820	MTTC-110	IVY Tech	free	3	None	No
Intro To Engineering PLTW	V48120	DESN-101	IVY Tech	free	3	None	No
Principles of Eng. PLTW	V48140	DESN-104	IVY Tech	free	3	PREREQUISITE: DESN 101	No
Civil Engineering Architecture PLTW	V48200	DESN-105	IVY Tech	free	3	PREREQUISITE: DESN 101 & DESN 104	No
Graphic Imaging Tech II	V55720	DESN 120/15)	Vincennes University	free	6	None	No

Lake Central High School

Dual Credit*

High School Course	HS CODE	College Course	Institution	Approx. Cost	College Credit Hours	GPA/Requirements	Transfer Library
Trigonometry	M25660	MATH 137	IVY Tech	free	3	Pre-reqs: College ready in Math	Yes
Pre-calculus	M25640	MATH 136	IVY Tech	free	3	Pre-reqs: College ready in Math	Yes
Calculus, AB	M25620	MATH 211	IVY Tech	free	4	Pre-reqs: completion of MATH 136 and MATH 137	Yes
Calculus, BC	M25720	MATH 211	IVY Tech	free	4	Cohorted Course Sequence	Yes
Calculus, BC	M25720	MATH 212	IVY Tech	free	4	Cohorted Course Sequence	Yes
Pre-calculus, Honors	M25640	MATH 136	IVY Tech	free	3	Pre-reqs: College ready in Math	Yes
Trigonometry, Honors	M25660	MATH 137	IVY Tech	free	3	Pre-reqs: College ready in Math	Yes

*Courses are subject to change based on University requirements.

HONORS/Pre-AP/ADVANCED PLACEMENT (AP) CLASSES

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 23, 2020 (6 weeks from the start of school). Teachers will track the student's progress and complete a Level Change Form to be reviewed by the student's team. This team includes the assistant principal, dean, school counselor, teacher, department head, and parent. Students dropping a class after the first six weeks will receive a W/F, may only drop to a study hall, and cannot have another study hall already in their schedule. Students performing below a weighted 3.0 for the semester should give serious consideration to transferring to a regular course second semester. Teachers are encouraged to and may recommend a student's transfer from a regular course to an honors course if class performance is exceptional.

Students are eligible to take the AP courses listed for their grade or any course from a previous grade level. Recommended courses, if applicable, should be completed prior to enrolling in an Advanced Placement course. Students may be recommended or advised on specific course placement. These recommendations are made to ensure a student will be challenged yet academically successful. In the event a student/family feels the recommendation is not appropriate, students or parents may submit a Course Recommendation Override form. The student's academic team will meet with the student, parent, counselor, assistant principal, and the department head of the academic course in question to determine final placement. Students who enroll in a course contrary to the final academic team recommendation and chooses to withdraw should be mindful of withdraw deadlines to avoid a W/F on their transcript.

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

Advanced Placement Courses (AP)

Art and Music

AP 2-D Art and Design
AP 3-D Art and Design
AP Music Theory

Business

AP Computer Science A
AP Principles of Computer Science

English

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

Math

AP Statistics
AP Calculus AB
AP Calculus BC

Science

AP Biology
AP Chemistry
AP Environmental Science
AP Physics 1
AP Physics C

Social Studies

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

Interdisciplinary

AP Seminar

Honors Courses

English

English 9 Honors Pre-AP
English 10 Honors Pre-AP
Student Media Honors
Mass Media Honors

Mathematics

Algebra II Honors Pre-AP
Geometry Honors Pre-AP
Pre-Calculus/Trig Pre-AP Honors

Science

Anatomy & Physiology Honors
Biology Pre-AP Honors
Chemistry Pre-AP Honors
Chemistry Honors (ACP 1)
Chemistry Honors II

World Languages

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

IMPORTANT AP CHANGES FOR 2019-2020 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 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 September/October of 2020 for yearlong and first semester courses, and in February, 2021 for second semester courses.

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, May 1, 2020**. Any students requesting schedule changes **after May 1, 2020**, will need to complete a **Schedule Change Request** form. This **must be** turned into Guidance no later than **Friday, July 31, 2020 by 3:00pm**. This cannot be emailed or faxed. The **Schedule Change Committee will review requests from Monday, August 3 through Thursday, August 6**. **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 31**, will need to complete a **Schedule Change Request** form and return it to Guidance **no later than Monday, August 17, 2020 by 2:15pm**. This must be physically dropped off to Guidance and cannot be emailed or faxed. These forms will be reviewed by a **Schedule Change Committee** and approved requests will be completed by **Tuesday, August 18, 2020**. Requests that are denied will be notified via email.

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

Level changes must be **initiated by teachers no later than Tuesday, September 22, 2020**. 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.

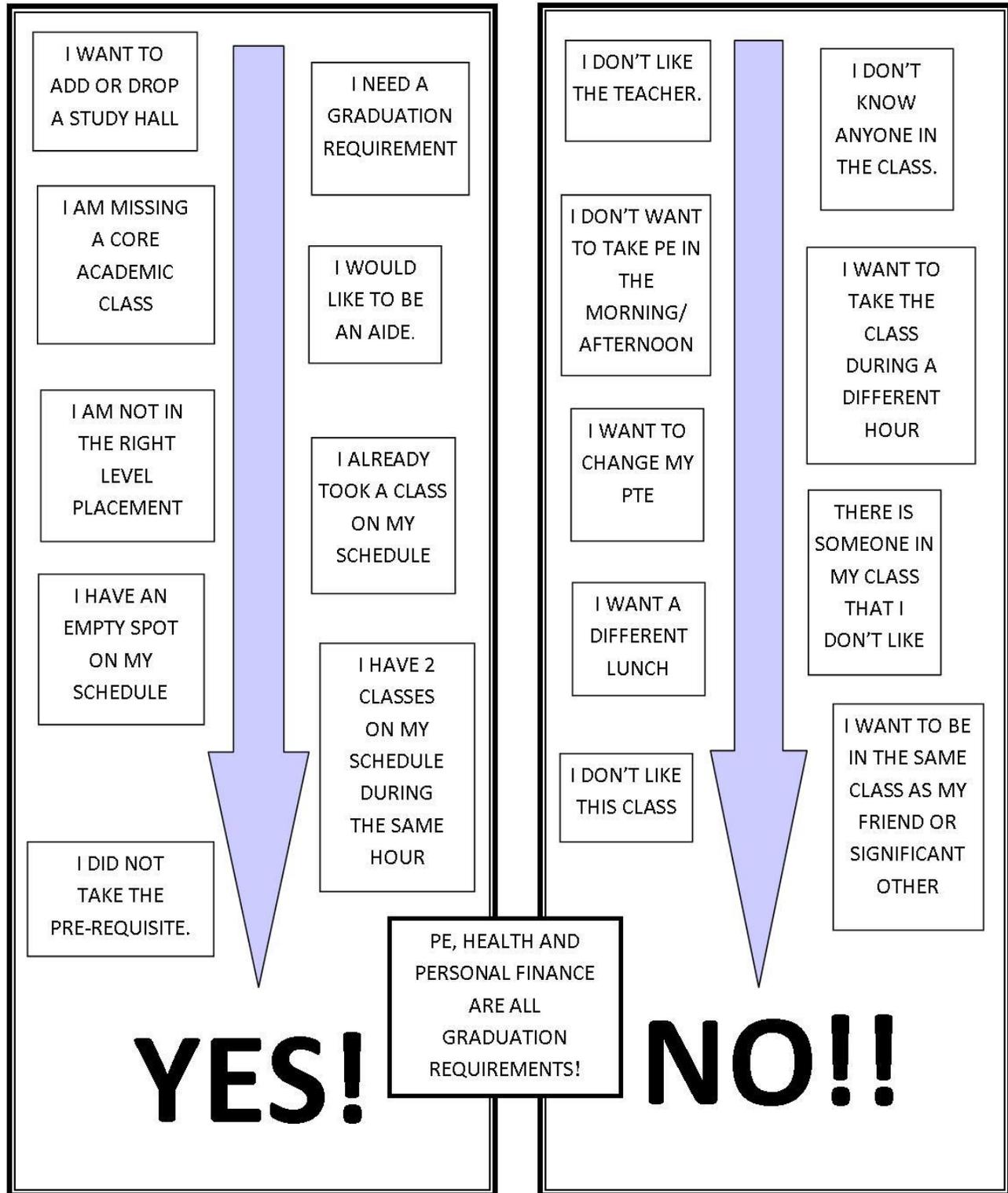
A student's schedule may also be changed for the following reasons:

