CASCADE HIGH SCHOOL

2024-2025 CURRICULUM HANDBOOK

*POLICIES
*PROCEDURES
*COURSE DESCRIPTIONS

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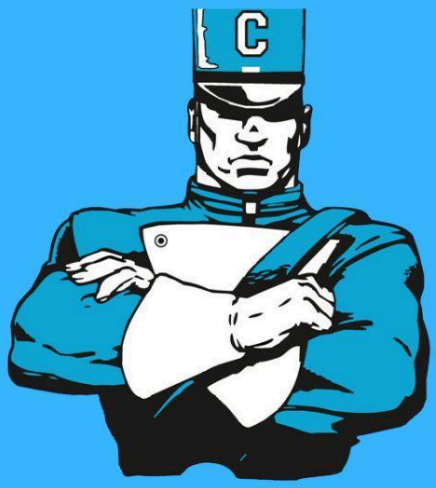


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CASCADE HIGH SCHOOL VISION STATEMENT

It is the vision of Cascade High School to prepare students for college and workforce readiness in the 21st Century.

INTRODUCTION TO CASCADE HIGH SCHOOL

Our community, including learners, educators, and families, is a team committed to providing an excellent education for all students. With this commitment comes an expectation of excellence in achievement, attitude, and actions of all students, employees, and the entire school community. We believe that this expectation will pave the way for our students to attain a level of competence to meet and exceed the challenges they will face now and in the future as they become our community's leaders of tomorrow.

MESSAGE TO STUDENTS AND FAMILIES

Cascade High School is preparing students for the future by delivering instruction at the high school that is infused with engaging and relevant learning for the 21st Century. The *Cascade Cadets Curriculum Handbook* has been prepared to familiarize you with curricular opportunities at Cascade High School and will explain graduation requirements, athletic eligibility, grading policies, course descriptions, advanced placement and dual-credit opportunities, college and career readiness resources, as well as any other matters pertaining to curriculum. Each student is encouraged to take time to focus on career and college goals while planning his/her academic schedule.

Each spring during pre-enrollment, students must make extremely important choices about the courses they will take the following year. You, the student, are the most important factor in this selection. Although teachers, counselors, and parents may advise you, it is you personally who is ultimately responsible for correct and wise choices. For that reason, you must study this guide carefully and give thoughtful consideration to your future goals. The best general advice is to select those subjects that interest you, understanding that all students must master an academic core of courses in order to graduate and pursue post-secondary and/or work opportunities.

Most CHS graduates earn a Core 40 with Academic Honors diploma (47 credits), Core 40 with Technical Honors diploma (47 credits) or Core 40 diploma (40 credits). Students must take the school based SAT and complete the Graduation Pathways to earn a high school diploma in Indiana.

KEY PRACTICES AT CASCADE HIGH SCHOOL FOR EACH STUDENT:

- CHS is a safe, nurturing learning environment.
- CHS provides access to highly qualified student-centered staff.
- CHS provides curriculum and instruction aimed at allowing students to reach their academic potential.
- At CHS, decisions are based on what is best for all students.
- CHS provides a variety of curricular and extracurricular opportunities.
- At CHS, parents are partners in the educational process.
- CHS is an important part of the Mill Creek community.
- The staff and students at Cascade High School work toward continual improvement.

GRADUATION REQUIREMENTS AND DIPLOMA TYPES

The completion of a Core 40 diploma is an Indiana graduation requirement and the default diploma for Cascade High School. Indiana's Core 40 curriculum provides the academic foundation all students need to succeed in college and the workforce. A Core 40 diploma is required for admission to Indiana public colleges offering bachelor's (4-year) degrees. A Core 40 curriculum is strongly recommended for admission to public colleges offering associate's (2-year) degrees and certificates, or for entry into the workforce. The state does offer a general diploma for students who need to drop to a lower diploma based on grades. Parents, teachers, principals and counselors must meet and agree on and complete a Core 40 Opt out form. This is usually done during a student's junior or senior year.

CORE 40 DIPLOMA GRADUATION REQUIREMENTS

ENGLISH	8 credits	
	● *English 9* or *English 9 Honors*	2 credits
	● *English 10* or *English 10 Honors*	2 credits
	● *English 11* or *AP Language*	2 credits
	● *English 12* or *AP Literature* or *Ivy Tech English 111/206*	2 credits
MATHEMATICS	6 credits *(Earned during grades 9-12)*	
	All students must earn 6 math credits after entering high school. Math credits earned prior to entering grade 9 may meet specific course pre-requisites and may count toward the credit requirements for a diploma, however 6 math credits must be earned during grades 9-12. Additionally, students must be enrolled in a math or quantitative reasoning course during each year of high school.	
	● *Algebra I*	2 credits
	● *Geometry*	2 credits
	● *Algebra II*	2 credits
SCIENCE	6 credits	
	● *Biology I*	2 credits
	● *Chemistry I Honors* or *Physics I Honors* or *Integrated Chemistry-Physics*	2 credits
	● Any additional Core 40 science course	2 credits
SOCIAL STUDIES	6 credits	
	● *World History & Civilization* or *World History Honors*	2 credits
	● *US History* or AP *US History*	2 credits
	● *Government* or *AP Government* or Ivy Tech Politics	1 credit
	● *Economics* or *AP Microeconomics or Ivy Tech Economics*	1 credit
PHYSICAL EDUCATION	2 credits	
	● *Physical Education I* or *Alternate PE Sport*	1 credit
	● *Physical Education II* or *Alternate PE Sport*	1 credit
HEALTH & WELLNESS	1 credit	
	● *Health & Wellness Education*	1 credit
DIRECTED ELECTIVES	5 credits	
	● World Languages ● Fine Arts ● Career & Technical Education	5 credits
ELECTIVES	6 credits	
	● Academic courses within a college & career pathway are recommended	6 credits
40 CREDITS REQUIRED FOR THE CORE 40 DIPLOMA		

Students with unique circumstances examined by the Academic Review Committee that prohibit the completion of a Core 40 curriculum, may be able to graduate with less than a Core 40 diploma. In these instances students are not able to opt-out of a Core 40 diploma until December of their junior year.

To graduate with less than the Core 40 diploma, the following formal opt-out process must be followed.

- The student, the student's parent/guardian, and the student's guidance counselor meet to discuss the student's progress;
- The student's post-secondary plans and 4-year course plan must be reviewed;
- The student's parent/guardian determines whether the student will achieve greater educational benefits by completing the general diploma curriculum or the Core 40 curriculum.
- If the decision is made to opt out of completion of the Core 40 curriculum, the student is required to complete the graduation requirements for the general diploma and determine a career/academic sequence that the student will pursue.

CORE 40 w/ACADEMIC HONORS DIPLOMA GRADUATION REQUIREMENTS

ENGLISH	8 credits	
	● *English 9* or *English 9 Honors* ● *English 10* or *English 10 Honors* ● *English 11* or *AP Language* ● *English 12* or *AP Literature* or *Ivy Tech English 111/206*	2 credits 2 credits 2 credits 2 credits
MATHEMATICS	8 credits *(6 credits earned during grades 9-12)*	
	All students must earn 6 math credits <u>after</u> entering high school. Math credits earned prior to entering grade 9 may meet specific course pre-requisites and may count toward the credit requirements for a diploma, however 6 math credits must be earned during grades 9-12. Additionally, students must be enrolled in a math or quantitative reasoning course during <u>each year</u> of high school. ● *Algebra I* ● *Geometry* ● *Algebra II* ● Any additional Core 40 math course	 2 credits 2 credits 2 credits 2 credits
SCIENCE	6 credits	
	● *Biology I* ● *Chemistry I* or *Physics I* or *Integrated Chemistry-Physics* ● Any additional Core 40 science course	2 credits 2 credits 2 credits
SOCIAL STUDIES	6 credits	
	● *World History & Civilization* or *World History Honors* ● *US History* or AP *US History* ● *Government* or *AP Government* or Ivy Tech Politics ● *Economics* or *AP Microeconomics or Ivy Tech Economics*	2 credits 2 credits 1 credit 1 credit
WORLD LANGUAGES	6-8 credits	
	● Earn 6 credits in one Core 40 world language *OR* ● Earn 4 credits each in two different Core 40 world languages	6-8 credits
FINE ARTS	2 credits	
	● Earn 2 Core 40 fine arts	2 credits
PHYSICAL EDUCATION	2 credits	
	● *Physical Education I* or *Alternative PE Sport* ● *Physical Education II* or *Alternative PE Sport*	1 credit 1 credit
HEALTH & WELLNESS	1 credit	
	● *Health & Wellness Education*	1 credit
ELECTIVES	6-8 credits	
	● Academic courses within a college & career pathway are recommended	6-8 credits
47 CREDITS REQUIRED FOR THE CORE 40 with ACADEMIC HONORS DIPLOMA		

In addition to fulfilling the above requirements, students pursuing the Core 40 w/Academic Honors Diploma must:

- Earn a grade of a "C-" or better in courses that will count toward the diploma;
- Have a grade point average of a 2.7 or higher;
- Complete <u>ONE</u> of the following:
  - A) Earn 4 credits in 2 or more AP courses and take corresponding AP exams;
  - B) Earn 6 verifiable, transcripted college credits via courses designated as dual credit on the *State Approved High School Course Titles Summary*
  - C) Earn a minimum of 3 verifiable, transcripted college credits via courses designated as dual credit on the *State Approved High School Course Titles Summary* ***AND*** earn 2 credits in AP courses and take corresponding AP exams
  - D) Earn a combined score of 1250 or higher on the SAT – at least a 560 on math and 590 on evidence based reading, and writing sections;
  - E) Earn an ACT composite score of 26 or higher and complete the written section (*ACT Plus Writing*).

CORE 40 w/TECHNICAL HONORS DIPLOMA GRADUATION REQUIREMENTS

ENGLISH	8 credits	
	● *English 9* or *English 9 Honors*	2 credits
	● *English 10* or *English 10 Honors*	2 credits
	● *English 11* or *AP Language*	2 credits
	● *English 12* or *AP Literature* or *Ivy Tech English 111/206*	2 credits
MATHEMATICS	6 credits *(Earned during grades 9-12)*	
	All students must earn 6 math credits <u>after</u> entering high school. Math credits earned prior to entering grade 9 may meet specific course pre-requisites and may count toward the credit requirements for a diploma, however 6 math credits must be earned during grades 9-12. Additionally, students must be enrolled in a math or quantitative reasoning course during <u>each year</u> of high school.	
	● *Algebra I*	2 credits
	● *Geometry*	2 credits
	● *Algebra II*	2 credits
SCIENCE	6 credits	
	● *Biology I*	2 credits
	● *Chemistry I* or *Physics I* or *Integrated Chemistry-Physics*	2 credits
	● Any additional Core 40 science course	2 credits
SOCIAL STUDIES	6 credits	
	● *World History & Civilization* or *World History Honors*	2 credits
	● *US History* or AP *US History*	2 credits
	● *Government* or *AP Government* or Ivy Tech Politics	1 credit
	● *Economics* or *AP Microeconomics or Ivy Tech Economics*	1 credit
COLLEGE & CAREER PATHWAY	6 credits	
	● 6 credits in a related sequence from a career-technical program of study	6 credits
PHYSICAL EDUCATION	2 credits	
	● *Physical Education I* or *Alternative PE Sport*	1 credit
	● *Physical Education II* or *Alternative PE Sport*	1 credit
HEALTH & WELLNESS	1 credit	
	● *Health & Wellness Education*	1 credit
ELECTIVES	12 credits	
	● Academic courses within a college & career pathway are recommended	12 credits
47 CREDITS REQUIRED FOR THE CORE 40 with TECHNICAL HONORS DIPLOMA		

In addition to fulfilling the above requirements, students pursuing the Core 40 w/Technical Honors Diploma must:

- Earn a grade of a "C-" or better in courses that will count toward the diploma;
- Have a grade point average of a 2.7 or higher;
- Earn 6 credits in the college and career preparation courses in a state-approved College & Career Pathway and ***<u>ONE</u>*** of the following:
    - State-approved, industry-recognized certification or credential
    - Pathway dual credits from courses designated as dual credit on the *State Approved High School Course Titles Summary* *resulting in 6 transcripted college credits*
- Complete <u>ONE</u> of the following:
    A) Any one of the options (A – F) of the Core 40 w/Academic Honors *(see page 3)*;
    B) Earn the following scores (or higher) on *WorkKeys*: Reading for Information – Level 6, Applied Mathematics – Level 6, and Locating Information – Level 5;
    C) Earn the following minimum score(s) on *Accuplacer*: Writing – 80, Reading – 90, Math – 75;
    D) Earn the following minimum score(s) on *Compass*: Algebra – 66, Writing – 70, Reading – 80.

QUANTITATIVE REASONING COURSES

All students earning a Core 40, Core 40 w/Academic Honors (AHD), and/or Core 40 w/Technical Honors (THD) diploma are required to take a mathematics course or a quantitative reasoning course each year that they are enrolled in high school. Students receiving a General Diploma must earn two credits in a mathematics course or a quantitative reasoning course during their junior or senior year. A quantitative reasoning 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 chart below provides a list of courses at CHS that have been determined to meet the criteria for quantitative reasoning courses.

AREA 31 CAREER CENTER	
● Advanced Manufacturing II ● Aerospace Engineering ● Construction Technology – HVAC II ● Electronics & Computer Technology II	● Horticulture & Landscape Management ● Precision Machining I ● Precision Machining II
ENGINEERING & TECHNOLOGY EDUCATION	
● PLTW: Civil Engineering & Architecture ● PLTW: Principles of Engineering	
MATHEMATICS	
● Algebra I ● Geometry ● Algebra II ● Pre-Calculus	● AP Calculus BC ● AP Calculus AB ● Probability & Statistics ● Finite Math ● Ivy Tech Math 136/137
SCIENCE	
● Chemistry I Honors ● AP Chemistry ● Integrated Chemistry-Physics	● Physics I
SOCIAL STUDIES	
● Economics ● AP Microeconomics	

COURSES TAKEN IN MIDDLE SCHOOL FOR HIGH SCHOOL CREDIT

High school credit will be awarded to middle school students who complete high school courses while in middle school. The courses will appear on the student's high school transcript, and the grades will factor into the cumulative GPA. Students may also repeat these courses for a higher grade or decline the credit before February 1st of their freshman year. Refer to "Repeating a Course" within the *Policies & Procedures* portion of this handbook.