- 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



LCHS LIBRARY COMMONS

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

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

Library Hours: 6:50 AM – 2:50 PM

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

PtE:

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

Study Hall:

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



LAKE CENTRAL HIGH SCHOOL 2020-2021 COURSE SELECTION SHEET

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

Honors				AP			
CORE COURSES							
ENGLISH				Grade Level			
English 9	R			9			
English 9 with Lab				9			
Pre-AP English 9 Honors				9			
English 10	R			10			
English 10 with Lab				10			
Pre-AP English 10 Honors				10			
English 11	R				11		
English 11 AP Language & Comp.					11		
Composition (s)	R	D				12	
World Literature (s)	R					12	
English 12 AP Literature & Comp.						12	
Speech & Communication (s)						12	
Film Literature (s)						11	12
English as a New Language				9	10	11	12
MATHEMATICS				Grade Level			
Algebra I	R			9			
Algebra I with Lab				9			
Geometry	R				10		
Geometry with Lab					10		
Pre-AP Geometry Honors				9	10		
Algebra II	R				10	11	12
Pre-AP Algebra II Honors				9	10	11	12
PreCalculus (s)	D				10	11	12
Trigonometry (s)	D				11	12	
Pre-AP-Pre Calculus/Trigonometry Honors	D				11	12	
Statistics						11	12
AP Statistics	Q					11	12
AP Calculus AB	Q	D				11	12
AP Calculus BC	Q	D				12	
SCIENCE				Grade Level			
Biology	R			9			
Pre-AP Biology Honors				9			
Principles of Biomedical Science-PLTW	P			9	10		
Human Body Systems-PLTW	F				10	11	12
Chemistry	R	Q			10	11	12
Pre-AP Chemistry Honors	Q				10	11	12
Integrated Chemistry Physics	Q				10	11	12
Chemistry I Honors (ACP)	Q	D			10	11	12
Chemistry II Honors (ACP)	Q	D				11	12
Anatomy & Physiology Honors (ACP)	D					11	12
Earth & Space Science					10	11	12
Environmental Science (s)					10	11	12
Forensic Science (s)						11	12
Human Genetics (s)					10	11	12
Physics	Q				10	11	12
Zoology (s)						11	12
AP Biology	Q				10	11	12
AP Chemistry (2 periods)	Q					11	12
AP Physics I	Q					11	12
AP Physics C	Q					11	12
AP Environmental Science	Q				10	11	12
SOCIAL STUDIES				Grade Level			
World History				9	10	11	12
AP Human Geography/Geo Hist of World				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 & Politics (s)							11
Economics (s)	R	Q					12
AP Macroeconomics (s)	Q						11
AP Microeconomics (s)	Q						11
Topics in History: Contemp U.S. History (s)	P						11
Psychology (s)					10	11	12
AP Psychology					10	11	12
Sociology (s)					10	11	12
Ethnic Studies (s)					9	10	11
Indiana Studies (s)					9	10	11
INTERDISCIPLINARY				Grade Level			
AP Seminar	P						11
PHYSICAL EDUCATION				Grade Level			
Secondary Phy Ed I/II Aquatic Fit(s)	R			9			
Secondary Phy Ed I/II Gym(s)	R			9			
Physical Conditioning					10	11	12
Sports Conditioning(s)					10	11	12
Life Saving & Water Safety(s)	W				10	11	12
Lifetime Fitness (s)					10	11	12
Health Education (s)	R				10	11	12
Life Guarding	S				10	11	12
Advanced Life Saving(s)	W				10	11	12
Intro to Sports Medicine (s)	W				10	11	12
Advanced Health (s)						11	12
Swimming for Fitness					10	11	12
Core Conditioning					10	11	12

LAKE CENTRAL HIGH SCHOOL 2020-2021 COURSE SELECTION SHEET CONTINUED

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

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	
2D Art V/VI					11	12	
3D Art I* (s)				9	10	11	12
3D Art II* (s)				9	10	11	12
3D Art III/IV				10	11	12	
Ceramics I (s)*				9	10	11	12
Ceramics II (s)*				9	10	11	12
Ceramics III/IV	P			10	11	12	
AP 2-D Art and Design*	F				11	12	
AP 3-D Art and Design (Ceramics)*	P				11	12	

COMMUNICATIVE ARTS				Grade Level			
Student Media*	P			10	11	12	
Student Media Honors (2 Periods)*	P				11	12	
Theatre Arts*	F			9	10	11	12
Theatre Arts II*	W P			10	11	12	
Theatre Production Management	W P			9	10	11	12
Journalism: Publication Design (s)				9	10	11	12
Journalism: Writing (s)				9	10	11	12
Photography (s)*				9	10	11	12
Public Relations	F				11	12	

WORLD LANGUAGES

WORLD LANGUAGES				Grade Level			
French I, II				9	10	11	12
French III Honors	P				11	12	
French IV Honors	P					12	
German I, II				9	10	11	12
German III Honors						11	12
German IV Honors							12
Spanish I, II, III, IV				9	10	11	12
Spanish III Honors						11	12
Spanish IV Honors							12

AP

ARTS

MUSIC				Grade Level			
Junior Treble Choir*	F			9	10	11	12
Senior Treble Choir*	F				10	11	12
Varsity Choir*	F			9	10	11	12
Concert Choir*	F				10	11	12
Beginning Concert Band*	F			9			
Symphonic Band*	F				10	11	12
Concert Band*	P			9	10	11	12
Advanced Concert Band*	F				10	11	12
Wind Ensemble*	F				10	11	12
Percussion Ensemble*	P			9	10	11	12
Instrumental Ensemble I (s)*	F			9	10	11	12
Instrumental Ensemble II (s)*	F			9	10	11	12
Advanced Jazz Ensemble*	F				10	11	12
Beginning Jazz Ensemble*	F			9	10	11	12
Electronic Music (s)*				9	10	11	12
Music Theory I (s)*				9	10	11	12
AP Music Theory*					10	11	12
Music History/Appreciation (s)*				9	10	11	12
Hand Bells I*	P			9	10	11	12
Hand Bells II*	F				10	11	12
Introduction to Guitar (s)*				9	10	11	12