CLASS RANK – VALEDICTORIAN, SALUTATORIAN & "SENIOR SCHOLARS"

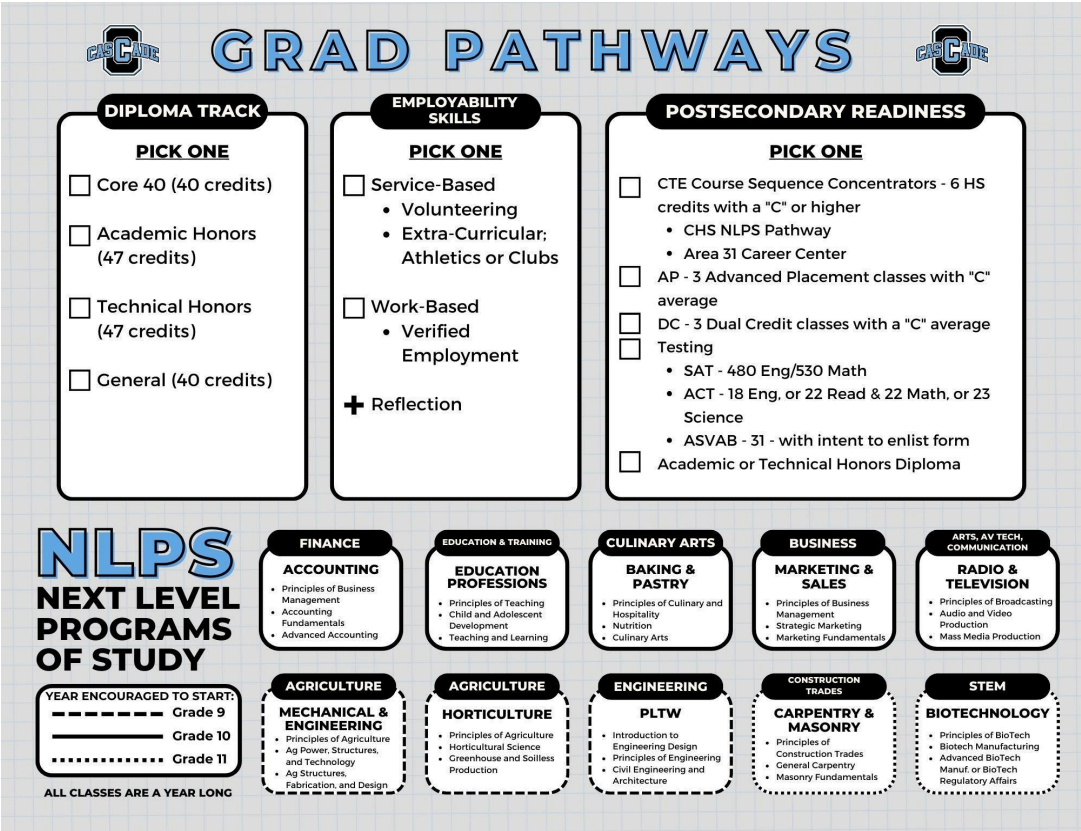
The weighted cumulative GPA is used to determine class rank at the completion of each semester. The senior valedictorian (class rank of *1*) and senior salutatorian (class rank of *2*) are determined at the end of 7 semesters. This will also be the case for the "Senior Scholars". Any summer classes taken will be implemented into the student's GPA, credits and transcript when the class is offered and completed at Cascade.

SCHOOL BASED SAT & ILEARN SCIENCE

All students will participate in the SAT during the Spring in Grade 11 at Cascade HS. The SAT will be taken at school. At this time, there is no mandatory cut score needed but their score can be used as part of the Graduation Pathways. The student scores will be used as part of the IDOE school grade. All students will participate in the ILEARN Science test during their enrollment in Biology.

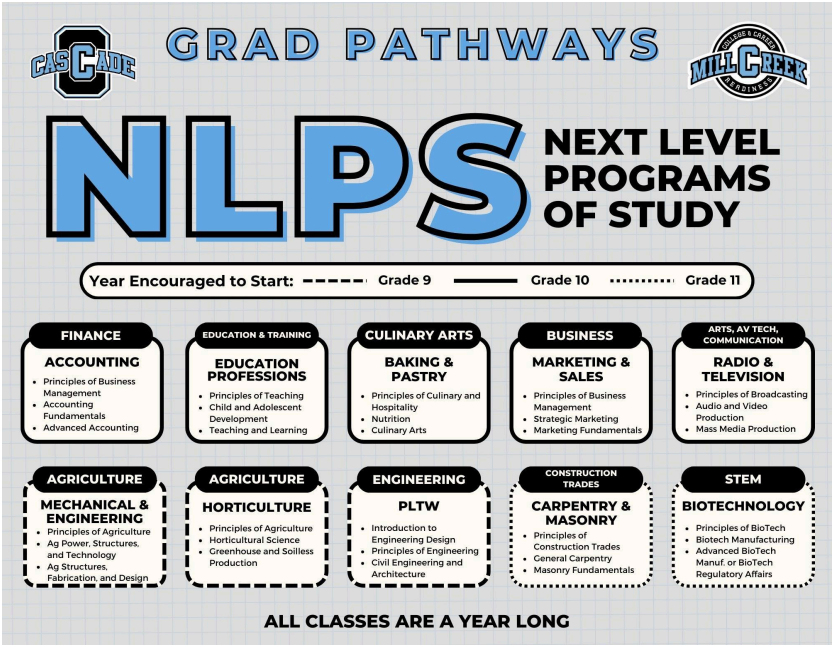
GRADUATION PATHWAYS

All students must individualize their graduation requirements to align to their postsecondary goal. No longer must all students fit into the same academic mold, but rather, they can choose the options that best meet their postsecondary needs and aspirations. Students can create pathways that serve their educational interests and prepare them for postsecondary educational and career opportunities. The following explains Cascade High School's graduation pathways.



Next Level Programs of Study (NLPS)

Next Level Programs of Study (NLPS), will improve the consistency, quality, and intentionality of CTE instruction across Indiana. A simplified explanation of the course structure is 6 credits have been divided into three 2 credit full year courses: Principles, Concentrator A, and Concentrator B. These CTE programs are used to fulfill the Graduation Pathways Postsecondary Readiness category. All classes in one program of study must be completed for the Graduation Pathways.



State law provides that a student who successfully meets the Diploma and Employability Skills requirements may still graduate without completing the PostSecondary Readiness portion of Graduation Pathways.

- IC 20-32-4-4.1 requires a student to attempt to achieve at least three (3) separate postsecondary readiness competencies in order to qualify for a waiver from the postsecondary readiness competency graduation requirement under pathways. Therefore, a student who does not attempt at least three (3) competencies will be ineligible to graduate with a waiver provided for under IC 20-32-4-4.1.
- Maintain at least a "C" average in courses comprising credits required for the student to graduate.
- Maintain a school attendance rate of at least ninety-five percent (95%) with excused absences not counting against the student's attendance.
- Satisfy all other state and local graduation requirements beyond the postsecondary readiness competency requirements established by the state board under section 1.5(c) of this chapter.
- Demonstrate postsecondary planning, including: college acceptance, acceptance in an occupational training program, workforce entry or military enlistment

**Subject to change due to new guidelines by the Indiana Department of Education.

GRADING SCALE

Mill Creek Community Schools has established the recommended grading scale below. Grading scales are provided to guide teachers when utilizing professional judgment in evaluating students. The semester grade is the product of a semester's worth of coursework. Questions regarding course grading procedures and standards should be referred to the course instructor.

A	93-100%	B+	87-89%	C+	77-79%	D+	67-69%
A-	90-92%	B	82-86%	C	73-76%	D	63-66%
		B-	80-82%	C-	70-72%	D-	62%-60%

GRADE POINT AVERAGE (GPA)

Grade Point Averages (GPAs) are calculated at the end of each semester and are based on the semester grade. A student's cumulative GPA is the average of all semester grades completed by the student throughout high school. To calculate the GPA, each semester grade is given a point value. The total points are then added together and divided by the number of credits attempted (a grade of "F" or "WF" is considered a credit attempted). If the student has taken a weighted class, point 1 (.1) times the number of weighted classes divided by the number of semesters in high school will be added to the unweighted GPA. Each grade receives the following points:

A	4.000	B+	3.333	C+	2.333	D+	1.333	F	0.000
A-	3.667	B	3.000	C	2.000	D	1.000	WF	0.000
		B-	2.667	C-	1.667	D-	.667	NC	No Credit

GRADE-WEIGHTED COURSES

ENGLISH	**SCIENCE**	**MATH**	**SOCIAL STUDIES**
English 9 Honors	Chemistry I Honors	Geometry Honors	World History Honors
English 10 Honors	AP Chemistry	Algebra II Honors	AP US History
AP Language	Physics I	AP Calculus BC	AP US Government & Politics
AP Literature	AP Biology	AP Calculus AB	AP Microeconomics
	AP Environmental Science		
	Biology I Honors		

Cascade High School has adopted a ***cumulative GPA*** weighting system. In this system of weighting courses, points are added to the cumulative GPA. The weighted cumulative GPA is then used to determine class rank. Students must receive B- or higher in the weighted class to receive the weighted grade. The add-on formula used to calculate the points added to the cumulative GPA takes into account the number of grade-weighted credits earned/semesters a student has completed in high school. The points added will change each semester as more weighted credits are earned and more semesters toward graduation are completed.

$$\frac{\textit{0.1 X number of grade-weighted credits earned}}{\textit{Semesters Completed}} = \textit{TOTAL POINTS ADDED TO CUMULATIVE GPA}$$

Please Note: Students who transfer to CHS with honors courses on their transcript will have their transcript reviewed by the guidance office. Upon verification that the courses target higher ability students and are considered more rigorous and would prepare a student for the next level, such as Advanced Placement (AP), the course will receive weighted value, provided it is offered and considered a weighted course at Cascade High School. AP courses will be transferred and counted as weighted, provided the course is offered at Cascade High School.

ADVANCED PLACEMENT (AP) COURSES

ENGLISH AP Language AP Literature **MATH** AP Calculus AB AP Calculus BC	**SCIENCE** AP Chemistry AP Biology AP Environmental Science **SOCIAL STUDIES** AP Government & Politics AP Microeconomics AP US History

The Advanced Placement (AP) Program is sponsored by the College Board, a non-profit membership organization. The AP Program gives students an opportunity to experience college-level courses and exams while they are still in high school. The AP tests are scored on a 1 – 5 scale. Through this program, students may earn college credit, accelerated placement, or both for college. Because AP courses are equivalent to a college level course, students who take AP courses should expect to spend a considerable amount of time outside the classroom devoted to this rigorous coursework. As a general rule, expect to spend one hour of work per day outside the class per period. Book rental fees are usually higher for AP courses because students must purchase their own college textbook.

Law, PL 91, requires all Indiana public colleges and universities (including all 2-year and 4-year institutions and accompanying satellites) to award college credits for Indiana secondary school students that earn a score of 3 or higher on College Board's AP exam(s). Indiana public colleges and universities may require a score higher than 3 to award credits for a course that is a requirement for a student's major; if a university chooses to do so, it must still award a student elective credits that count toward his/her overall degree requirements to graduate from college. Students should visit www.transferIN.net to see how AP exam scores can transfer into college credits at Indiana colleges and universities.

Students signed up for AP courses are expected to take the AP exams in May. There is only one date for each AP exam which is set by College Board. Presently, the Indiana Department of Education pays for science, English and math exams for juniors and seniors only, and therefore, there is no cost to CHS students in these grade levels for these exams. All other tests require a fee; approximately $92 per test. For a complete course description and other information regarding AP courses visit:
http://apcentral.collegeboard.com/apc/public/courses/descriptions/index.html.

DUAL CREDIT (DC) COURSES

Ivy Tech Dual Credit (DC) courses allow students to earn credit toward a high school diploma as well as a college degree. Though these courses and textbooks may seem expensive for a high school class, they offer a significant savings to many families when compared to tuition at post-secondary institutions. CHS offers these classes to students for free. Families

are responsible for books only. In addition to their financial advantages, dual credit courses prepare students for the rigor of college work, and help many students qualify for an Academic Honors Diploma and Graduation Pathways.

Currently, CHS has partnered with Ivy Tech Community College. Most of these classes are taught by a college professor and not a CHS teacher. Currently, Ivy Tech classes are offered one day a week for three college credits and one high school credit. Furthermore, Cascade has a few classes that are taught by Cascade teachers that receive Ivy Tech credit. There are no fees for these Cascade taught classes.
There are a few details to keep in mind when considering enrolling in dual credit courses:

- Some courses have certain criteria that must be met, such as minimum test scores on the PSAT, SAT or ACT. Also, students may use their GPA of 2.7 or above to qualify.
- Students must receive a "C" or higher to receive the dual credit from Ivy Tech.
- Some courses may transfer as college hours, but do not transfer as the identical course at another university. This is known as "undistributed credit." But, in most cases, a class will transfer into the accepting university. Students should visit www.transferIN.net to see how available dual credit and AP courses can transfer to Indiana colleges and universities.

IVY TECH CLASS OFFERINGS at CASCADE

ENGLISH English 111 Composition English 206 Intro to Literature Communications 101 **MATH** College Algebra 136 College Trigonometry 137 **AGRICULTURE** AG Principles AG Power and Structure AG Structure Fabrication & Design Horticulture Science Greenhouse and Soils	**SCIENCE** Anatomy **SOCIAL SCIENCES** Intro to Psychology 101 American Government and Politics 101 Economic Fundamentals 101 **ENGINEERING** Intro to Engineering Design Civil Engineering and Architecture Principles of Engineering

Students who take Advanced Placement Biology may qualify for IU credit through the ACP program. Advance College Project (ACP) is a dual-enrollment partnership between Indiana University and select high schools throughout Indiana and surrounding states. A cost of only $25 per credit or free for students who qualify financially. The total cost would be $75. A student would not have to score a 3 or higher on the AP test to get college credit through the ACP program.

COLLEGE & CAREER READINESS

Due to the wide variations in college admission requirements, students are urged to check with the admissions office of prospective colleges and visit prospective colleges' websites when planning their high school programs. College catalogs are available online at most college websites. Most colleges require at least 28 of the credits earned for high school graduation to be devoted to academic courses. Be aware that college entrance requirements do change. The 11th and 12th grade years are when students should take the SAT and ACT college entrance exams. Additionally, juniors have the opportunity to earn scholarship monies through the National Merit program by taking the PSAT Examination. For more information about the SAT and ACT programs, please visit http://www.collegeboard.com/ and http://www.act.org/aap/index.html.

To prepare for college, students should do the following:

- Take recommended college preparatory courses. The preferred curriculum for the best preparation for college is the Academic Honors Diploma. Indiana Core 40 is the minimum standard to be followed;

- Maintain the best possible grades in courses to increase your GPA;
- Take the PSAT exam (practice SAT) in the fall of your sophomore and junior year;
- Juniors are recommended to then take the SAT and/or ACT in the spring, and once again in the fall of the senior year. Have SAT and ACT scores sent to Cascade High School (CEEB school code is 150555) as well as to prospective colleges.
- All juniors will take the School Day SAT test. These scores may be used for college admissions, too.
- Apply to colleges early during the fall of the senior year. Some colleges and highly competitive programs may require an early application. It is recommended that all students submit college applications by fall break.
- Complete the *FAFSA* (*Free Application for Federal Student Aid*) after October 1st of senior year and submit by April 15th, to be considered for state and federal financial aid. Visit www.fafsa.ed.gov for more information on the *FAFSA*.

COLLEGE and CAREER PATHWAYS

The state-approved Career Clusters and College & Career Pathways, along with the sequence of courses recommended for each Pathway and the Course Frameworks, can be accessed by clicking the Career Cluster links below. College & Career Pathways provide a way for schools to organize instruction and student experiences around 13 broad categories that encompass virtually all occupations from entry through professional levels. Use this site to build 4-Year Course Plans & Course Frameworks. Start with a Career Cluster by selecting one of the 13 Career Clusters below. Then study the Career Pathway Models for the chosen area, and select a more specific Career Pathway from that Cluster. Visit www.doe.in.gov/pathways to learn more about the Indiana College & Career Pathways.

Agriculture	**Architecture & Construction**
Arts, AV Technology & Communication	**Business & Marketing**
Education & Training	**Health Science**
Hospitality & Human Services	**Information Technology**
Manufacturing	**Public Safety**
STEM	**Transportation**
Career & Technical Education Home	

Visit https://netsolutions.dwd.in.gov/hh50/jobList.aspx for a listing of the 50 fastest growing, high-wage jobs of tomorrow. The Hoosier Hot 50 Jobs are ranked on wages and demand in 2020 for the state of Indiana. Even though Hoosier Hot 50 Jobs focuses on the jobs of tomorrow, there are several jobs that are hot now.