CAREER AND TECHNICAL EDUCATION

ENGINEERING TECHNOLOGY				Grade Level			
Intro to Engineering Design FLT/W		D		9	10	11	12
Principles of Engineering PL/TW (Drafting)		Q D			10	11	12
Civil Engineering Architecture PL/TW		Q D				11	12

LAKE CENTRAL HIGH SCHOOL 2020-2021 COURSE SELECTION SHEET CONTINUED

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

Honors AP

CAREER AND TECHNICAL EDUCATION

BUSINESS			Grade Level			
Intro to Business	P		9	10	11	12
Entrepreneurship and New Ventures Capstone	F D		10	11	12	
Advanced Business Management	D		10	11	12	
Principles of Business Management	D		10	11	12	
Introduction to Accounting			9	10	11	12
Advanced Accounting	Q D		10	11	12	
Digital Apps and Responsibility I (s)	D		9	10	11	12
Digital Apps and Responsibility II (s)			9	10	11	12
Web Design (s)			9	10	11	12
Computer Illustration and Graphics (s)			10	11	12	
Business Law and Ethics	D		10	11	12	
Personal Finance and Responsibility (s)	R Q			11	12	
Principles of Marketing	D		9	10	11	12
Strategic Marketing	D			11	12	
Merchandising (Fashion)			9	10	11	12
Sports & Entertainment Marketing			9	10	11	12
Preparing for College & Careers (s)			9			
Computer Science I	Q D		9	10	11	12
Computer Science II	Q D		9	10	11	12
Cybersecurity PLTW	Q P		10	11	12	
AP Principles of Computer Science	Q		9	10	11	12
AP Computer Science A	Q		10	11	12	

FAMILY & CONSUMER SCIENCE			Grade Level			
Nutrition & Wellness I (s)	P		9	10	11	12
Advanced Nutrition & Wellness (s)	P		9	10	11	12
Human Dev. & Family Wellness (s)	P		9	10	11	12
Human and Social Services I	P			11	12	
Human and Social Services II	P				12	
Housing & Interior Design Careers (s)*	P		9	10	11	12
Intro to Culinary Arts & Hosp. Mgmt.	P		10	11	12	
Child Development & Parenting (s)			9	10	11	12
Advanced Child Development (s)	P		9	10	11	12
Interpersonal Relationships (s)	P		9	10	11	12

TECHNICAL EDUCATION			Grade Level			
Graphic Design and Layout			9	10	11	12
Graphic Imaging Tech (Graph II/III) (3pd)	D P		10	11	12	
Intro to Manufacturing			9	10	11	12
Precision Mach II/III (Mach II/III) (3pd)	Q D P		10	11	12	
Introduction to Transportation			9	10	11	12
Auto Services Technology (3pd) AM or PM	D P			11	12	
Don Roberts Cosmetology Program (4pd)	P			11	12	

MISCELLANEOUS			Grade Level			
Peer Mentoring (s)	S		9	10	11	12
Peer Tutoring (s)	S				11	12
Education Professions I (1-3 periods)	W				11	12
College Course (off campus)						12
Study Hall (no credit)			9	10	11	12
Community Service (s) (no credit)	S					12
Work Based Learning (3 periods)	W				11	12
Emergency Medical Services-Practitioner	W					12
Independent Research						12

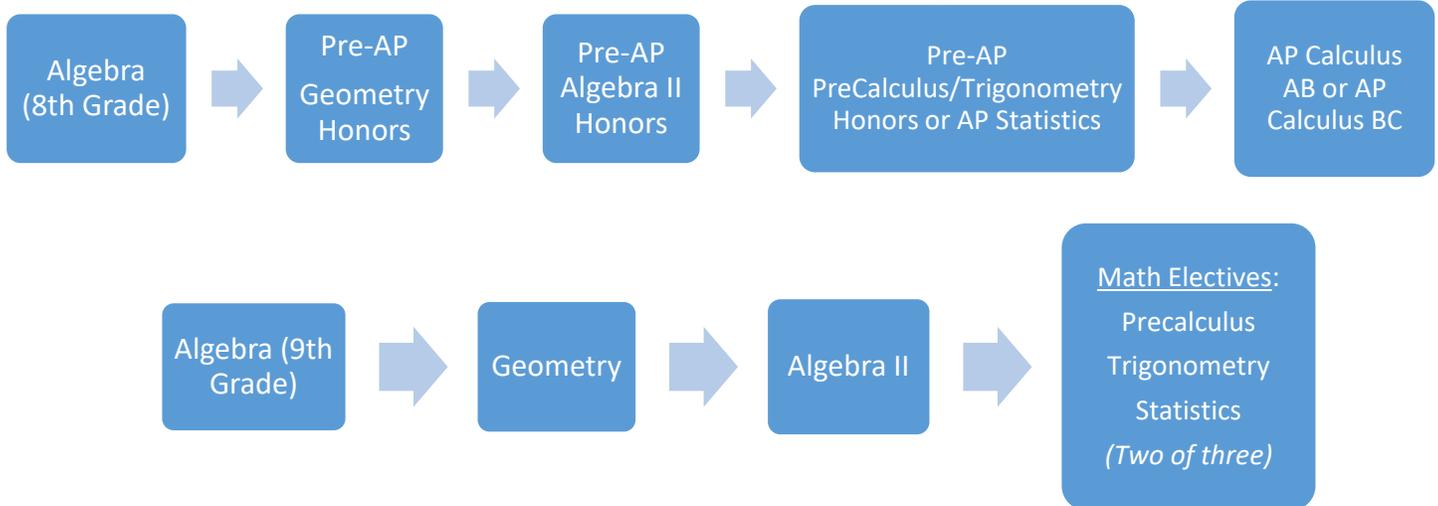
AREA CAREER CENTER (4 PERIODS)			Grade Level			
Auto Technology	W				11	12
Collision & Refinishing Technology	W				11	12
Computer Information Technology	W				11	12
Construction Technology	Q W				11	12
Criminal Justice and Law	W				11	12
Culinary & Pastry Arts Sciences	W				11	12
Dental Assisting	W				11	12
Digital Imaging & Design	W				11	12
Early Childhood Education Services	W				11	12
Emergency Medical Services	W					12
Eng PLTW & Adv. Manufacturing	W				11	12
Health Careers	W				11	12
Multimedia Editing & Production	W				11	12
Welding	W				11	12

COURSE DESCRIPTIONS

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

MATHEMATICS

MATH Course Sequencing



Algebra I (M25200)

2 semesters, 2 credits

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

Geometry (M25320)

2 semesters, 2 credits

Recommended: Algebra I

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

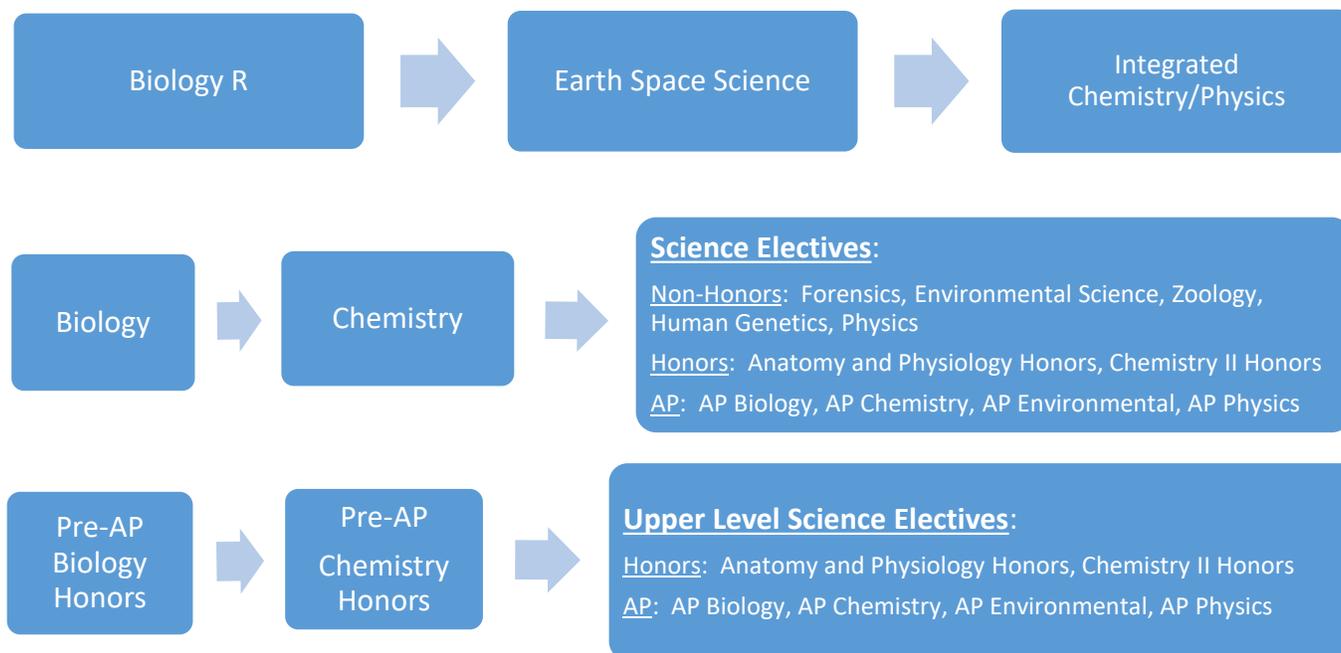
Pre-AP Geometry Honors (M2532H)

2 semesters, 2 credits

Recommended: Grade of A or B in Algebra I

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

Science Course Sequencing



Biology I (S30240)

2 semesters, 2 credits

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

Pre-AP Biology I Honors (S3024H)

2 semesters, 2 credits

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

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

Principles of Biomedical Science (S52180)

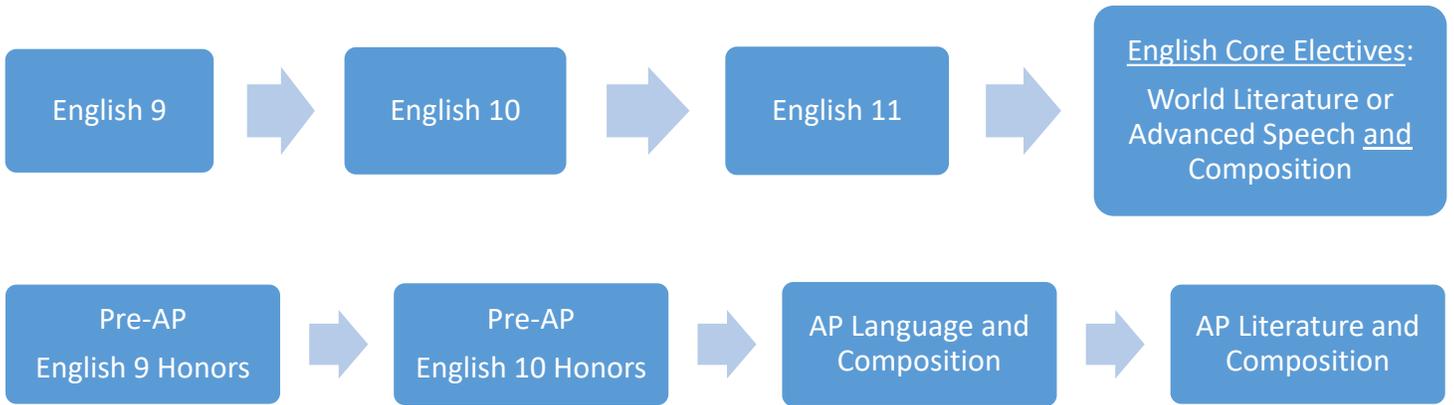
2 semesters, 2 credits

Recommended: Biology I or Concurrent Enrollment

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

ENGLISH

ENGLISH Course Sequencing



English 9 (E10020)

2 semesters, 2 credits

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

Pre-AP English 9 Honors (E1002H)

2 semesters, 2 credits

English 9 Honors is an accelerated curriculum. It involves a more in-depth study of various units than the general curriculum. Grammar study focuses on the grammar and mechanics of writing. Composition involves the writing process. Various types of writing are taught. A genre approach is used for literature and longer works, as well as poetry, nonfiction, informational text and short stories, are read. Vocabulary is taught both as part of the reading selections and as a separate entity. Students write and deliver grade-appropriate oral and multimedia presentations. This course has required Summer Reading. Selections will be available before the end of the 2020 school year.

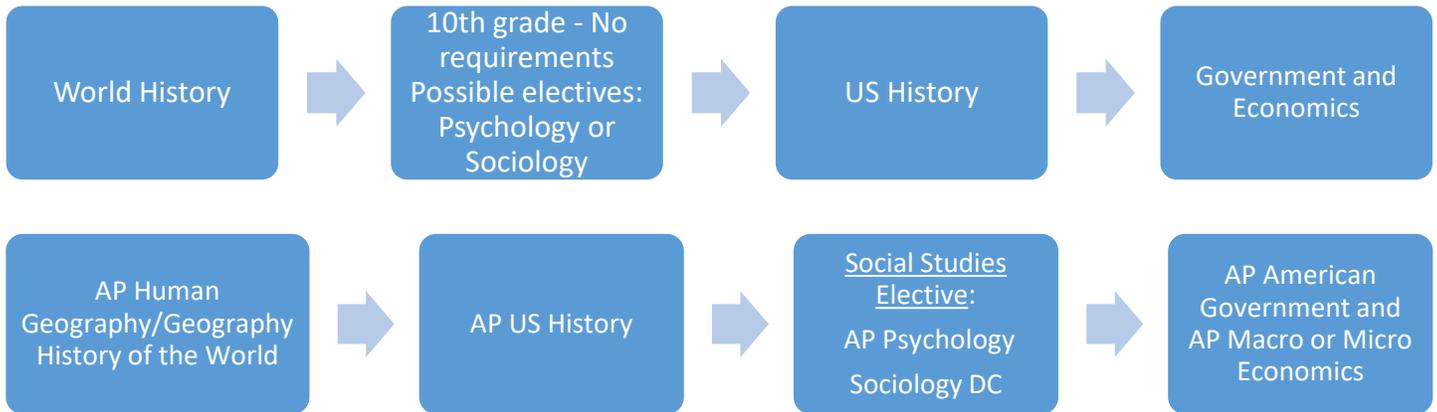
English as a New Language (E10120)

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.