XELLO

Cascade High School utilizes Xello to assist students and parents with the management of high school course planning, college and career planning process. We encourage students and parents to visit Xello often for important updates. All students will create a profile and have the ability to keep information on the site. There are valuable college and career websites, interest surveys, volunteer data tracking and resume building activities.

AREA 31 CAREER/TECHNICAL PROGRAMS

Career/Technical education is available through Ben Davis Area 31 Career Center for interested junior and senior students. Students must apply to these programs and be accepted. Area 31 takes into consideration GPA, attendance and grades for course selection. The majority of the programs at Area 31 Career Center are two-year programs. A

student enrolling in these programs is strongly encouraged to complete the entire two years of the program. Students may earn up to three credits each semester per course based on the career center's schedule. Many of the programs at Area 31 Career Center also offer dual credit with colleges such as Ivy Tech and Vincennes University. Students enrolled in these programs spend half of their school day at the Area 31 Career Center (or another designated site) and half of their day at Cascade High School. Course descriptions of the various career programs offered at the Area 31 Career Center can be found at the end of this handbook.

POLICIES AND PROCEDURES

EDUCATIONAL RECORDS – TRANSCRIPTS AND REPORT CARDS

In accordance with state law, Cascade High School has transitioned to electronic submission of transcripts. Students who need transcripts sent to colleges and universities make their requests through Parchment. The counselor will then confirm the request and forward the transcript electronically. This transcript will serve as an official transcript when this process is followed.

Parents/guardians and students will use *PowerSchool* (http://powerschool.cascade.k12.in.us) to complete registration and check grades regularly. If you need your *PowerSchool* username or password, please contact the office.

CHANGES IN PRE-ENROLLED COURSE SELECTIONS

The course offerings at Cascade High School are based upon student requests during pre-enrollment. Therefore, it is necessary for students to determine their course selections with a commitment to complete those courses. Scheduling request forms will be given to students in February. In the event that a student would think it necessary to make a change in a course selection, the student must do so by May 1st. School counselors may need to use alternate classes if (1) an original course choice is not offered due to insufficient enrollment or (2) the student has selected two classes which conflict on the student's schedule. Once schedules are built for the entire school, counselors may change a student's schedule to obtain balanced class sizes. School counselors will make adjustments to the students' course selections based on courses failed in the second semester and/or courses taken during the summer.

DROPPING AND/OR ADDING COURSES

Due to the highly complicated process and the numerous factors involved in scheduling, no student schedules will be changed after May 1 of the previous school year except for the following reasons: Completion of summer school, special education placement, a significant change in enroll/enroll/enlist plan, medical documented reasons, teacher initiated change due to improper placement, request to upgrade to a higher course level or courses for diploma type change. If a student wishes to request a schedule change that involves adding or dropping a course, he/she must sign-up for the request. Removal from a course after the first week of school may result in a "WF" for the course and will appear on the student's transcript and factor into their cumulative GPA as an "F".

REPEATING A COURSE

Students *must* repeat failed courses that are required for graduation. Students *may* repeat courses via correspondence/online programs such as Indiana Online, Plato, or re enrolling in the class at school.

The following rules will apply when repeating a course:

1) When repeating an already passed course, the 2nd grade will appear on the transcript and factor into the cumulative GPA. The first grade will be changed to "NC" (No Credit) and will not be factored into the cumulative GPA and taken off the transcript.
2) When repeating a failed course, the passing grade will appear on the transcript and will factor into the cumulative GPA. The cumulative GPA is based on the total number of credits attempted, not earned.
3) If students prefer to repeat a course in a teacher-led, classroom environment during the school year, they must do so during the semester/school year immediately following their initial enrollment in the course. For example, a student who wishes to repeat *English 10 Honors* in the classroom must do so during their junior/11th grade year. Students will be allowed to repeat a course in a teacher-led classroom as room permits.
4) When repeating a course, a student may go from an honors level course to a regular level (provided academic standards are the same for the two courses), but will forfeit the grade weight. For example, a student who earns

a “D+” in *English 10 Honors* may opt to take *English 10* for a higher grade but *English Honors 10* will stay on the transcript and count into GPA.

INCOMPLETE GRADES

An Incomplete (I) may be given under certain situations in lieu of a grade when a student does not complete the requirements of the course. The student must make arrangements with the teacher to fulfill those requirements. Teachers must submit final grades for each student upon completion of the course by filling out a Grade Change Form or indicate to the principal what arrangements have been made to remove the incomplete. Accommodations for individual situations shall be made by the building principal as the need arises. Any work not made up will be recorded as failing. Exceptions to this policy must be approved by the administration.

EARLY GRADUATION

Early graduation is sometimes possible; however eight (8) semesters are highly recommended. Students applying for early graduation must carry a full course-load. Early graduates may not participate in most student activities after leaving CHS such as athletics, musical programs and drama activities. However, students may attend prom, participate in *Night of Awards* and in any other honors recognition programs. These students are also eligible to participate in commencement ceremonies in May and will not receive their actual diplomas until commencement in May.

If a student wishes to graduate after seven (7) semesters, he/she is to comply with the following policies:

1) All graduation requirements must be met by the end of the semester - Graduation Pathways;
2) Should have completed the 2nd semester of *English 12* during summer school (Indiana Online) prior to the start of senior year;
3) Completed and signed (by both student and parent/guardian) ***Request for Early Graduation Form*** must be submitted to the guidance office for approval.

A junior requesting to graduate **at the end of the 6th semester, must meet all graduation requirements by the end of six (6) semesters and provide reasons and written consent signed by his/her parents/guardians (complete the Early Graduation Form)**. Students requesting to graduate after 6 semesters cannot be the valedictorian, salutatorian or members of the “Senior Scholars” of their graduating class. A junior who is approved to graduate at the end of the sixth semester will be permitted to participate in the commencement ceremony with the current senior class. Juniors who are approved to graduate after 6 semesters should apply for the Mitch Daniels Early Graduation Scholarship, if they are planning to attend an Indiana college. For more information on this scholarship visit www.in.gov/ssaci/.

TRANSFER STUDENTS – ENROLLMENT

Students transferring to Cascade High School must make an appointment with the guidance office. Course selections, enrollment forms, and health forms will be reviewed with the school counselor. Students removed for disciplinary reasons from another school will be denied admission to Cascade High School during the semester in which the disciplinary action occurred. The principal will make the final decision in this situation.

TRANSFER STUDENTS – CREDITS

- If the transferring student attended a school in Indiana or another state, approved/accredited by that state’s department of education, coursework will be accepted at face value if those courses are approved curriculum offerings. For credit or coursework to be accepted for courses taken in such schools, either a copy of the transcript or other assurance of compliance with minimum requirements established by the State must be provided.
- A course will be transferred and placed on the transferring student’s transcript only if the school system where the course was taken awarded high school credit for the course. This would be especially applicable to high school courses taken while in middle school.
- Recognition of credits or coursework shall be granted when the proper assurance and the student's transcript has been received. The Corporation reserves the right to assess such transfer students in order to determine proper placement and to be assured the student can demonstrate the learning which is prerequisite to a placement.

- Grade-weighted courses are transferred as such if the courses are offered at CHS for a grade-weight; If the honors level/grade-weighted course is not offered for a grade-weight at CHS, grade-weight for the transferred course will not be awarded.
- When a student transfers into the school corporation from a non-accredited high school, for example, “Homeschool”, his/her previous courses will be evaluated by the guidance office. Examinations may be administered for the subject(s) in question if the panel deems it appropriate.

ONLINE CORRESPONDENCE COURSES

Students will be allowed to take courses from Indiana Online. During the summer, there is a $50 fee if the class is not passed. During the school year, there is a $300 fee assessed to each class taken. There are a variety of courses that may be taken. A school counselor will need to verify the class that will be taken. Visit the IO website, https://indianaonline.org/ for more information.

ATHLETIC ELIGIBILITY

Student-athletes must be enrolled at Cascade and pass five full credits (IHSAA standard) with no more than 1 F each 9 week grading period in order to continue to participate as a team member. Semester-ending grades take precedence. Coaches and sponsors can check progress of students by talking with teachers, issuing periodic grade checks and PowerSchool at the end of grading periods. It is the policy of the athletic department to work closely with the academic progress of each participant. Students with failing grades will attend practices or study at the coaches' discretion during periods of academic difficulty. The ineligibility will be in effect until the next 9 week report card. At that time, eligibility will be determined.

NAIA & NCAA DIVISION I/II ELIGIBILITY

The initial-eligibility standards for NCAA Division I college-bound student-athletes are changing. College-bound student athletes first entering a Division I college or university on or after August 1, 2016, will need to meet new academic rules in order to receive athletics aid (scholarship), practice or compete during their first year.

Division I requirements for a full qualifier (may receive athletics aid, practice, and compete during 1st year of enrollment):

1) Complete 16 core courses* – 4 years of English; 3 years of Mathematics (Algebra I or higher); 2 years of Natural/Physical Science (1 year of lab); 1 year of additional English, Mathematics, or Natural/Physical Science; 2 years of Social Science; 4 years of additional courses (from any aforementioned area, foreign language, or comparative religion/philosophy).
2) Ten of the 16 core courses must be completed before the seventh semester (senior year) of high school.
    a. Seven of the 10 core courses must be English, math or science.
3) Have a minimum core-course GPA of 2.3.
    a. Grades earned in the 10 required courses required before the senior year are “locked in” for purposes of GPA calculation.
        i. A repeat of one of the “locked in” courses will not be used to improve the GPA if taken after the seventh semester begins.
4) Meet the competition sliding scale requirement of GPA and ACT/SAT score (this is a new scale with increased GPA/test score requirements). Visit the NCAA Eligibility Center website at www.eligibilitycenter.org for specific GPA/testing specifics.
5) Graduate from high school.

Division II requirements for a full qualifier (may receive athletics aid, practice, and compete during 1st year of enrollment):

1) Complete 16 core courses* – 3 years of English; 2 years of Mathematics (Algebra I or higher); 2 years of Natural/Physical Science (1 year of lab); 3 years of additional English, Mathematics, or Natural/Physical Science; 2 years of Social Science; 4 years of additional courses (from any aforementioned area, foreign language, or comparative religion/philosophy).

2) Have a minimum core-course GPA of 2.0.
3) Have a minimum SAT score of 820 (Critical Reading/Math only) or an ACT sum of 68.

NCAA Division III students must gain admissions to the college, but do not have to register with the Eligibility Center.
*A list of CHS approved core-courses may be found on the NCAA Eligibility Center website at www.eligibility.org.

NAIA students must register at www.playnaia.org prior to college enrollment, and must have their SAT/ACT scores sent to the NAIA Eligibility Center using the following code, 9876. In order to be eligible with NAIA, a student must complete 2 out of the following 3:

- 2.0 GPA
- Graduate in top 50% of class
- Have a minimum 970 on SAT (math & verbal) or minimum 18 composite on the ACT

Please Note: All SAT and ACT scores must be reported directly to the NCAA Eligibility Center by the testing agency. Test scores that appear on transcripts will no longer be used. When registering for the SAT or ACT, use the code of 9999 to make sure the score is reported to the NCAA Eligibility Center. Division I and II student athletes must be certified by the NCAA Eligibility Center. Students should register at www.eligibilitycenter.org. Students should consult with their coaches and the guidance office at the end of the junior year or the fall of the senior year for more information.

GRADUATION WITH DISTINCTION

In a continuing effort to promote student achievement and seek innovative ways to motivate students to do their best, Cascade High School is offering students the opportunity to graduate with distinction from all disciplines within our high school. Each area has created its own requirements to earn this honor. Those who earn this distinction will receive special recognition during graduation.

Graduation with Distinction: Business, Marketing, and Information Technology

Students must earn 6 credits in this area. Students must carry a **3.7 GPA** in all related fields of study.

Graduation with Distinction: English/Language Arts

Students must earn 8 credits, a minimum of 4 semesters of weighted course work (Pre AP or AP) and have received a minimum **GPA of 3.7** to graduate with distinction.

Graduation with Distinction: Mass Media

Students must earn 4 credits and have received a minimum **GPA of 3.7** to graduate with distinction.

Graduation with Distinction: Family & Consumer Sciences

Students must earn 4 credits in the areas of family and consumer science curriculum. Students must carry a **3.7 GPA** in all related curricular areas.

Graduation with Distinction: Fine Arts-Performing Arts

Students must complete at least 7 credits from the combined areas of study (Band, choir). Students must maintain at least a **3.7 GPA** in all areas of study.

Graduation with Distinction: Fine Arts-Visual Arts

Students must earn at least 6 credits in the art curriculum. Students must carry a **3.7 GPA** in all art courses taken in high school.

Graduation with Distinction: Health & Physical Education

Students must complete at least 9 credits within the physical education curriculum. Study must include general physical education and health education curriculum. Students must maintain at least a **3.7 GPA** in curricular areas of physical education.

Graduation with Distinction: Mathematics

Students must complete 8 credits in the math area and be enrolled all 8 semesters of high school. Students must maintain at least a **3.7 GPA** in the math area.

Graduation with Distinction: Project Lead the Way

Students must complete at least 6 credits from IED, CEA, and POE. Students must maintain at least a **3.7 GPA** in all areas of study.

Graduation with Distinction: Agriculture

Students must complete at least 6 credits. Students must maintain at least a **3.7 GPA** in all areas of study.

Graduation with Distinction: Science

Students must complete 8 credits within the science curricular areas, NOT including Environmental Science. The course of study must include Chemistry and/or Physics. Students must maintain at least a **3.7 GPA** or AP Chemistry and AP Biology included a **3.5 GPA**.

Graduation with Distinction: Social Sciences

Students must complete 7 credits of social science courses. Students must maintain at least a **3.7 GPA** in the social science area.

Graduation with Distinction: World Languages

Students must earn 8 credits with a **GPA of 3.7** in the same world language or those students who attempt multiple world languages.

Graduation with Distinction: Vocational Education (Area 31)

Vocational students must complete a two year program at Area 31 with a **3.7 GPA**. Typically, this will total twelve credits

CASCADE HIGH SCHOOL COURSES OF STUDY DEPARTMENTS

BUSINESS EDUCATION

SENIOR LEVEL COURSES	CREDITS	PREREQUISITES
Career Exploration Internship	1 – 2	None
Introduction to Computer Science	1	None
Marketing Fundamentals	2	*Principles of Business Management*
Principles of Business Management	2	None
Personal Financial Responsibility	1	None
Strategic Marketing	2	*Principles of Business Management*
Accounting Fundamentals	2	*Principles of Business Management*
Advanced Accounting	2	*Principles of Business Management*
JUNIOR LEVEL COURSES	**CREDITS**	**PREREQUISITES**
Introduction to Computer Science	1	None
Marketing Fundamentals	2	*Principles of Business Management*
Principles of Business Management	2	None
Personal Financial Responsibility	1	None
Strategic Marketing	2	*Principles of Business Management*
Accounting Fundamentals	2	*Principles of Business Management*
Advanced Accounting	2	*Principles of Business Management*
SOPHOMORE LEVEL COURSES	**CREDITS**	**PREREQUISITES**
Introduction to Computer Science	1	None
Marketing Fundamentals	2	*Principles of Business Management*
Personal Finance and Banking	1	None
Principles of Business Management	2	None
Strategic Marketing	2	*Principles of Business Management*
Personal Financial Responsibility	1	None
Accounting Fundamentals	2	*Principles of Business Management*
Advanced Accounting	2	*Principles of Business Management*
FRESHMAN LEVEL COURSES	**CREDITS**	**PREREQUISITES**
Principles of Business Management	2	None
Introduction to Computer Science	1	None

BUSINESS - MARKETING AND SALES		
PRINCIPLES CLASS	CONCENTRATOR "A" CLASS	CONCENTRATOR "B" CLASS
Principles of Business Management	Strategic Marketing	Marketing Fundamentals

BUSINESS - FINANCE		
PRINCIPLES CLASS	CONCENTRATOR "A" CLASS	CONCENTRATOR "B" CLASS
Principles of Business Management	Accounting Fundamentals	Advanced Accounting

PRINCIPLES OF BUSINESS MANAGEMENT

Course Number: 4562 Grades 10 – 12
TWO SEMESTERS 2 Credits
Core 40, AHD & THD elective & directed elective course

- Examines business ownership, organization principles and problems, management, control facilities, administration, financial management, and development practices of business enterprises.
- Emphasize the identification and practice of the appropriate use of technology to communicate and solve business problems and aid in decision making. Attention will be given to developing business communication, problem-solving, and decision-making skills using spreadsheets, word processing, data management, and presentation software.

ACCOUNTING FUNDAMENTALS

Prerequisite: Principles of Business Management ("C" or higher)

Course Number: 4524 Grades 10– 12
TWO SEMESTERS 2 Credits
Core 40, AHD & THD elective & directed elective course

- introduces the language of business using Generally Accepted Accounting Principles (GAAP) and procedures for proprietorships.
- Emphasis is placed on accounting principles as they relate to both manual and automated financial systems. This course involves understanding, analyzing, and recording business transactions and preparing, analyzing, and interpreting financial reports as a basis for decision-making.
- Provides a basic introduction to the scope and importance of marketing in the global economy.

Note: Offered school year 24-25.

ADVANCED ACCOUNTING

Prerequisite: Principles of Business Management ("C" or higher)

Course Number: 4522 Grades 10– 12
TWO SEMESTERS 2 Credits
Core 40, AHD & THD elective & directed elective course

- Introduces procedures for various forms of business ownership using double-entry accounting covered in Accounting Fundamentals, including an emphasis on payroll accounting.
- Topics covered include calculating gross pay, withholdings, net pay, direct deposits, journalizing payroll transactions and preparing individual earnings records and payroll registers.
- Emphasis is placed on applying Generally Accepted Accounting Principles through hands-on practice with popular commercial accounting software packages that are currently used in business.

Note: Offered school year 25-26.

STRATEGIC MARKETING

Prerequisite: Principles of Business Management ("C" or higher)

Course Number: 5918 Grades 10– 12
TWO SEMESTERS 2 Credits
Core 40, AHD & THD elective & directed elective course

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

Note: Offered school year 23-24.

PERSONAL FINANCIAL RESPONSIBILITY

Course Number: 4540 Grades 9 – 12
ONE SEMESTER 1 Credit
Core 40, AHD & THD elective & directed elective course

- Learn to identify and manage personal financial resources to meet the financial needs and wants of individuals and families; Develop skills in financial responsibility and decision making; identify sources of income, savings and investing; Understand banking, budgeting, record-keeping, insurance and credit card debt.
- Use a project-based approach through authentic settings to support knowledge attainment.

Note: Starting with the Class of 2028, PFR is required for graduation..

INTRODUCTION TO COMPUTER SCIENCE

Course Number: 4803 Grades 9 – 12
ONE SEMESTER 1 Credit
Core 40, AHD & THD elective & directed elective course

- Allows students to explore the world of computer science. Students will gain a broad understanding of the areas composing computer science. Additionally, there is a focus on the areas of computer programming, gaming/mobile development, and artificial intelligence/robotics.

CAREER EXPLORATION INTERNSHIP

Course Numbers: 0530A/B Grade 12
FULL YEAR 2-4. Credits
Core 40, AHD & THD elective & directed elective course

- Explore careers that require additional degrees or certifications following high school; Develop skills through instruction and learning career competencies at an internship site
- Learn, through training, requirements and expectations in future career experiences

Note: Students must provide their own transportation.

ENGINEERING AND TECHNOLOGY EDUCATION

PLTW: Intro Engineering Design/DESN102 IVY	2	None
PLTW: Principles of Engineering/DESN104 IVY	2	*PLTW: Intro to Engineering Design* (“C” or higher)
PLTW: Civil Engineer & Architect/DESN105 IVY	2	*PLTW: Principles of Engineering* (“C” or higher)
Computers and Design	2	*PLTW: Civil Engineer & Architect* (“C” or higher)
Advanced Electrical	2	*Principles of Construction Trades and “C” or higher*
Electrical Fundamentals	2	*Principles of Construction Trades and “C” or higher*
Principles of Construction Trades	2	*None*
JUNIOR LEVEL COURSES	**CREDITS**	**PREREQUISITES**
PLTW: Intro Engineering Design/DESN102 IVY	2	None
PLTW: Principles of Engineering/DESN104 IVY	2	*PLTW: Intro to Engineering Design* (“C” or higher)
PLTW: Civil Engineer & Architect/DESN105 IVY	2	*PLTW: Principles of Engineering* (“C” or higher)
Computers and Design	2	*PLTW: Principles of Engineering* (“C” or higher)
Advanced Electrical	2	*Principles of Construction Trades and “C” or higher*
Electrical Fundamentals	2	*Principles of Construction Trades and “C” or higher*
Principles of Construction Trades	2	*None*
SOPHOMORE LEVEL COURSES	**CREDITS**	**PREREQUISITES**
PLTW: Intro Engineering Design/DESN102 IVY	2	*Algebra I*
PLTW: Principles of Engineering/DESN104 IVY	2	*PLTW: Intro to Engineering Design* (“C” or higher)
Advanced Electrical	2	*Principles of Construction Trades and “C” or higher*
Electrical Fundamentals	2	*Principles of Construction Trades and “C” or higher*
Principles of Construction Trades	2	*None*
FRESHMAN LEVEL COURSES	**CREDITS**	**PREREQUISITES**
PLTW: Intro Engineering Design/DESN102 IVY	2	*Algebra I*
Principles of Construction Trades	2	*None*

ENGINEERING - PLTW		
PRINCIPLES CLASS	CONCENTRATOR "A" CLASS	CONCENTRATOR "B" CLASS
Introduction to Engineering Design	Principles of Engineering	Civil Engineering and Architecture

Project Lead the Way is a pre-engineering curriculum; the name, often shortened to PLTW, refers to a series of courses offered nationwide to promote careers in engineering and connect math and science courses to technology in a more high-tech project-oriented environment. This series of courses is designed around the use of a computer in constructing products, solving problems and developing skills in engineering communication. Project Lead the Way courses are completed for dual credit, meaning that students earn high school and college credit simultaneously through agreements Cascade High School has with Ivy Tech Community College.

INTRO ENGINEER DESIGN/DESN102 & 113 IVY TECH (DC)

Course Numbers: 4802A/B Grades 9 – 12
FULL YEAR 2 Credits
Core 40, AHD & THD elective & directed elective course

- PLTW - Review design process skills; Develop technical sketching and drawing skills; Acquire computer modeling skills; Interpret geometry of design models; Discover engineering and reverse engineering tactics and skills
- Master advance computer modeling software (Inventor); Design and create mock-ups using a 3D Printer
- Utilize creative problem solving skills individually and in groups to complete design challenges

Note: Students will earn 6 Ivy Tech college credits upon successful completion of this course.

PRINCIPLES OF ENGINEERING/DESN104 IVY (DC)

Prerequisite: Intro to Engineering Design ("C" or higher)

Course Numbers: 5644A/B Grades 10 – 12
FULL YEAR 2 Credits
Core 40, AHD & THD elective & directed elective course

- PLTW-Build mechanisms, structures, and control systems ; Apply energy and power sources to construction projects; Optimize project creation through CAD software; Test material properties and attributes
- Construct creative project solutions using engineering and mathematical skills; Obtain statistics and ballistic experience through hands-on application

Note: Students will earn 3 Ivy Tech college credits upon successful completion of this course.

CIVIL ENGINEER & ARCHITECTURE/DESN105 IVY (DC)

Prerequisite: Principles of Engineering ("C" or higher)

Course Numbers: 5650A/B Grades 11 – 12
FULL YEAR 2 Credits
Core 40, AHD & THD elective & directed elective course

- PLTW-Discover the history of architecture and civil engineering; Recognize and comprehend a diverse set of architectural styles and features; Design residential and commercial floor plans and building models; Assess building materials and structural integrity
- Develop new CAD skills working with Autodesk Revit, an architectural design software; Utilize creative problem solving skills to create new engineering and architectural designs

COMPUTERS IN DESIGN AND PRODUCTION

Prerequisite: CEA with a "C" or higher

Course Numbers: 4800A/B Grades 11– 12
FULL YEAR 2 Credits
Core 40, AHD & THD elective & directed elective course

- specializes in using modern technological in the production of products and structures
- Emphasis is placed on using modern technologies and on developing career related skills for electronics, manufacturing, precision machining, welding, and architecture career pathways

- Course content should address major technological content related to topics such as: Architectural drawing and print design, design documentation using CAD systems; assignments involving the interface of CAD, CNC, CAM, and CIM technologies; computer simulation of products and systems; publishing of various media

Note: Students will earn 3 Ivy Tech college credits upon successful completion of this course.

CONSTRUCTION TRADES - CARPENTRY		
PRINCIPLES CLASS	CONCENTRATOR "A" CLASS	CONCENTRATOR "B" CLASS
Principles of Construction Trades	General Carpentry	Masonry Fundamentals

PRINCIPLES OF CONSTRUCTION TRADES

Course Numbers: 7130 Grades 10– 12
FULL YEAR 2 Credits
Core 40, AHD & THD elective & directed elective course

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

CONSTRUCTION TRADES: GENERAL CARPENTRY

Prerequisite: Principles of Construction Trades or concurrent enrollment

Course Numbers: 7123 Grades 10 – 12
FULL YEAR 2 Credits
Core 40, AHD & THD elective & directed elective course

- Builds upon the skills learned in the Principles of Construction
- Examines the basics of framing including studying the procedures for laying out and constructing floor systems, wall systems, ceiling joist and roof framing, and basic stair layout.

CONSTRUCTION TRADES: MASONRY FUNDAMENTALS

Prerequisite: Principles of Construction Trades or concurrent enrollment

Course Numbers: 7390 Grades 10 – 12
FULL YEAR 2 Credits
Core 40, AHD & THD elective & directed elective course

- Covers foundations of completing masonry work including safety, tools, and the basics of brick and block construction.
- After mastering the basics, students will be introduced to advanced masonry techniques including control and expansion joints, corners and intersections.

ENGLISH EDUCATION

SENIOR LEVEL COURSES	CREDITS	PREREQUISITES
AP Literature & Composition	2	*AP Language* or teacher recommendation
English 12	2	None
Composition	2	"B" or higher in English 11B and scheduling conflicts
Ivy Tech English 111/206	2	Cumulative GPA of 2.7 or higher - Earn 6 DC from Ivy Tech
Ivy Tech Fundamental Speaking	1	Cumulative GPA of 2.7 or higher - Earn 3 DC from Ivy Tech
Student Media: Cadet News	2	*85% or higher in Digital Media and to continue to 2nd semester class*
Audio and Visual Production Essentials	2	Principles of Broadcasting and "C" or higher
Mass Media Productions	2	Principles of Broadcasting and "C" or higher
Principles of Broadcasting	2	None
Creative Writing	1	None
Student Media: Yearbook	2	*None - 85% or higher to continue to 2nd semester class*
JUNIOR LEVEL COURSES	**CREDITS**	**PREREQUISITES**

AP Language & Composition	2	*Pre AP English 10* ("B" or higher); *English 10* ("A" or higher)
English 11	2	None
Student Media: Cadet News	2	*85% or higher in Digital Media and to continue to 2nd semester class*
Creative Writing	1	None
Student Media: Yearbook	2	*None - 85% or higher to continue to 2nd semester class*
Audio and Visual Production Essentials	2	Principles of Broadcasting and "C" or higher
Principles of Broadcasting	2	None
Mass Media Productions	2	Principles of Broadcasting and "C" or higher
SOPHOMORE LEVEL COURSES	**CREDITS**	**PREREQUISITES**
English 10 Honors	2	*English 9* ("B" or higher); *English 9* ("A" or higher)
English 10	2	None
Principles of Broadcasting	2	None
Student Media: Cadet News	2	*85% or higher in Digital Media and to continue to 2nd semester class*
Student Media: Yearbook	2	*None - 85% or higher to continue to 2nd semester class*
Creative Writing	1	None
Audio and Visual Production Essentials	2	Principles of Broadcasting and "C" or higher
Mass Media Productions	2	Principles of Broadcasting and "C" or higher
FRESHMAN LEVEL COURSES	**CREDITS**	**PREREQUISITES**
English 9 Honors	2	*PACE* ("B" or higher); *English 8* ("A" or higher); teacher recommendation
English 9	2	None
Principles of Broadcasting	2	None
Student Media: Yearbook	2	*None - 85% or higher to continue to 2nd semester class*

ARTS, AV TECH, COMMUNICATION - RADIO AND TELEVISION		
PRINCIPLES CLASS	CONCENTRATOR "A" CLASS	CONCENTRATOR "B" CLASS
Principles of Broadcasting	Audio & Video Production	Mass Media Production

PRINCIPLES OF BROADCASTING

Course Numbers: 7139 Grade 10-12
TWO SEMESTERS 2 Credits
Core 40, AHD & THD elective & directed elective course

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

AUDIO AND VIDEO PRODUCTION ESSENTIALS

Prerequisite: Principles of Broadcasting ("C" or higher)

Course Numbers: 7306 Grade 10-12
TWO SEMESTERS 2 Credits
Core 40, AHD & THD elective & directed elective course

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

Note: Offered school year 24-25.

MASS MEDIA PRODUCTIONS

Prerequisite: Principles of Broadcasting ("C" or higher)

Course Numbers: 7307 Grade 10-12
TWO SEMESTERS 2 Credits
Core 40, AHD & THD elective & directed elective course

- Study the theory and practice in the voice and visual aspects of radio and television performance.
- Introduces the skills used to acquire and deliver news stories in a digital media format.

- Students will learn how to research issues and events, interview news sources, interact with law enforcement and government officials, along with learning to write in a comprehensive news style.

Note: Offered school year 25-26.

ENGLISH EXPOSITION AND COMPOSITION (ENGL 111 IVY TECH) DC

Prerequisite: Qualifying requirements for Ivy Tech

Course Numbers: 1124A Grade 12
ONE SEMESTER 1 Credit
Core 40, AHD & THD English/Language Arts course

- Review previously learned writing, grammar, vocabulary, and reading strategies as dictated by Indiana English 12 standards
- Introduce and practice workplace writing and communicating techniques; Introduce and study various British literature works; Complete extensive reading, writing, and presentation activities
- Participate daily as an integral part of the course

Note: Must purchase textbook; upon successful completion of this course, students will earn 3 Ivy Tech college credits and I high school credit.

INTRODUCTION TO LITERATURE (ENGL 206 IVY TECH) DC

Prerequisite: Qualifying requirements for Ivy Tech and pass English 111.