SOCIAL STUDIES

SOCIAL STUDIES Course Sequencing



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

2 semesters, 4 credits

Recommended: B in English

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

World History (H15480)

2 semesters, 2 credits

While historical events are unique, they often are driven by similar, repeated forces. In learning the history of our world, this class will focus on eight themes: power and authority, religious and ethical systems, revolution, interactions with environment, economics, cultural interaction, empire building, and science and technology. This course is recommended to be taken before AP U.S. History. Students will be asked to analyze primary

sources and to write essays displaying their knowledge and comprehension of the materials discussed.

Ethnic Studies (H15160)

1 semester, 1 credit

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

Indiana Studies (H15180)

1 semester, 1 credit

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

WORLD LANGUAGES

Level 1 World Languages

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

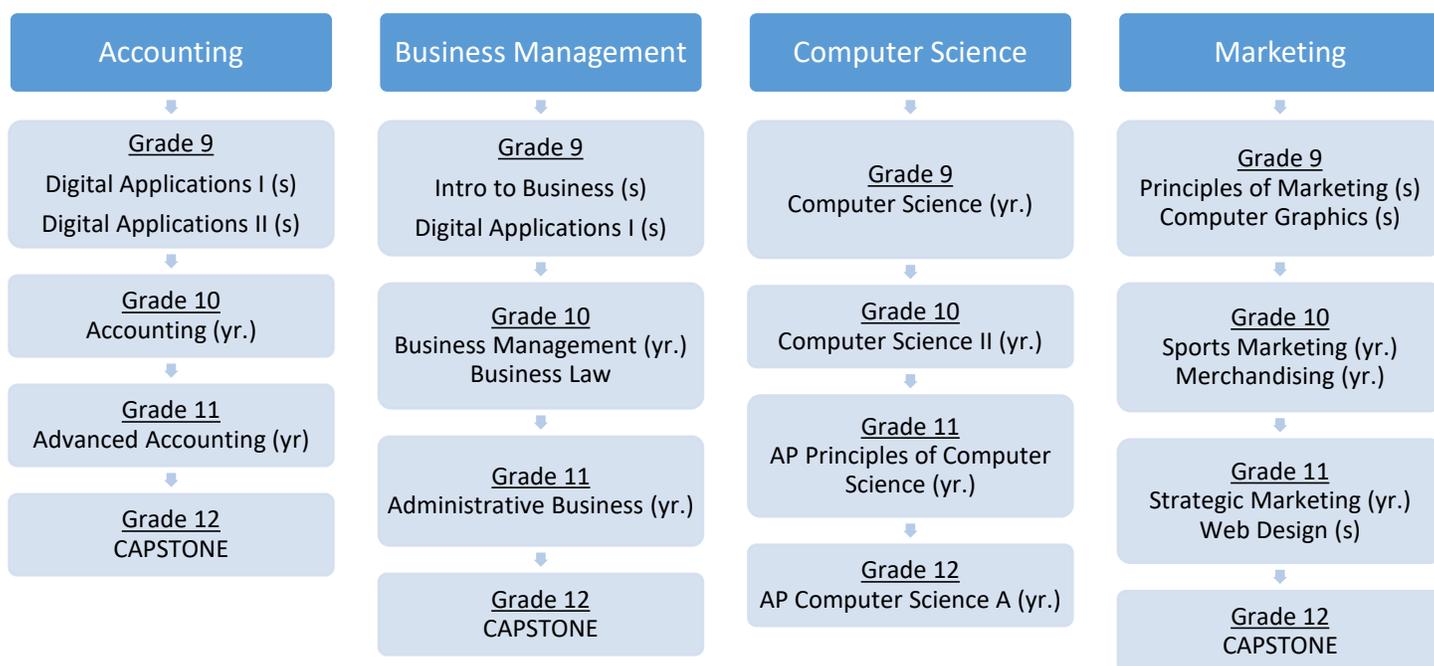
2 semesters, 2 credits

Recommended Prerequisite: C or better in previous English course

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

BUSINESS

Grade 9: Career Exploration PtE



Dual Credit: Principles of Business Management, Administrative Office Management, Digital Applications and Responsibility, Principles of Marketing, Strategic Marketing, Business Law and Ethics, Computer Science I, Computer Science II, and AP Computer Science A

****All Juniors will take Personal Financial Responsibility (1 semester-required for graduation)**

Digital Applications and Responsibility (B45280)

1 semester, 1 credit

Dual Credit: CINS 101 Ivy Tech

Digital Applications and Responsibility introduces students to the physical components and operation of computers. Technology is used to build students decision-making and problem-solving skills. Students should be given the opportunity to seek an industry-recognized digital literacy certification. Knowledge of hardware, software, and hands-on training using Microsoft Office Professional Edition will lay the foundation for success in college and future careers

Digital Applications and Responsibility II (ICT-2) (B45282)

1 semester, 1 credit

Recommended: ICT-1

Expansion of MS Office Professional software training provides students with the knowledge and skills necessary for success in college and the business world. Integration of application software, group collaboration, decision-making and problem solving activities helps students gain confidence in using technology. The benefits of the skills learned are lifelong.

Introduction to Business (B45180)

2 semesters, 2 credits

Recommended: ICT

Business Foundations is an introductory business course that examines the American business system in relation to the economic society. It is an introductory business course that studies economics, entrepreneurship, business ownership, organization principles and problems, management, marketing, control facilities, law, risk management, banking, personal finance, administration, careers in business and development practices of American business enterprises. It is designed to get the student started in the world of business, whether as a consumer, an employee, or a citizen. The application of business etiquette and ethics are also included. The course covers business management, entrepreneurship, marketing fundamentals, and business ethics and law. The course further develops business vocabulary and provides an overview of business and the role that business plays in economic, social, and political environments.

Computer Illustration and Graphics (B45160)

1 semester, 1 credit

Recommended: Web Design

Computer Illustration and Graphics introduces students to the computer's use in visual communication. The focus of the course is on basic computer terminology and use, mastering fundamental skills, and developing efficient working styles. These skills are then developed by creating work with imaging, drawing, interactive, and page layout software. The course includes organized learning experiences that incorporate a variety of visual art techniques as they relate to the design and execution of layouts and illustrations for advertising, displays, promotional materials, and instructional manuals. Instruction also covers advertising theory and preparation of copy, lettering, posters, produce vector illustrations, graphics and logos, and artwork in addition to incorporation of photographic images. Communication skills will be emphasized through the study of effective methods used to design products.

Computer Science I (B48010)

2 semesters, 2 credits

Dual Credit: CINS 137 Ivy Tech

Quantitative Reasoning Course

Recommended: Algebra I

Computer Programming I (Visual Basic) is a full-year course designed to provide students with a comprehensive hands-on experience in graphically designing and coding computer programs using the Visual Basic programming language and Visual Studio software. Computer Programming I will cover fundamental concepts of programming through explanations and effects of commands, and hands-on utilization of lab equipment to produce correct output. This course introduces the structured techniques necessary for efficient solution of business-related computer programming logic problems and coding solutions into a high-level language, and includes program flowcharting, pseudo coding, and hierarchy charts as a means of solving these problems. The course covers creating file layouts, print charts, program narratives, user documentation, and system flowcharts for business problems, and reviews algorithm development, flowcharting, input/output techniques, looping, modules, selection structures, file handling, and control breaks. It also offers students an opportunity to apply skills in a laboratory environment. Visual Basic is the only (computer) language being examined and utilized. Demonstrations of business problems and solutions techniques will be reviewed. This course is designed for students who love computers, math, or visually designing computer programs or games. As a capstone project, students will create, design, and code a game using VB controls, Visual Basic code, and the concepts learned in the course. **IT Academy Certification

Merchandising (Fashion) (B59620)

2 semesters, 2 credits

Merchandising is a marketing course providing instruction in the marketing of apparel and accessories of all kinds. Students will enter a world of beauty, style, and promotion. Topics relate to apparel design, selling, pricing, distribution, fashion promotion, visual merchandising, fashion cycles, fashion theories, and career opportunities in the fashion industry

Introduction to Accounting (B45240)

2 semesters, 2 credits

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. Accounting software such as QuickBooks and Peachtree are also learned.

Preparing for College and Careers (B53940)

2 semesters, 1 credit, 9th grade PTE

The premise is that if you like what you do for a living, it doesn't seem much like work. In this class, students will be exposed to career options they never knew were available. They will hear from successful professional people what it takes to rise to the top of their career field. Students will explore their interests, abilities, and values to determine potential career paths. In addition to identifying and investigating career paths, students will learn how to manage their jobs once they've begun work. Students will become knowledgeable consumers of news media to understand how economic, financial, political, national, and world events may impact their careers and career goals. Students will also develop learning strategies and acquire life-long success skills (including time management, prioritization, and problem solving).

Principles of Marketing (B59140)

1 semester, 1 credit

Dual Credit: MKTG 101 Ivy Tech

Want to be a better consumer and learn the fundamentals of marketing? In Principles of Marketing, 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.

Web Design (B45740)

1 semester, 1 credit

Design develops key digital communication skills: design, communication, project management, and Web technology. Key skills are developed in a spiral, as each project adds more challenging skills on foundational proficiencies. Projects range from online logos to electronic portfolios to rich media client Web sites. Each project follows the development process from planning to evaluation. The design and production projects include graphics and images (digital photographs, logo design, page banners, etc.), Web sites (basic client Web sites, Web site redesign, etc.), and rich media (video for the Web, digital narratives, and animation techniques). **IT Academy Certification

FINE ARTS

Fine Arts CORE 40 Credit Options

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

2-D or 3D Art I(s)
2-D or 3D Art II
2-D or 3D Art III/IV
Ceramics I(s)
Ceramics II(s)
Ceramics III/IV
AP 2-D Art and Design
AP 3-D Art and Design
Student Media

Student Media Honors
Theatre Arts
Theatre Arts II
Theatre Production Mgmt.
Photography
Housing & Interior Design
Junior Treble Choir
Senior Treble Choir
Varsity Choir

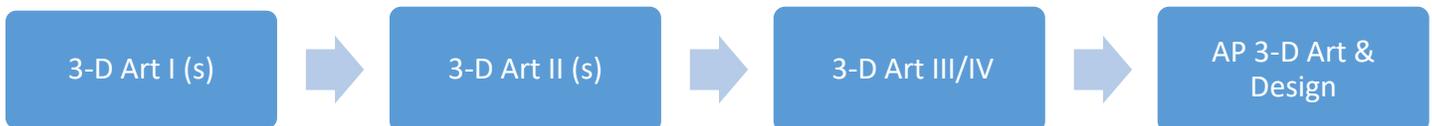
Concert Choir
Beginning Concert Band
Symphonic Band
Concert Band
Advanced Concert Band
Wind Ensemble
Instrumental Ensemble I
Instrumental Ensemble II
Jazz I

Jazz II
Electronic Music
Music Theory
AP Music Theory
Music History/Appreciation
Hand Bells I
Hand Bells II
Introduction to Guitar

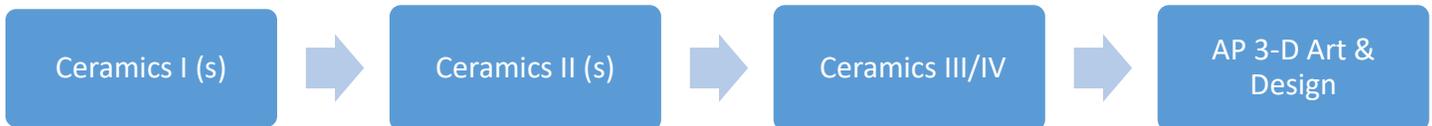
TWO-DIMENSIONAL AP Course Sequencing



THREE-DIMENSIONAL AP Course Sequencing



CERAMICS (3-D) AP Course Sequencing



(s)= Semester Course

2-D Art I (A40000)

1 semester, 1 credit

Art I emphasizes drawing, color theory, and the principles and elements of art. Areas covered are: drawing, painting, printmaking, design, art appreciation, art history, careers, and current trends in art. Students will examine the significance and meaning of their own art, as well as the art done by famous artists. 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. Students will engage in learning experiences that explore art history, art criticism, and studio production. Students must have access to a 35 mm camera. Counts as a Fine Art credit for the AHD.

according to national standards of performance through an examination of completed portfolio work. 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. Course projects include working in the following mediums: sand, clay, wood, fiber, plaster, plastic, 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. Student 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. 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 glazed and staining techniques, visual problem solving, art criticism and self-critique. Counts as a Fine Art credit for the AHD.

COMMUNICATIVE ARTS

Journalism: Publication Design (T1080P)

1 semester, 1 credit

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

Journalism: Writing (T1080W)

1 semester, 1 credit

This course will concentrate on the history of journalism, the basics of news elements, news writing, 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.

Photography (T40620)

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.