Course Numbers: 1124B Grade 12
ONE SEMESTER 1 Credit
Core 40, AHD & THD English/Language Arts course

- Review previously learned writing, grammar, vocabulary, and reading strategies as dictated by Indiana English 12 standards
- Introduce critically reading and interpreting work of poetry, fiction, drama; Introduce motives of literature analysis and methods of literacy concerns through class discussion and writing assignments
- Complete extensive reading, writing, and presentation activities; Participate daily as an integral part of the course

Note: Must purchase textbook; upon successful completion of this course, students will earn 3 Ivy Tech college credits and I high school credit.

ENGLISH 12

Prerequisite: English 11

Course Numbers: 1008A/B Grade 12
FULL YEAR 2 Credits
Core 40, AHD & THD English/Language Arts course

- Review previously learned writing, grammar, vocabulary, and reading strategies as dictated by Indiana English 12 standards
- Introduce and practice workplace writing and communicating techniques; Introduce and study various British literature works; Complete extensive reading, writing, and presentation activities
- Participate daily as an integral part of the course

COMPOSITION

Prerequisite: "B" or higher in English 11B and senior scheduling conflicts

Course Numbers: 1090A/B Grade 12
FULL YEAR 2 Credits
Core 40, AHD & THD English/Language Arts course

- Using the writing process, students demonstrate a command of vocabulary, English language conventions, research and organizational skills, an awareness of the audience, the purpose for writing, and style.
- Students read classic and contemporary literature or articles and use appropriate works as models for writing.
- Students write a variety of types of compositions with a focus on fictional narratives, reflective compositions, academic essays, and responses to literature.

Note: Class will be an independent study for senior students with scheduling conflicts.

AP LITERATURE AND COMPOSITION

Prerequisite: AP Language and Composition ("B" or higher) OR English 11 ("A" or higher) OR teacher recommendation

Course Numbers: 1058A/B Grade 12
FULL YEAR 2 Credits
Core 40, AHD & THD English/Language Arts course

- Trace the development of drama and the novel; Study works of authors such as Homer, Sophocles, Shakespeare, Austen, Tolstoy, Ibsen, Rostand, James, Huxley, Shaw, O'Neill, and Fitzgerald
- Examine significant British literary pieces including *Beowulf*, *The Canterbury Tales*, *Le Morte d'Arthur*, and *Lord of the Flies*
- Compose literary analysis research paper, various essays, and timed writings; Develop vocabulary through word study and literary context; Contribute to class discussions and oral presentations

Note: There is a summer assignment that must be done prior to class starting in the fall. This is a grade-weighted course; Students are expected to take the *AP Literature and Composition* exam in May.

ENGLISH 9

Course Numbers: 1002A/B Grade 9
FULL YEAR 2 Credits
Core 40, AHD & THD English/Language Arts course

- Learn fundamental skills in grammar, composition, speech, and literature; Focus on activities in spelling, vocabulary, the writing process, speech outlines/delivery, and study techniques; Analyze reading selections from a variety of genres, including short stories, poetry, drama, nonfiction, informational, and technical materials
- Introduce library resources and MLA format; Practice in-depth writing exercises, including character sketches, essay questions, literary analysis, etc.

ENGLISH 9 HONORS

Prerequisite: PACE ("B" or higher), English 8 "A" AND teacher recommendation
Course Numbers: 1002A/B Grade 9
FULL YEAR 2 Credits
Core 40, AHD & THD English/Language Arts course

- Read challenging literature, including novels, plays, short stories, poetry, and nonfiction texts; Develop skills in literary analysis; Write expository and argumentative essays
- Study vocabulary and etymology; Practice language grammar and conventions; Research and present on a persuasive topic

Note: This is a grade-weighted course.

ENGLISH 10

Prerequisite: English 9
Course Numbers: 1004A/B Grade 10
FULL YEAR 2 Credits
Core 40, AHD & THD English/Language Arts course

- Review fundamental skills in grammar, composition, literature, spelling, vocabulary, and the writing process
- Develop skills in reading comprehension and vocabulary; Study a variety of genres, including short story, drama, informational and technical materials, and nonfiction; Produce a variety of essays, including informative research, literary, and technical; Deliver and evaluate effective speeches; Practice effective research strategies, including locating sources, making bibliography and note cards, creating outlines, using parenthetical documentation, and compiling a works cited page

Note: Class of 2022 must take and pass the *English 10* ISTEP to graduate with a high school diploma.

ENGLISH 10 HONORS

Prerequisite: English 9 Honors ("B" or higher) OR teacher recommendation
Course Numbers: 1004A/B Grade 10
FULL YEAR 2 Credits
Core 40, AHD & THD English/Language Arts course

- Interpret and analyze a broad selection of literature and nonfiction in terms of their historical and social significance and the author's use of stylistic devices; Determine the meanings of words and word parts as they are used in context, including figurative and connotative meanings; Demonstrate understanding and mastery of standard written English
- Produce analytical, argumentative, and narrative compositions that show effective treatment of the stages of the writing process; Evaluate and integrate multiple sources of information presented in different mediums (written and visual) in both a written and spoken format

Note: This is a grade-weighted course; Students must take and pass the *English 10* ISTEP to graduate with a high school diploma. The class has a required summer assignment.

ENGLISH 11

Prerequisite: English 10

Course Numbers: 1006A/B Grade 11
FULL YEAR 2 Credits
Core 40, AHD & THD English/Language Arts course

- Produce written work covering the following skills: persuasive theme, literary theme, and technical writing
- Introduce research techniques and write a multiple page research paper; Improve writing style by varying sentence structures; Read various forms of texts, including a study of American literary selections; Read at least one play and one novel; Develop vocabulary skills; Review spelling skills; Practice effective speaking and listening

AP LANGUAGE AND COMPOSITION

Prerequisite: English 10 Honors ("B" or higher), PSAT, AP Potential or teacher recommendation

Course Numbers: 1056A/B Grades 11
FULL YEAR 2 Credits
Core 40, AHD & THD English/Language Arts course

- Analyze and interpret samples of good writing and visuals, identifying and explaining an author's use of rhetorical strategies and techniques; Apply effective strategies and techniques in students' own writing; Create and sustain arguments based on readings, research, and/or personal experience; Demonstrate understanding and mastery of standard written English as well as stylistic maturity in students' own writing
- Produce expository, analytical, and argumentative compositions that introduce a complex central idea and develop it with appropriate evidence drawn from primary and/or secondary source material, cogent explanations, and clear transitions
- Move effectively through the stages of the writing process, with careful attention to inquiry and research, drafting, revising, editing, and review; Write thoughtfully about students' own process of composition

Note: There is a summer assignment that must be done prior to class starting in the fall. This is a grade-weighted course; Students are expected to take the *AP Language and Composition* exam in May.

FUNDAMENTALS OF PUBLIC SPEAKING (COMM 101 IVY TECH) DC

Prerequisite: Qualifying requirements for Ivy Tech

Course Numbers: 1076 Grade 12
ONE SEMESTER 1 Credit
Core 40, AHD & THD English/Language Arts course

- Review previously learned writing, grammar, vocabulary, and reading strategies as dictated by Indiana English 12 standards
- Introduce and practice workplace writing and communicating techniques; Introduce and study various British literature works; Complete extensive reading, writing, and presentation activities; Participate daily as an integral part of the course

Note: Must purchase textbook; upon successful completion of this course, students will earn 3 Ivy Tech college credits and I high school credit.

CREATIVE WRITING

Prerequisite: "B" or higher in previous English course

Course Number: 1092 Grades 10 – 12
ONE SEMESTER 1 Credit
Core 40, AHD & THD elective & directed elective course

- Produce creative writing in the areas of poetry, short stories, and plays; Maintain a writing journal to generate raw material; Reinforce basic writing techniques; Analyze elements of successful creative writing
- Produce publishable, original creative writing; Assemble a collection of personal work

STUDENT MEDIA: CADET NEWS

Prerequisite: *85% or higher in Digital Media and to continue to 2nd semester class*

Course Numbers: 1086A/B Grades 11 – 12
ONE SEMESTER or FULL YEAR 1-8 Credits
Core 40, AHD & THD elective & directed elective course or fills FINE ARTS credit for AHD

- Attend mandatory monthly work nights and other out-of-school activities, including club meetings and sporting events

Participate in journalism-focused field trips; Learn principles of journalistic writing, design, ethics, problem solving, teamwork, leadership, and organizational skills

- Produce the *Cadet News,* newsmagazine and yearbook for the student body and community; Take photos, write stories, interview students, conduct polls, and other tasks related to production of newsmagazine; Sell ads to local businesses

STUDENT MEDIA: YEARBOOK

Prerequisite: *None - 85% or higher to continue to 2nd semester class*

Course Numbers: 1086A/B Grades 9 – 12

ONE SEMESTER or FULL YEAR 1-8 Credits

Core 40, AHD & THD elective & directed elective course or fills FINE ARTS credit for AHD

- Attend mandatory monthly work nights and other out-of-school activities, including club meetings and sporting events

Participate in journalism-focused field trips; Learn principles of journalistic writing, design, ethics, problem solving, teamwork, leadership, and organizational skills

- Produce the *Yearbook* for the student body and community; Take photos, write stories, interview students, conduct polls, and other tasks related to production of newsmagazine; Sell ads to local businesses

FAMILY & CONSUMER SCIENCE

SENIOR LEVEL COURSES	CREDITS	PREREQUISITES
Child and Adolescent Development	2	Principles of Teaching and "C" or higher
Nutrition	2	Principles of Culinary and Hospitality and "C" or higher
Adv. Nutrition & Wellness	1	*Nutrition & Wellness*
Intro to Culinary Arts	1	*Adv. Nutrition and Wellness*
Principles of Culinary and Hospitality	2	*None*
Culinary Arts	2	Principles of Culinary and Hospitality and "C" or higher
Advanced Child Development I & II	2	None
Intro to Fashion and Textiles	1	*None*
Intro to Housing and Interior Design	1	*None*
JUNIOR LEVEL COURSES	**CREDITS**	**PREREQUISITES**
Child and Adolescent Development	2	Principles of Teaching and "C" or higher
Nutrition	2	Principles of Culinary and Hospitality and "C" or higher
Advanced Child Development I & II	2	None
Adv. Nutrition & Wellness	1	*Nutrition & Wellness*
Intro to Culinary Arts	1	*Adv. Nutrition and Wellness*
Principles of Culinary and Hospitality	2	*None*
Culinary Arts	2	Principles of Culinary and Hospitality and "C" or higher
Intro to Fashion and Textiles	1	*None*
Intro to Housing and Interior Design	1	*None*
SOPHOMORE LEVEL COURSES	**CREDITS**	**PREREQUISITES**
Child and Adolescent Development	2	Principles of Teaching and "C" or higher
Nutrition	2	Principles of Culinary and Hospitality and "C" or higher
Advanced Child Development I & II	2	None
Adv. Nutrition & Wellness	1	*Nutrition & Wellness*
Culinary Arts	2	Principles of Culinary and Hospitality and "C" or higher
Intro to Culinary Arts	1	*Adv. Nutrition and Wellness*
Principles of Culinary and Hospitality	2	*None*
Intro to Fashion and Textiles	1	*None*
Intro to Housing and Interior Design	1	*None*
FRESHMAN LEVEL COURSES	**CREDITS**	**PREREQUISITES**
Principles of Culinary and Hospitality	2	*None*
Intro to Fashion and Textiles	1	*None*
Intro to Housing and Interior Design	1	*None*

CULINARY ARTS – BAKING AND PASTRY		
PRINCIPLES CLASS	CONCENTRATOR "A" CLASS	CONCENTRATOR "B" CLASS
Principles of Culinary and Hospitality	Nutrition	Culinary Arts

PRINCIPLES OF CULINARY AND HOSPITALITY

Course Number: 7173 Grades 10 – 11
TWO SEMESTERS 2 Credits
Core 40, AHD & THD elective & directed elective course

- Designed to develop an understanding of the hospitality industry and career opportunities, and responsibilities in the food service and lodging industry.
- Students will learn the fundamentals of food preparation, basic principles of sanitation, service procedures, and safety practices in the food service industry including proper operation techniques for equipment.

NUTRITION

Prerequisite: Principles of Culinary and Hospitality ("C" or higher)

Course Number: 7171 Grades 10 – 12
TWO SEMESTERS 2 Credits
Core 40, AHD & THD elective & directed elective course

- Students will learn the characteristics, functions and food sources of the major nutrient groups and how to maximize nutrient retention in food preparation and storage.
- Students engage in hands-on learning of nutritional concepts such as preparing nutrient dense meals or examining nutritional needs of student athletes

Note: Class will be offered in the 24-25 school year.

CULINARY ARTS

Prerequisite: Principles of Culinary and Hospitality ("C" or higher)

Course Number: 7169 Grades 10 – 12
TWO SEMESTERS 2 Credits
Core 40, AHD & THD elective & directed elective course

- Emphasis is placed on the further development of the classical cooking methods.
- Course will also present the fundamentals of baking science including terminology, ingredients, weights and measures, and proper use and care of equipment.
- Students will produce yeast goods, pies, cakes, cookies, and quick breads.

Note: Class will be offered in the 25-26 school year

INTRODUCTION TO FASHION AND TEXTILES

Course Number: 5380 Grades 9 – 12
ONE SEMESTER 1 Credit
Fulfills AHD fine arts requirement
Core 40, AHD & THD elective & directed elective course

- Study of knowledge and skills related to design, production, acquisition, and distribution in the fashion, textile, and apparel arena; Study of factors influencing the merchandising and selection of fashion, textile, and apparel goods and their properties, design, and production
- Project based approach integrates instruction and laboratory experiences including application of the elements and principles of design, aesthetics, criticism, history and production; selection, production, alteration, repair, and maintenance of apparel and textile products

INTRODUCTION TO HOUSING AND INTERIOR DESIGN

Course Number: 5350 Grades 9 – 12
ONE SEMESTER 1 Credit
Fulfills AHD fine arts requirement
Core 40, AHD & THD elective & directed elective course

- Addresses the selection and planning of designed spaces to meet the needs, wants, values and lifestyles of individuals, families, clients, and communities; Developmental influences on housing and interior environments will also be considered.
- Basic historical architectural styling and basic furniture styles will be explored as well as basic identification of the elements and principles of design.

CHILD AND ADOLESCENT DEVELOPMENT

Prerequisite: Principles of Teaching and "C" or higher

Course Number: 7157 Grades 10 – 12
TWO SEMESTER 2 Credits
Core 40, AHD & THD elective & directed elective course

- Study growth and development of children; Develop understanding of becoming a nurturing and loving caregiver; Study parenting skills including support systems; Study emotional, physical, psychological, and mental development from conception to age three.
- Develop and experiment with age appropriate activities for children in different settings

Note: Class is part of the Education Professions NLPS Pathway. Taught in the 24-25 school year.

FINE ARTS (VISUAL)

SENIOR & JUNIOR & SOPHOMORE LEVEL COURSES	CREDITS	PREREQUISITES
Ceramics I-V	1	Previous Ceramics class
Painting I-V	1	*Intro 2D Art and previous Painting class*
Drawing I-V	1	*Intro 2D Art and previous Drawing class*
Intro 2D Art	1	None
Intro 3D Art	1	None
FRESHMAN LEVEL COURSES	**CREDITS**	**PREREQUISITES**
Intro 2D Art	1	None
Intro 3D Art	1	None
Drawing II	1	*Drawing I*
Drawing I	1	*Intro 2D Art*
Painting II	1	*Painting I*
Painting I	1	*Intro 2D Art*

INTRO TO TWO-DIMENSIONAL ART

Course Number: 4000 Grades 9 – 12
ONE SEMESTER 1 Credit
Core 40, AHD & THD elective & directed elective course
Fulfills AHD fine arts requirement

- Explore various two dimensional media and techniques; Acquire skills necessary for knowledgeable and creative expression in design; Communicate personal vision and meaning in class assignments
- Identify and incorporate the elements and principles of design in artworks; Engage in research and inquiry into historical, social and cultural context of art objects; Critique personal work as well as that of peers
- Learn visual arts-related vocabulary

Note: Completion of this course with a passing grade is a prerequisite for students to enroll in all other visual arts courses; Students will be expected to maintain a sketchbook.