Theatre Arts (T42420)

2 semesters, 2 credits

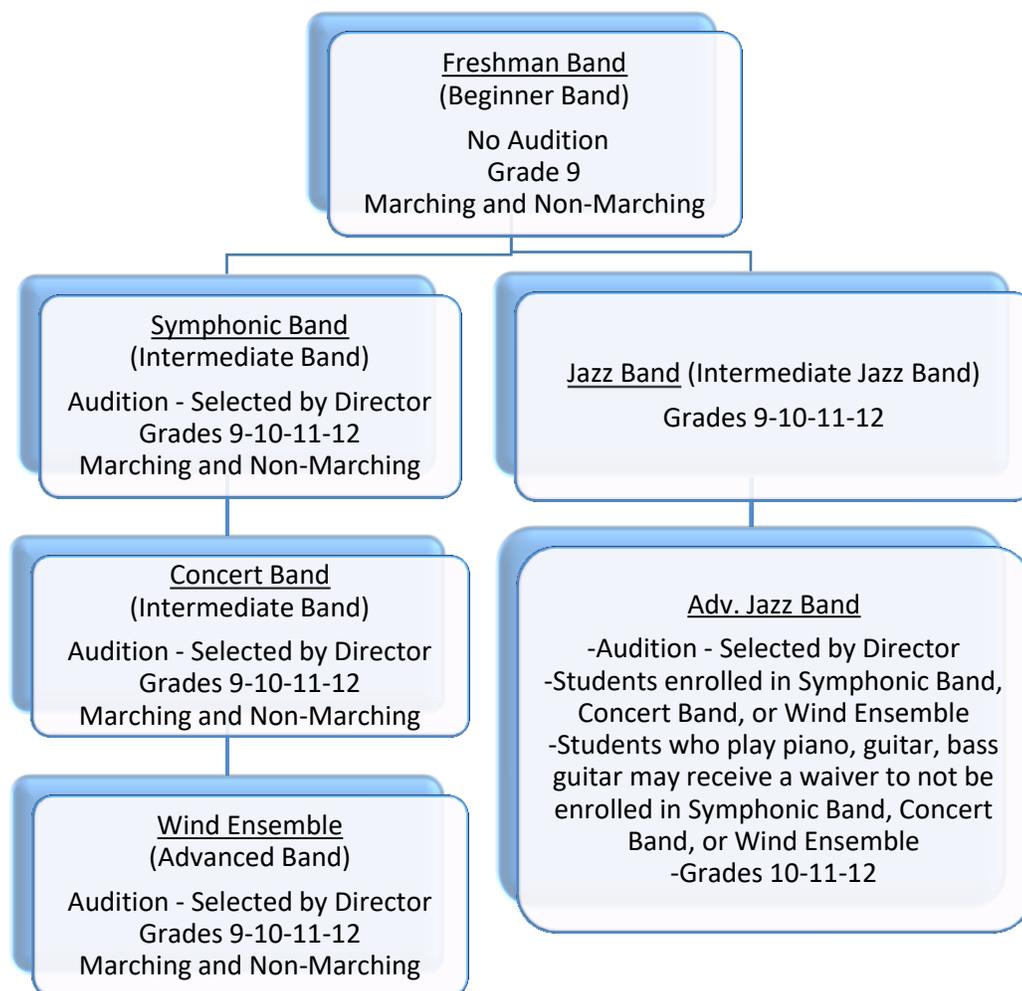
Theatre Arts I is a year-long course for freshmen, sophomores, juniors and seniors. Theater Arts I introduces students to the basics of theater. Students do various activities and exercises that introduce and familiarize them with all aspects of theater. Using the knowledge gained through the study of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

Theatre Production Management (T42480)

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

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

MUSIC (FINE ARTS)



Beginning Concert Band (Marching U41660)

(Non-Marching U4166N)

(Freshman Concert Band)

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

Recommended: Complete formal instruction at the middle school level.

This developmental course is open to all freshmen students who play a band instrument at a beginning to 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.

Intermediate Concert Band (Marching U41600)

(Non-Marching U4160N)

(Symphonic Band) Project Based Learning Course

2 semesters, 2 credits Grades: 10-12

Recommended: Completion of freshman concert band.

This concert band class is open to all students who play a band instrument at an intermediate proficiency or better. 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.

Electronic Music/Music Production (U42020)

1 semester, 1 credit Grades: 9-12

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 designed so that students are enabled to connect, examine, imagine, define, try, extend, refine, and integrate music study into other subject areas. Students will create music on a Synthesizer/Instrument (Guitar or Bass) 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.

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 I: Instrumental Ensemble (U41624)

2 semesters, 2 credits Project Based Learning Course

Recommended: Some note reading ability

This beginning to intermediate level choir consists of 15-30 players chosen by audition. 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: 10-12

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.

Jazz Band (U41642)

Project Based Learning Course

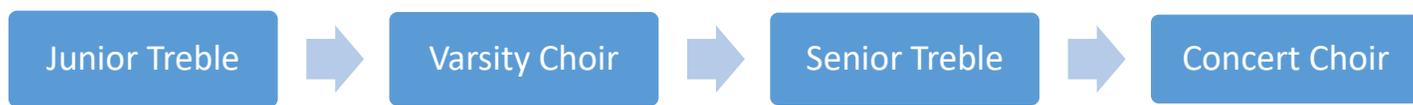
2 semesters, 2 credits Grades: 9-12

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

Percussion Ensemble (U42001)

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, concerts, 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 contest, and participate in auditions for All-State Ensembles.



Junior Treble: Beginning Chorus (U41820)

2 semesters, 2 credits Project Based Learning Course

This is the beginning soprano and alto 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 mailed their guidance counselor saying differently). Counts as a Fine Art credit for the AHD.

FAMILY AND CONSUMER SCIENCES (FACS)

Nutrition & Wellness (C53421)

1 semester, 1 credit Project Based Learning Course

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

Advanced Nutrition & Wellness (C53400)

1 semester, 1 credit Project Based Learning Course

Recommended: Nutrition & Wellness

This is a course which provides an extensive study of nutrition. This course is recommended for all students wanting to improve their nutrition and learn how nutrition affects the body across the lifespan. This course builds on the foundation established in Nutrition and Wellness, which is a required 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. Student's social security number is required to receive CTE funding for this class.

Child Development and Parenting (C53620)

1 semester, 1 credit

This course is an introductory course for all students as a life foundation and academic enrichment; it is especially relevant for students interested in careers that draw on knowledge of children, child development, and nurturing of children. This course addresses issues of child development from conception/prenatal through age 3. It includes the study of prenatal development and birth; growth and development of children; child care giving and nurturing; and support systems for parents and caregivers. A project-based approach that utilizes higher order thinking, communication, leadership, management processes, and fundamentals to college and career success is recommended in order to integrate these topics into the study of child development. Student's social security number is required to receive CTE funding for this class.

Advanced Child Development (C53600)

1 semester, 1 credit Project Based Learning Course

In this course, students will be able to advance their understanding of professional and ethical issues in child development; child growth and development; child development theories, research, and best practices; child health and wellness; teaching and guiding children; special conditions affecting children; and career exploration in child development and nurturing. Students will experience a project-based approach that utilizes higher order thinking, communication, leadership, management, and fundamentals to college and career success. Student's social security number is required to receive vocational funding for this class.

Housing and Interior Design (C53500)

1 semester, 1 credit *Fine Art Credit- Project Based Learning Course

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

Human Development & Family Wellness (C53660)

1 semester, 1 credit Project Based Learning Course

This course provides the opportunity to gain the knowledge and skills of standard first aid and everyday health practices, including simple home nursing techniques. Rescue breathing, choking, and CPR will be studied. Chronic diseases such as cancer, diabetes, and heart diseases are also studied. Student's social security number is required to receive vocational funding for this class. Student's social security number is required to receive vocational funding for this class.