INTRO TO THREE DIMENSIONAL ART

Course Number: 4002 Grades 9 – 12
ONE SEMESTER 1 Credit
Core 40, AHD & THD elective & directed elective course
Fulfills AHD fine arts requirement

- Students explore and analyze, interpret, theorize, and make informed High School Approved Course Titles & Descriptions Indiana Department of Education 108 2015-2106 School Year July 15, 2015 Edition judgments about

artwork and the nature of art; create three-dimensional works of art, reflect upon the outcomes, and revise their work; relate art to other disciplines and discover opportunities for integration. Explore various two dimensional media and techniques
- Acquire skills necessary for knowledgeable and creative expression in design

Note: Completion of this course with a passing grade is a prerequisite for students to enroll in all other visual arts courses; Students will be expected to maintain a sketchbook.

DRAWING I-V

Prerequisite: Intro to 2-D Art and previous Drawing class

Course Number: 4060 Grades 9 – 12
ONE SEMESTER 1 Credit
Core 40, AHD & THD elective & directed elective course
Fulfills AHD fine arts requirement

- Incorporate prior knowledge of the elements and principles of design into new works; Communicate visually through class work; Explore a variety of drawing mediums and techniques; Focus on realistic rendering, craftsmanship and personal artistic style; Introduce ancient art history as well as art traditions from around the world
- Critique personal work as well as that of peers; Write about a variety of topics as they pertain to art aesthetics, production and criticism

Note: Students will be expected to maintain a sketchbook.

PAINTING I-V

Prerequisite: Intro to 2-D Art and previous Painting class

Course Number: 4064 Grades 9 – 12
ONE SEMESTER 1 Credit
Core 40, AHD & THD elective & directed elective course
Fulfills AHD fine arts requirement

- Incorporate prior knowledge of the elements and principles of design into new works; Communicate visually through class work; Explore a variety of painting mediums and techniques; Focus on realistic rendering, craftsmanship and personal artistic style; Introduce the beginnings of western art traditions as well as modern art traditions
- Critique personal work as well as that of peers; Write about a variety of topics that pertain to art aesthetics, production and criticism

CERAMICS I -V

Prerequisite: Previous Ceramics class

Course Number: 4040I & 4040II Grades 9 – 12
ONE SEMESTER 1 Credit
Core 40, AHD & THD elective & directed elective course
Fulfills AHD fine arts requirement

- Incorporate prior knowledge of the elements and principles of design into new works; Learn a variety of techniques used to create both functional and ornamental ceramics; Develop a vocabulary of ceramic terms
- Explore a variety of glazes and glazing techniques; Develop a knowledge of clay stages and firing process

Note: Students will be expected to maintain a sketchbook.

STUDENT MEDIA: Yearbook

Prerequisite: Teacher recommendation only

Course Numbers: 1086A/B Grades 9 – 12
ONE SEMESTER or FULL YEAR 1-8 Credits
Core 40, AHD & THD elective & directed elective course or fills FINE ARTS credit for AHD

- Produce the *Cadet News,* newsmagazine and yearbook for the student body and community
- Take photos, write stories, interview students, conduct polls, and other tasks related to production of newsmagazine
- Sell ads to local businesses and participate in journalism-focused field trips
- Attend mandatory monthly work nights and other out-of-school activities, including club meetings and sporting events.

NOTE: Fulfills the Fine Arts requirement for the Core 40 with Academic Honors.

FINE ARTS (PERFORMANCE)

SENIOR & JUNIOR & SOPHOMORE & FRESHMAN LEVEL COURSES	CREDITS	PREREQUISITES
Intermediate Chorus	2	Audition or approval
Advanced Chorus	2	Audition or approval
Applied Music: Studio Voice I & II	1-2	Audition or approval
Intermediate Concert Band	2	Audition or approval
Jazz Band	2	Audition or approval
Music Theory and Composition I & II	1	None

INTERMEDIATE CONCERT BAND

Prerequisite: Previous instrument experience and director approval

Course Number: 4168A/B Grades 9 – 12
FULL YEAR 1-8 Credits
Core 40, AHD & THD elective & directed elective course
Fulfills AHD fine arts requirement

- Perform creative music in front of large crowds at football games, community events, and competitions; Perform in many venues including auditoriums, concert halls, stadiums, and other local venues
- Discover principles of leadership in a setting with peers; Excel at performing music at the highest level

Note: This is the major performing group for the high school instrumental department; Students are expected to attend home football and basketball games, in addition to weekend competitions during fall and spring semesters.

JAZZ BAND

Prerequisite: Previous instrument experience and director approval

Course Number: 4164A/B Grades 9 – 12
FULL YEAR 1-8 Credits
Core 40, AHD & THD elective & directed elective course
Fulfills AHD fine arts requirement

- Perform some of the most sophisticated jazz literature; Explore different sub-genres of jazz music
- Excel at performing music at the highest level; Perform in many venues including auditoriums, concert halls, stadiums, and other local venues

Note: Rehearsals are scheduled during the day.

APPLIED MUSIC: STUDIO VOICE

Prerequisite: Director Approval

Course Numbers: 4200 Grades 10 – 12
One semester 4-8 Credits
Core 40, AHD & THD elective & directed elective course
Fulfills AHD fine arts requirement

- The opportunity to receive small group or private instruction designed to develop and refine skill
- A variety of music methods and repertoire is utilized to refine students' abilities in performing, creating, and responding to music.

MUSIC THEORY AND COMPOSITION I and II

Course Numbers: 4208 Grades 10 – 12
One semester 1 Credit
Core 40, AHD & THD elective & directed elective course
Fulfills AHD fine arts requirement

- Develop ear training and dictation skills, compose works that illustrate mastered concepts, understand harmonic structures and analysis, understand modes and scales, study a wide variety of musical styles, study traditional and nontraditional music notation and sound sources as tools for musical composition, and receive detailed instruction in other basic elements of music.

INTERMEDIATE CHORUS

Prerequisite: Audition and/or director approval

Course Numbers: 4186A/B Grades 9 – 12

FULL YEAR 1-8 Credits

Core 40, AHD & THD elective & directed elective course

Fulfills AHD fine arts requirement

- Review and practice previously learned vocal techniques and reading of music notation; Develop and practice critical listening skills; Study and perform intermediate choral literature
- Participate in performance opportunities outside of the classroom

Note: Preferred female only. This is the major performing group for the high school instrumental department; Students are expected to attend home football and basketball games, in addition to weekend competitions during fall and spring semesters.

ADVANCED CHORUS

Prerequisite: Audition and/or director approval

Course Numbers: 4188A/B Grades 9 – 12

FULL YEAR 1-8 Credits

Core 40, AHD & THD elective & directed elective course

Fulfills AHD fine arts requirement

- Review and practice previously learned vocal techniques and reading of music notation; Continue to develop and practice critical listening skills
- Study and perform advanced choral literature; Participate in performance opportunities outside of the classroom

MATH EDUCATION

SENIOR LEVEL COURSES	CREDITS	PREREQUISITES
Finite Math	1	*Algebra II*
Probability & Statistics	1	*Algebra II*
AP Calculus BC	2	*AP calculus AB*
AP Calculus AB	2	*Pre-Calculus*
Pre-Calculus	2	*Algebra II Honors*
Algebra II or Honors	2	*Algebra I*
Geometry or Honors	2	*Algebra I*
Algebra I	2	*None*
College Algebra 136	1	*Qualifying requirements for Ivy Tech and 27 on PSAT, 550 on SAT, 24 ACT or 74 on Accuplacer*
College Trigonometry 137	1	*Pass Algebra 136 with a "C" or higher*
JUNIOR LEVEL COURSES	**CREDITS**	**PREREQUISITES**
AP Calculus AB	2	*Pre-Calculus*
Pre-Calculus	2	*Algebra II Honors*
Algebra II or Honors	2	*Algebra I*
Geometry or Honors	2	Algebra I
Algebra I	2	None
SOPHOMORE LEVEL COURSES	**CREDITS**	**PREREQUISITES**
Pre-Calculus	2	*Algebra II Honors*
Algebra II or Honors	2	*Algebra I*
Algebra I	2	None
FRESHMAN LEVEL COURSES	**CREDITS**	**PREREQUISITES**
Honors Algebra II	2	*Geometry –"B" or higher*
Honors Geometry	2	*Algebra I -"B" or higher*
Algebra I	2	None

CHS MATH SEQUENCES

GRADE	MATH COURSE	MATH COURSE	MATH COURSE	MATH COURSE
7	ALGEBRA	-	-	-
8	GEOMETRY HONORS	ALGEBRA	-	-
9	ALGEBRA II HONORS	GEOMETRY HONORS	ALGEBRA	ALGEBRA/ALGEBRA LAB
10	PRECALCULUS	ALGEBRA II HONORS	ALGEBRA II	ALGEBRA II/MATH LAB
11	AP CALCULUS AB	PRECALCULUS	GEOMETRY	GEOMETRY
12	AP CALCULUS BC, FINITE/PROB, DC	AP CALCULUS AB, FINITE/PROB, DC	FINITE/PROBABILITY	FINITE/PROBABILITY

ALGEBRA I

Course Numbers: 2520A/B Grades 9 – 12
FULL YEAR 2 Credits
Core 40, AHD & THD Mathematics course

- Develop algebraic skills and concepts; Prepare for Geometry and Algebra II; Learn problem solving skills and the concept of functions; Study properties of real numbers, equations, inequalities, exponents, and introductory topics from statistics and probability
- Graph linear equations and systems of equations

GEOMETRY or HONORS GEOMETRY

Prerequisite: Algebra I

Course Numbers: 2532A/B Grades 9 – 12
FULL YEAR 2 Credits
Core 40, AHD & THD Mathematics course

- Build deductive and inductive reasoning skills; Learn investigative strategies in drawing conclusions
- Study angles, lines, planes, congruent and similar triangles, trigonometric ratios, polygons, circles, and spatial drawings and relationships; Develop an understanding of proof and logic

Note: Students who wish to enroll in both *Geometry* and *Algebra II* concurrently must have earned an "A" in the first semester of *Algebra I* and must receive the math department chair's approval. These students should have the intent of taking higher level math during their senior year.

ALGEBRA II or HONORS ALGEBRA II

Prerequisite: Algebra I

Course Numbers: 2522A/B Grades 9 – 12
FULL YEAR 2 Credits
Core 40, AHD & THD Mathematics course

- Expand the topics of Algebra I and further develop the concept of various functions; Study theorems and algorithms of algebra, polynomials and polynomial functions, rational functions, exponential and logarithmic functions
- Learn the complex number system, sequences and series, and the properties and graphs of conic sections
- Develop a deeper understanding of probability with introduction to permutations, combinations, and matrices

Note: In order to take Pre-Calculus in the future, students are required to enroll in AP Honors Algebra II. For AP Honors Algebra II a math teacher can determine selection.

Note: Students who wish to enroll in both *Algebra II* and *Geometry* concurrently must have earned an "A" in the first semester of *Algebra I* and must receive the math department chair's approval. These students should have the intent of taking higher level math during their senior year.

PRE-CALCULUS

Prerequisite: Algebra II Honors

Course Numbers: 2564A/B Grades 10 – 12
FULL YEAR 2 Credits
Core 40, AHD & THD Mathematics course

- Learn and further develop concepts to prepare students for college level work in math; Develop an understanding of various functions and their graphs; Study a wide variety of trigonometric topics, including solution of triangles, circular functions, trigonometric identities and application
- Introduce basic Calculus concepts such as continuity and limits

Note: Students are required to have a graphing calculator.

AP CALCULUS AB

Prerequisite: Pre-Calculus

Course Numbers: 2562A/B Grades 11 – 12

FULL YEAR 2 Credits

Core 40, AHD & THD Mathematics course

- Learn a full academic year of calculus and related topics; Study application of topics related to various fields of science and engineering; Practice higher order thinking skills such as application, analysis, synthesis, and evaluation
- Earn college credit and/or advanced placement in college

Note: Students are required to have a graphing calculator.

Note: This is a grade-weighted course; Students are expected to take the AP Calculus AB exam in May.

AP CALCULUS BC

Prerequisite: AP Calculus AB

Course Numbers: 2562A/B Grades 11 – 12

FULL YEAR 2 Credits

Core 40, AHD & THD Mathematics course

- Learn a full academic year of calculus and related topics; Study application of topics related to various fields of science and engineering; Practice higher order thinking skills such as application, analysis, synthesis, and evaluation
- Earn college credit and/or advanced placement in college

Note: Students are required to have a graphing calculator.

Note: This is a grade-weighted course; Students are expected to take the AP Calculus BC exam in May.

PROBABILITY AND STATISTICS

Prerequisite: Algebra II (Honors)

Course Number: 2546A/B Grade 11-12

ONE SEMESTER 1 Credit

Core 40, AHD & THD Mathematics course

- Acquire skills to apply statistical techniques; Apply skills in the decision-making process
- Learn about descriptive statistics and probability; Study statistical inference

FINITE MATHEMATICS

Prerequisite: Algebra II (Honors)

Course Number: 2530A/B Grade 11-12

ONE SEMESTER 1 Credit

Core 40, AHD & THD Mathematics course

- Survey mathematical analysis techniques taken from discrete math which are relevant to the business world
- Study set theory, counting techniques, probability, statistical models, systems of equations, matrix algebra, and linear programming; Learn about Markov chains and finance

Note: Students choosing Finite and Probability instead of Pre-Calculus, college selection could be limited.

COLLEGE ALGEBRA (MATH 136 IVY TECH) DC

Prerequisite: Qualifying requirements for Ivy Tech and 27 on PSAT, 550 on SAT or 74 on Accuplacer, 24 ACT

Course Numbers: 2544A Grade 12

ONE SEMESTER 1 Credit

Core 40, AHD & THD Mathematics course

Note: Must purchase online curriculum and have a scientific calculator; Upon successful completion of this course, students will earn 3 Ivy Tech college credits and 1 high school credit.

COLLEGE TRIGONOMETRY (MATH 137 IVY TECH) DC

Prerequisite: Qualifying requirements for Ivy Tech, 27 on PSAT, 550 on SAT or 74 on Accuplacer AND pass Math 136.

Course Numbers: 2544B Grade 12

ONE SEMESTER 1 Credit

Core 40, AHD & THD Mathematics course

Note: Must purchase online curriculum and have a scientific calculator; students will earn 3 Ivy Tech college credits and 1 high school credit.