Interpersonal Relationships (C53640)

1 semester, 1 credit Project Based Learning Course

Students will explore the basic concepts of self-understanding and responsibility for behavior with the focus on the importance of a positive self-image in developing and maintaining relationships. Students will also study the importance of setting goals, working within value systems, achieving and changing personal needs, and communication skills that assist all to achieve mature interpersonal relations. Student's social security number is required to receive vocational funding for this class.

CAREER TECHNOLOGY EDUCATION

Graphic Design and Layout (V55500)

(Vocational Graphics I) (V62210)

2 semesters, 2 credits

This course trains qualified students for careers in the printing industry. Emphasis is placed on giving the students a thorough working knowledge and skills in many aspects of the printing industry rather than concentrating on one special area. Areas covered include: history, layout, composition, photograph stripping, plate making, presswork, and bindery. All major processes will be studied with emphasis on offset lithography. Additional topics studied include estimation, paper, links, line-staff relationships, costing, and half-tone photography.

Introduction to Transportation (V47980)

2 semesters, 2 credits

Introduction to Transportation is a preparatory course for Automotive Technology I/II. The student will cover each automotive system and the theory of each system. After the student understands how each system works, the student will perform different types of testing and repair work on the various automotive systems. The Introduction to Transportation will give each student basic auto skills which they will be able to use after completing the first year.

Introduction to Manufacturing (V47840)

2 semesters, 2 credits

Introduction to Manufacturing is designed to give students a fundamental background of the different types of machines in the machine shop. This course provides the opportunity to learn the basic operations of the lathe as well as the milling machine, drill press, surface grinder, saws, and bench work. Emphasis is placed on precision measurement using micrometers, scales, and vernier calipers. Students will machine required projects on the lathes and milling machines for the first part of the year. They will then have the chance to machine projects of their own choice. The Introduction to Manufacturing I program will give each student basic machining and manufacturing knowledge, blueprint reading, and shop safety knowledge which they will be able to use after completing the first year. Student's social security number is required to receive CTE funding for this class.

PHYSICAL EDUCATION

Secondary Physical Education I/II (Pool/Gym) (P35440/P35420)

2 semesters, 2 credits

GRADUATION REQUIREMENT

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

ENGINEERING TECHNOLOGY EDUCATION

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.

MISCELLANEOUS

Peer Mentoring (0502PM)

1 semester, 1 credit Service Based Learning Course

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

Qualifications

Peer Mentors are expected to:

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

Study Hall (10010)

2 semesters, 0 credits

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

CTE CONCENTRATORS

Career-Technical Education Concentrators are groups of courses that create a graduation pathway that demonstrate Postsecondary-Ready Competencies. The following pages list state and locally recognized pathways. These pathways can be completed and fulfill graduation requirements for box 3 Postsecondary- Ready.

Graduation Pathway
Post-Secondary Ready CTE Concentrator Pathways

Cluster: Architecture and Construction Pathway: Construction				
DOE Code	Course		LC	ACC
5580	Construction Trades I	Concentrator Course A		Y
5578	Construction Trades II	Concentrator Course B		Y

Cluster: Arts, AV Tech and Communication Pathway: Interactive Media				
DOE Code	Course		LC	ACC
5232	Interactive Media	Concentrator Course A	Y	
5550	Graphic Design and Layout	Concentrator Course B	Y	

Cluster: Arts, AV Tech and Communication Pathway: Radio and TV				
DOE Code	Course		LC	ACC
5986	Radio and Television I	Concentrator Course A		Y
5992	Radio and Television II	Concentrator Course B		Y

Cluster: Business and Marketing Pathway: Accounting				
DOE Code	Course		LC	ACC
4562	Principles of Business Management	Concentrator Course A	Y	
4522	Advanced Accounting	Concentrator Course B	Y	

Cluster: Business and Marketing Pathway: E & M Business Management Focus				
DOE Code	Course		LC	ACC
4562	Principles of Business Management	Concentrator Course A	Y	
5914	Principles of Marketing	Concentrator Course B	Y	

Cluster: Business and Marketing Pathway: Office Management				
DOE Code	Course		LC	ACC
4562	Principles of Business Management	Concentrator Course A	Y	
5268	Administrative and Office Management	Concentrator Course B	Y	

These are advanced courses that may have prior recommended courses or criteria to ensure success.

Graduation Pathway
Post-Secondary Ready CTE Concentrator Pathways

Cluster: Business and Marketing Pathway: MM-Marketing				
DOE Code	Course		LC	ACC
5914	Principles of Marketing	Concentrator Course A	Y	
5918	Strategic Marketing	Concentrator Course B	Y	

Cluster: Education and Training Pathway: Early Childhood				
DOE Code	Course		LC	ACC
5412	Early Childhood Education I	Concentrator Course A		Y
5406	Early Childhood Education II	Concentrator Course B		Y

Cluster: Education and Training Pathway: Education Careers				
DOE Code	Course		LC	ACC
5408	Education Professions I	Concentrator Course A	Y	
5404	Education Professions II	Concentrator Course B	Y	

Cluster: Hospitality and Human Services Pathway: Cosmetology				
DOE Code	Course		LC	ACC
5802	Cosmetology I	Concentrator Course A	Y	
5806	Cosmetology II	Concentrator Course B	Y	

Cluster: Hospitality and Human Services Pathway: Human and Social Services				
DOE Code	Course		LC	ACC
5336	Human and Social Services I	Concentrator Course A	Y	
5462	Human and Social Services II	Concentrator Course B	Y	

Cluster: STEM/Information Tech Pathway: Human and Social Services				
DOE Code	Course		LC	ACC
4801	Computer Science I	Concentrator Course A	Y	
5236	Computer Science II	Concentrator Course B	Y	

These are advanced courses that may have prior recommended courses or criteria to ensure success.

Graduation Pathway
Post-Secondary Ready CTE Concentrator Pathways

Cluster: Manufacturing and Logistics Pathway: Welding				
DOE Code	Course		LC	ACC
5776	Welding Technology I	Concentrator Course A		Y
5778	Welding Technology II	Concentrator Course B		Y

Cluster: Public Safety Pathway: Criminal Justice				
DOE Code	Course		LC	ACC
5822	Criminal Justice I	Concentrator Course A		Y
5824	Criminal Justice II	Concentrator Course B		Y

Cluster: Public Safety Pathway: EMT/Paramedic				
DOE Code	Course		LC	ACC
5282	Health Science Education I	Concentrator Course A		Y
5210	Emergency Medical Services	Concentrator Course B		Y

Cluster: STEM Pathway: Engineering				
DOE Code	Course		LC	ACC
4814 or 5644	Principles of Engineering PLTW /non PLTW	Concentrator Course A	Y	
4820 or 5650	Civil Engineering and Architecture PLTW/ non PLTW	Concentrator Course B	Y	

Cluster: Transportation Pathway: Auto Collision				
DOE Code	Course		LC	ACC
5514	Automotive Collision Repair I	Concentrator Course A		Y
5544	Automotive Collision Repair II	Concentrator Course B		Y

Cluster: Transportation Pathway: Automotive Technology				
DOE Code	Course		LC	ACC
5510	Automotive Services Technology I	Concentrator Course A	Y	Y
5546	Automotive Services Technology II	Concentrator Course B	Y	Y

These are advanced courses that may have prior recommended courses or criteria to ensure success.