MULTIDISCIPLINARY EDUCATION

SENIOR LEVEL COURSES	CREDITS	PREREQUISITES
Basic Skills	1	Teacher approval with IEP
Peer Tutor	1	Teacher Approval
Education Professions	1	
Teaching and Learning	2	Principles of Teaching and "C" or higher
Child and Adolescent Development	2	Principles of Teaching and "C" or higher
JUNIOR LEVEL COURSES	**CREDITS**	**PREREQUISITES**
Basic Skills	1	Teacher approval with IEP
Peer Tutor	1	Teacher Approval
Principles of Teaching	2	*None*
Child and Adolescent Development	2	Principles of Teaching and "C" or higher
SOPHOMORE LEVEL COURSES	**CREDITS**	**PREREQUISITES**
Basic Skills	1	Teacher approval with IEP
Peer Tutor	1	Teacher Approval
Principles of Teaching	2	*None*
Child and Adolescent Development	2	Principles of Teaching and "C" or higher
FRESHMAN LEVEL COURSES	**CREDITS**	**PREREQUISITES**
Basic Skills	1	Teacher approval with IEP
Principles of Teaching	2	*None*

EDUCATION AND TRAINING - EDUCATION PROFESSIONS		
PRINCIPLES CLASS	CONCENTRATOR "A" CLASS	CONCENTRATOR "B" CLASS
Principles of Teaching	Child and Adolescent Development	Teaching and Learning

PRINCIPLES OF TEACHING

Course Numbers: 7161 Grade 9-12
TWO SEMESTERS 2 Credits
Core 40, AHD & THD elective & directed elective course

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

CHILD AND ADOLESCENT DEVELOPMENT

Prerequisite: Principles of Teaching and "C" or higher

Course Number: 7157 Grades 9 – 12
TWO SEMESTER 2 Credits
Core 40, AHD & THD elective & directed elective course

- Study growth and development of children; Develop understanding of becoming a nurturing and loving caregiver; Study parenting skills including support systems; Study emotional, physical, psychological, and mental development from conception to age three.
- Develop and experiment with age appropriate activities for children in different settings

Note: Class is part of the Education Professions NLPS Pathway. Taught in the 24-25 school year.

TEACHING AND LEARNING

Prerequisite: Principles of Teaching and "C" or higher

Course Numbers: 7162 Grade 12
TWO SEMESTERS 2 Credits
Core 40, AHD & THD elective & directed elective course

- Give the students the opportunity to apply many of the concepts that they have learned throughout the Education Professions pathway.
- Through hands-on experience with educational software, utility packages, and commonly used microcomputer hardware, students will analyze ways to integrate technology as a tool for instruction, evaluation, and management.

Note: Class is part of the Education Professions NLPS Pathway. Taught in the 25-26 school year.

PEER TUTORING

Prerequisite: Cumulative GPA of at least 2.0 and teacher approval

Course Numbers: 0520A/B Grades 10-12
ONE SEMESTER 1 Credit
Core 40, AHD & THD elective and directed elective

- Assist student in the Life Skills program with in-school jobs, implementation of physical and/or occupational, therapy, cooking, and other household chores; Interact with students in the Life Skills program who have cognitive, emotional and/or physical disabilities; Provide positive social peer relationships
- Learn about the challenges, struggles, and joys of working with individuals with disabilities
- Complete a research paper on a disability or class activities, or write a narrative reviewing peer tutor experiences

Note: Only a limited number of positions are available**.** Students can only take for two credits.

BASIC SKILLS

Prerequisite: Teacher approval

Course Numbers: 0500 Grades 9-12
ONE SEMESTER 1-8 Credit(s)
Core 40, AHD & THD elective and directed elective

- Course that provides students continuing opportunities to develop basic skills including: (1) reading, (2) writing, (3) listening, (4) speaking, (5) mathematical computation, (6) note taking, (7) study and organizational skills, and (8) problem-solving skills, which are essential for high school course work achievement. Assist student in the Life Skills program with in-school jobs, implementation of physical and/or occupational, therapy, cooking, and other household chores
- Determination of the skills to be emphasized in this course is based on Indiana's standards, individual school corporation general curriculum plans, and the student's Individualized Education Programs (IEP) or other individualized plans.

EDUCATION PROFESSIONS

Prerequisite: Cumulative GPA of at least 2.5GPA and teacher approval

Course Numbers: 5408A/B Grade 12
ONE SEMESTER 1 -2 Credits
Core 40, AHD & THD elective & directed elective course

- Work directly with the *Cadet Teaching* coordinator and the cooperating supervising teachers; Write reflective journals based on field experience; Create unique and meaningful displays to engage student learning; Develop standards-based lessons approved by supervising teacher; Students must provide their own transportation to the off campus experience.
- Present lessons in a formal instructional setting; Learning organization, classroom management, instructional process and lesson planning

Note: Designed for seniors interested in a career in teaching, early education and/or a field working directly with children; If students leave the building for this experience, they must provide their own transportation; Evaluation consists of completed tasks that are submitted to the *Education Professions* coordinator and the supervising teacher's evaluation of cooperation, practical performance and teaching performance; Students should expect a total workload consistent with other academic courses; Students will be evaluated through project-based assessments related to their experiences over the course of the semester.

HEALTH AND PHYSICAL EDUCATION

SENIOR & JUNIOR & SOPHOMORE & FRESHMAN LEVEL COURSES	CREDITS	PREREQUISITES
PE I	1	*Required class*
PE II	1	*Required class*
HEALTH	1	*Required class*
APC	1	*Must have earned a credit or enrolled in PE I or PE II.*
TEAM SPORTS	1	*Must have earned a credit or enrolled in PE I or PE II.*
YOGA	1	*Must have earned a credit or enrolled in PE I or PE II.*
PE ALTERNATIVE	2	*Complete a sports season to earn a PE I or PE II credit. Cannot be the same sport for 2 credits*.

PE I & PE II

Course Number: 3542 AND 3544 Grades 9-12

ONE SEMESTER EACH 1 Credit each

Fulfills Core 40, AHD & THD Physical Education requirement

- Students must obtain a uniform from the PE department; Emphasize health related and lifetime fitness activities; Obtain the basic knowledge for individual, team and recreational games; Provide students with opportunities to achieve specific skills in team, individual and recreational games; Increase social skills by learning the basic rules and strategies needed to referee specific individual and team sports; Engage in physical activities, such as flag football, tennis, volleyball, handball, dance, basketball, aquatic games, tumbling, speedball, table tennis and badminton
- Develop and apply strategies to improve cardio-respiratory endurance, muscular strength, flexibility and body composition; Assess both written and performance-based skills

Note: A credit in PE I and PE II should be completed by the end of the sophomore year. **Students who do not participate in 5 consecutive weeks of the course will be removed from the class with a WD.

ELECTIVE PHYSICAL EDUCATION: ADVANCED PHYSICAL CONDITIONING (APC)

Prerequisite: *Must have earned a credit or enrolled in PE I or PE II.*

Course Number: 3560A/B Grades 9-12

ONE SEMESTER 1-8 Credits

Core 40, AHD & THD elective course

- Promote lifetime sports and training; Improve fitness and sports performance; Enhance muscular strength and power; Learn complex training skills and be able to apply them to a personalized training program; Participate daily in advanced training activities that improve endurance, flexibility, and body composition
- Interact socially in an intense working environment

Note: Students who do not participate in 5 consecutive weeks of the course will be removed from the class with a WD.

HEALTH AND WELLNESS EDUCATION

Course Number: 3506 Grades 9-10

ONE SEMESTER 1 Credit

Fulfills Core 40, AHD & THD Health & Wellness requirement

- Advocate to become competent lifetime health consumers by developing knowledge, concepts, skills, behaviors and attitudes related to student health; Explore major content areas as expressed in the Indiana Health Education Standards Guide
- Attain information that will assist students in understanding that health is a lifetime commitment by analyzing individual risk factors and health decisions that promote health and prevent disease; Increase knowledge on personal and consumer health, growth and development, community and environmental health, alcohol, tobacco and other drugs, mental and emotional health, exercise and nutrition

Note: Health should be completed by the end of the sophomore year.

ALTERNATIVE PE SPORT

Course Number: 3542 or 3544 Grades 9 – 12

ONE SEMESTER 1 or 2 Credits

Core 40, AHD & THD elective course

- Must get a coaches signature stating the athlete completed the season in good standing.
- Form must be turned into the guidance office two weeks after completion of season.

Note: *Students may ONLY substitute participation in an IHSAA sanctioned sport and complete required paperwork to earn a credit in Physical Education I or II. Only one credit can be earned for one sport.*

ELECTIVE PHYSICAL EDUCATION: TEAM SPORTS

Prerequisite: *Must have earned a credit or enrolled in PE I or PE II.*

Course Number: 3560 Grades 9 – 12

ONE SEMESTER 1 Credit

Core 40, AHD & THD elective course

- Students will be exposed to a variety of common and uncommon team sports as well as a variety of tournament formats (Pool Play, Round Robin, Single Elimination, Double Elimination, Ladder, etc); Students will also learn about officiating in the sports covered in the course; Students will be exposed to a variety of activities similar to those covered in required Physical Education, but at a more in-depth level.

Note: Students who do not participate in 5 consecutive weeks of the course will be removed from the class with a WD.

SCIENCE EDUCATION

SENIOR AND JUNIOR LEVEL COURSES	CREDITS	PREREQUISITES
AP Environmental	2	*Biology I and ICP*
Physics	2	*Pre-Calculus* (or concurrent enrollment)
AP Biology (ACP)	2	*Biology I and Chemistry; Anatomy recommended*
AP Chemistry	2	*Chemistry I* and *Algebra II*
Chemistry I Honors	2	*Enrollment or earned credits in Algebra II*
Integrated Chemistry-Physics	2	*None*
Chemistry	2	*Algebra II* (or concurrent enrollment)
Anatomy & Physiology	2	*Biology I*
Environmental Science	2	*Biology I*
Science Research / Independent Study	2	*Teacher approval needed*
Biology I	2	None
Biotech Regulatory Affairs	2	Does not count as a required science class
Biotech Manufacturing	2	Does not count as a required science class
Principles of Biotechnology	2	Does not count as a required science class
SOPHOMORE LEVEL COURSES	**CREDITS**	**PREREQUISITES**
Chemistry I Honors	2	*Enrollment or earned credits in Algebra II*
Integrated Chemistry-Physics	2	*None*
Anatomy & Physiology	2	*Biology I*
Environmental Science	2	*Biology I*
Biology I	2	None
FRESHMAN LEVEL COURSES	**CREDITS**	**PREREQUISITES**
Biology Honors	2	*Teacher Recommendation*
Integrated Chemistry-Physics	2	None

SCIENCE SEQUENCE

GRADE	SCIENCE COURSE	SCIENCE COURSE
8	LIFE SCIENCE	-
9	BIOLOGY HONORS	ICP
10	CHEMISTRY HONORS	BIOLOGY
11	AP SCIENCE/PHYSICS	SCIENCE COURSE
12	AP SCIENCE/PHYSICS	SCIENCE COURSE

BIOLOGY I or BIOLOGY I HONORS

Course Numbers: 3024A/B Grades Biology 10 – 12 / Pre AP Biology 1 9-10
FULL YEAR 2 Credits
Core 40, THD & AHD Science course

- Gain an understanding of the history of the development of biological knowledge; Comprehend with biological questions and problems related to personal needs and social issues; Focus on cellular structure and chemistry, ecology, genetics (molecular basis of heredity), cellular reproduction, and evolution
- Follow Indiana State Standards for Biology I

Note: At the conclusion of this course, students are required to take the ILEARN SCIENCE test.
Note: The Biology 1 Honors is a grade-weighted course.

AP BIOLOGY (ACP)

Prerequisite: Students must have a 2.7 GPA to qualify for the ACP program through IU. A cost of only $75 or free for students who qualify financially. A student would not have to score a 3 or higher on the AP test to get college credit through the ACP program.

Course Numbers: 3020A/B Grades 11 – 12
FULL YEAR 2 Credits
Core 40, THD & AHD Science course

- Gain an understanding of the process of evolution drives the diversity and unity of life, Biological systems utilize free energy and molecular building blocks to grow, to reproduce and to maintain dynamic homeostasis, Living systems store, retrieve, transmit and respond to information essential to life processes, Biological systems interact, and these systems and their interactions possess complex properties.

Note: Offered school year 23-24. This is a grade-weighted course; Students are expected to take the *AP Biology* exam in May.

AP ENVIRONMENTAL SCIENCE

Prerequisite: Biology I
Course Number: 3012A/B Grades 11 – 12
FULL YEAR 2 Credit
Core 40, THD & AHD Science course

- Enhance understanding of the relationships among living things; Focus on earth's diverse ecosystems, population growth and regulation, and community interaction; Investigate environmental problems and working toward solutions; Explore themes with hands-on labs and activities

Note: This is a weighted class. Students are expected to take the AP Environmental Science exam in May.

ENVIRONMENTAL SCIENCE

Prerequisite: Biology I
Course Numbers: 3010A/B Grades 10– 12
FULL YEAR 2 Credits
Core 40, THD & AHD Science course

- Integrates biology, earth science, chemistry, and other disciplines; In-depth scientific studies of ecosystems, population dynamics, resource management, and environmental consequences of natural and anthropogenic processes; Students acquire the essential tools for understanding the complexities of national and global environmental systems.

ANATOMY & PHYSIOLOGY (ANAT 101 IVY TECH) DC

Prerequisite: Biology I-Students must have a 2.7 GPA & one of the following math requirements: 24.5 PSAT, 18 ACT, 500 SAT
Course Numbers: 5276A/B Grades 10 – 12
FULL YEAR 2 Credits
Core 40, THD & AHD Science course

- Focus placed on concepts related to the medical or veterinary science fields; Introduces students to the cell, which is the basic structural and functional united of all organisms, and covers tissues, integument, skeleton, muscular and nervous systems as an integrated unit; Concentrate on structures and functions of the human body and system interactions.
- Emphasize dissecting techniques and protocols; Students will understand the structure, organization and function of the various components of the healthy body in order to apply this knowledge in all health related fields.

Note: Students must meet the Ivy Tech requirements to receive college dual credit.

INTEGRATED CHEMISTRY-PHYSICS

Course Numbers: 3108A/B Grades 9 – 12
FULL YEAR 2 Credits
Core 40, THD & AHD Science course

- Explore fundamentals of chemistry and physics in a lab-based course; Focus on structure and properties of matter, chemical reactions, forces, motion, and the interactions between energy and matter; Present ideas both conceptually and mathematically; Emphasize lab work and problem solving
- Follow Indiana State Standards for Integrated Chemistry-Physics

CHEMISTRY or CHEMISTRY I HONORS

Prerequisite: Algebra II or concurrent enrollment

Course Numbers: 3064A/B Grades Chemistry 11 – 12, Pre AP Chem 10-12
FULL YEAR 2 Credits
Core 40, THD & AHD Science course

- Study the structure of matter and the mechanisms of its interaction in a lab-based course; Focus on classification of matter and its changes, atomic structure, history and structure of the periodic table, molecular structure and bonding, inorganic nomenclature and chemical equations, properties of solids, liquids and gases, the gas laws, solutions and acid-base theories; Reinforce course content with lab procedures
- Emphasize laboratory safety, lab technique and problem solving; Follow Indiana State Standards for Chemistry I

Note: The Pre AP Chemistry is a grade-weighted course; a scientific calculator is required; Students must pass the first semester in order to continue on to the second semester of this course.

AP CHEMISTRY

Prerequisite: Chemistry I AND Pre-Calculus (or concurrent enrollment)

Course Numbers: 3060A/B Grades 11 – 12
FULL YEAR 2 Credits
Core 40, THD & AHD Science course

- Review and expand upon topics introduced in Chemistry I Honors; Follow the College Board entrance examination and laboratory investigation guidelines; Introduce new topics, including thermodynamics, electrochemistry, reaction kinetics, equilibrium systems, and organic nomenclature; Complete lab work to reinforce course content
- Prepare for and take the AP Chemistry exam, and may qualify, by test, for college credit and/or advanced placement in college

Note: Offered school year 24-25. This is a grade-weighted course; a scientific calculator is required. Students are expected to take the *AP Chemistry* exam in May.

PHYSICS I

Prerequisite: Pre-Calculus (or concurrent enrollment)

Course Numbers: 3084A/B Grades 10 – 12
FULL YEAR 2 Credits
Core 40, THD & AHD Science course

- Explore the topics of mechanics, wave motion, heat, light, electricity, magnetism, electromagnetism, and atomic and nuclear physics; Conduct formal and informal laboratory investigations to study the fundamental concepts and principles concerning matter and energy; Study the history of physics and its role in the birth of technology
- Cope with physics questions related to social issues; Complete quarterly projects demonstrating deeper understanding of physics concepts

Note: This is a grade-weighted course***. Students must pass the first semester in order to continue on to the second semester of this course.

SCIENCE RESEARCH INDEPENDENT STUDY

Prerequisite: Science college major and teacher approval required

Course Numbers: 3008A/B Grades 12
ONE or TWO SEMESTER(S) 1-2 Credits
Core 40, THD & AHD Science course

- Investigate a science topic of choice with teacher approval
- Conduct formal and informal investigations to study the fundamental concepts and principles concerning topic choice and perform research

Note: This course is only for students who have the desire, responsibility and determination to work as an independent study.

SCIENCE, TECHNOLOGY, ENGINEERING & MATH - BIOTECHNOLOGY		
PRINCIPLES CLASS	CONCENTRATOR "A" CLASS	CONCENTRATOR "B" CLASS
Principles of Technology	Biotech Manufacturing	Biotech Regulatory Affairs

PRINCIPLES OF BIOTECHNOLOGY/BIOT100 Ivy Tech (DC)

Course Numbers: 7340 A/B Grades 11-12
FULL YEAR 2 Credits

- Presents an in-depth overview of biotechnology emphasizing basic molecular techniques of manipulating DNA;
- Processes involved in protein purification and analysis; microbial, plant, aquatic, medical and animal biotechnology; regulations and ethics of the biotechnology industry.

Note: Does not count as a required science elective.

BIOTECH MANUFACTURING/BIOT 102/103 Ivy Tech (DC)

Prerequisite: Principles of Biotechnology (or concurrent enrollment)

Course Numbers: 7341A/B Grades 11- 12
FULL YEAR 2 Credits

- Introduces students to the basics of design and manufacturing within the biotechnology industry, gaining an understanding of the work environment.
- Students will learn a brief history of the Food and Drug Administration, then will learn how the practices set forth by the FDA control the work environment and the behavior of workers in the field.

Note: Does not count as a required science elective.

BIOTECH REGULATORY AFFAIRS/BIOT 105 Ivy Tech (DC)

Prerequisite: Principles of Biotechnology (or concurrent enrollment)

Course Numbers: 7342A/B Grades 11 – 12
FULL YEAR 2 Credits

- Provides an entry level introduction to the laws and regulations that govern the development, marketing and commercial distribution of drugs, biological and medical device products and how they relate to the pharmaceutical, biotechnology and medical device industry.
- Course is intended to provide individuals with a greater understanding of regulatory affairs, specifically providing an understanding of how their actions are controlled by regulations and how to interact with FDA or global agencies.

Note: Does not count as a required science elective.
Note: Successful completion of the Biotechnology Pathway could lead to direct employment.

SOCIAL STUDIES EDUCATION

SENIOR LEVEL COURSES	CREDITS	PREREQUISITES
AP Microeconomics	1	Teacher recommendation and PSAT AP Potential
Economics	1	None
Economic Fundamentals/ECON101 IVY	1	*Qualifying requirements for Ivy Tech*
AP U.S. Government & Politics	1	Teacher recommendation and PSAT AP Potential
U.S. Government	1	None
Survey of American Government and Politics/POLS 101 IVY	1	*Qualifying requirements for Ivy Tech*
Introduction to Psychology/PSYC101 IVY	1	*Qualifying requirements for Ivy Tech*
Sociology	1	None
Ethnic Studies	1	None
Indiana Studies	1	None
JUNIOR LEVEL COURSES	**CREDITS**	**PREREQUISITES**

Sociology	1	None
US History	2	None
AP US History	2	Teacher recommendation and "A" in World History Honors
Ethnic Studies	1	None
Indiana Studies	1	None
SOPHOMORE LEVEL COURSES	**CREDITS**	**PREREQUISITES**
Sociology	1	None
AP US History	2	Teacher recommendation and "A" in World History Honors
Ethnic Studies	1	None
Indiana Studies	1	None
FRESHMAN LEVEL COURSES	**CREDITS**	**PREREQUISITES**
World History	2	None
World History Honors	2	Teacher recommendation and ISTEP scores
Ethnic Studies	1	None
Indiana Studies	1	None

ETHNIC STUDIES

Course Number: 1516 Grades 9 – 12
ONE SEMESTER 1 Credit
Core 40, AHD & THD Social Studies course

- Provides opportunities to broaden students' perspectives concerning lifestyles and cultural patterns of ethnic groups in the United States.
- Focus on a particular ethnic group or groups, or use a comparative approach to the study of patterns of cultural development, immigration, and assimilation

INDIANA STUDIES

Course Number: 1518 Grades 9 – 12
ONE SEMESTER 1 Credit
Core 40, AHD & THD Social Studies course

- Integrated course that compares and contrasts state and national developments in the areas of politics, economics, history, and culture; The study of state and national constitutions from a historical perspective and as a current foundation of government
- Examination of individual leaders and their roles in a democratic society will be included and student will examine the participation of citizens in the political process.

WORLD HISTORY & CIVILIZATION

Course Numbers: 1548A/B Grade 9
FULL YEAR 2 Credits
Core 40, AHD & THD Social Studies course

- Analyze patterns of culture, emphasizing both the diversity and commonality of human experience and behavior; Relate events from the history of Europe to modern European civilizations; Examine the modern western world as a product of its history by studying Ancient Greece, Ancient Rome, the Middle Ages, the Renaissance and the Age of Discovery, the Age of Enlightenment, the Industrial Revolution, and Europe in the 21st Century
- Trace the development of the major cultures, political forces, religions, and social structures of non-western civilizations; Emphasize the major political and cultural movements of the last 1,000 years in Africa, the Middle East, China, Japan, Southeast Asia, and India

WORLD HISTORY HONORS

Prerequisite: Teacher recommendation OR ILEARN scores

Course Number: 1548A/B Grade 9
FULL YEAR 2 Credits
Core 40, AHD & THD Social Studies course

- Analyze patterns of culture, emphasizing both the diversity and commonality of human experience and behavior; Relate events from the history of Europe to modern European civilizations; Examine the modern western world as a

product of its history by studying Ancient Greece, Ancient Rome, the Middle Ages, the Renaissance and the Age of Discovery, the Age of Enlightenment, the Industrial Revolution, and Europe in the 21st Century
- Trace the development of the major cultures, political forces, religions, and social structures of non-western civilizations; Emphasize the major political and cultural movements of the last 1,000 years in Africa, the Middle East, China, Japan, Southeast Asia, and India; Learn and practice thinking skills and methods (analyzing primary and secondary sources, making historical comparisons, chronological reasoning and argumentation employed by historians when they study the past.

Note: This is a grade-weighted course.

US HISTORY

Course Numbers: 1542A/B Grades 11
FULL YEAR 2 Credits
Core 40, AHD & THD Social Studies course

First Semester:
- Consider the growth of American society during the Colonial War Era, the War for Independence, the development of the Constitution and end with the Civil War.

Second Semester:
- Explain the causes and effects of the Great Depression, World War II, Cold War, Civil Rights Movement, Vietnam and Presidents.

AP U.S. HISTORY

Prerequisite: Teacher recommendation or "A" in World History Honors

Course Number: 1574A/B Grade 10-11
FULL YEAR 2 Credits
Core 40, AHD & THD Social Studies course
- Complete in-depth examination of the U.S. Constitution; Understand political, economic, diplomatic, intellectual, and cultural development of modern America from 1865 to the present
- Apply current events to the time period being studied to make connections; Participate daily as an integral part of the course

Note: There is a summer assignment that must be done prior to class starting in the fall. This is a grade-weighted course; Students are expected to take the AP U.S. History exam in May at family cost.

SOCIOLOGY

Course Number: 1534 Grades 10 – 12
ONE SEMESTER 1 Credit
Core 40, AHD & THD Social Studies course
- Learn the three major theoretical philosophies of Sociology and understand different topics from each perspective; Participate in simulations to develop sociological imagination; Analyze and interpret readings, images, and cases in sociology
- Research and debate issues such as the family unit, religion, political institutions, race, sexual orientation, gender, globalization, etc; Utilize sociological concepts and theories to make connections to current events/problems

Note: Average to above average reading ability is needed for this course.

INTRODUCTION TO PSYCHOLOGY/PSYC101 IVY (DC)

Prerequisite: Qualifying requirements for Ivy Tech

Course Number: 1574 Grade 12
ONE SEMESTER 1 Credit
Core 40, AHD & THD Social Studies course
- Development looks at all the changes through one's life; physical, cognitive, as well as emotional, social and moral development. Cognition focuses on learning, memory, information processing, and language development.
- Personality and Assessment looks at the approaches used to explain one's personality and the assessment tools used.
- Psychological Thinking explores how to think like a psychologist and expand critical thinking skills needed in the day-to-day life of a psychologist.

Note: Must purchase textbook; Upon successful completion of this course, students will earn 3 Ivy Tech college credits and I high school credit

U.S. GOVERNMENT

Course Number: 1540 Grade 12
ONE SEMESTER 1 Credit
Core 40, AHD & THD Social Studies course

- Study the basic structure of the American federal government; Study the rights and responsibilities of citizens in our democracy; Review the Constitution and study the interrelationship of our three branches; Explore the importance of the Legislative, Executive, and Judicial Branches
- Study the Indiana Criminal Code; Compare and contrast the roles of Local, State, and Federal government

SURVEY OF AMERICAN GOVERNMENT & POLITICS/POLS 101 IVY (DC)

Prerequisite: Qualifying requirements for Ivy Tech

Course Number: 1550 Grade 12
ONE SEMESTER 1 Credit
Core 40, AHD & THD Social Studies course
Fulfills the *Government* requirement for graduation

- Study the basic structure of the American federal government; Study the rights and responsibilities of citizens in our democracy; Review the Constitution and study the interrelationship of our three branches
- Explore the importance of the Legislative, Executive, and Judicial Branches; Compare and contrast the roles of Local, State, and Federal government

Note: Note: Must purchase textbook; upon successful completion of this course, students will earn 3 Ivy Tech college credits and 1 high school credit.

AP UNITED STATES GOVERNMENT AND POLITICS

Prerequisite: Teacher recommendation and AP Potential from PSAT

Course Number: 1560 Grade 12
ONE SEMESTER 1 Credit
Core 40, AHD & THD Social Studies course

- Prepare for the AP exam over US government and politics; Demonstrate mastery of important facts, concepts, and terminology pertaining to US government and politics; Understand typical patterns of political processes and behaviors
- Analyze and interpret basic data relevant to US government and politics

Note: This is a grade-weighted course. Students are expected to take the *AP U.S. Government and Politics* exam in May at family cost.

ECONOMICS

Course Number: 1514 Grade 12
ONE SEMESTER 1 Credit
Core 40, AHD & THD Social Studies course

- Survey course of economic issues of importance, decision making, microeconomics, macroeconomics, and the global economy; Study decision making, including trade-offs, opportunity costs, and economic system analysis
- Cover microeconomics, including supply and demand, business formation and competition studies with an emphasis on how it affects students' lives; Study global issues, including trade, exchange rates, protectionism and the global organizations that promote economic stability around the world

AP MICROECONOMICS

Prerequisite: Teacher recommendation and AP Potential from PSAT

Course Number: 1566 Grade 12
ONE SEMESTER 1 Credit
Core 40, AHD & THD Social Studies course

- Emphasize market structure; Use graphical analysis to be familiar with how economic markets work; Analyze factors that promote or hinder the efficient flow of markets; Grasp how the government's role in the economy is vital and important; Acquire knowledge of how efficiency is achieved through decision making and self interest
- Demonstrate a knowledge of the complexities of supply and demand curves

Note: This is a grade-weighted course; Students are required to take the *AP Microeconomics* exam in May at family cost .

ECONOMIC FUNDAMENTALS/ECON 101 IVY (DC)

Prerequisite: Qualifying requirements for Ivy Tech

Course Number: 1550 Grade 12
ONE SEMESTER 1 Credit

Core 40, AHD & THD Social Studies course
Fulfills the Economics requirement for graduation

- Survey course of economic issues of importance, decision making, microeconomics, macroeconomics, and the global economy; Study decision making, including trade-offs, opportunity costs, and economic system analysis
- Cover microeconomics, including supply and demand, business formation and competition studies with an emphasis on how it affects students' lives; Study global issues, including trade, exchange rates, protectionism and the global organizations that promote economic stability around the world

Note: Must purchase textbook; Upon successful completion of this course, students will earn 3 Ivy Tech college credits and I high school credit.

AGRICULTURAL EDUCATION

SENIOR & JUNIOR LEVEL COURSES	CREDITS	PREREQUISITES
Agriculture Fabrication and Design	2	*Principles of Agriculture*
Agriculture Power, Structure, Tech	2	*Principles of Agriculture*
Supervised Agricultural Experience	2	*Principles of Agriculture*
Principles of Agriculture	2	None
Horticulture Science	2	*Principles of Agriculture*
Greenhouse and Soilless Production	2	*Principles of Agriculture*
SOPHOMORE LEVEL COURSES	**CREDITS**	**PREREQUISITES**
Agriculture Power, Structure, Tech	2	*Principles of Agriculture*
Principles of Agriculture	2	None
Agriculture Fabrication and Design	2	*Principles of Agriculture*
Horticulture Science	2	*Principles of Agriculture*
Greenhouse and Soilless Production	2	*Principles of Agriculture*
FRESHMAN LEVEL COURSES	**CREDITS**	**PREREQUISITES**
Principles of Agriculture	2	None

PRINCIPLES OF AGRICULTURE, FOOD, AND NATURAL RESOURCES/AGRI 101 IVY (DC)

Course Number: 7117 Grade 9-12
FULL YEAR 2 Credits
Core 40, AHD & THD course

- Course is to provide students with an introduction to the fundamentals of agricultural science and business
- Topics to be covered include: animal science, plant and soil science, food science, horticultural science, agricultural business management, landscape management, natural resources, agriculture power, structure and technology, leadership development, supervised agricultural experience and career opportunities in the area of agriculture, food and natural resources.

Note: Students will earn 3 Ivy Tech college credits upon successful completion of this course.

AGRICULTURE POWER, STRUCTURE AND TECHNOLOGY /AGRI 213 IVY (DC)

Prerequisite: Principles of Agriculture

Course Number: 5088 Grade 10-12
FULL YEAR 2 Credits
Core 40, AHD & THD course

- Students develop an understanding of basic principles of selection, operation, maintenance and management of agricultural equipment in concert while incorporating technology
- Topics covered include: safety, electricity, plumbing, concrete, carpentry, metal technology, engines, emerging technologies, leadership development, supervised agricultural experience and career opportunities in the area of agriculture power, structure and technology

Note: Offered in the school year 23-24. Students will earn 3 Ivy Tech college credits upon successful completion of this course.

AGRICULTURE STRUCTURES FABRICATION AND DESIGN

Prerequisite: Principles of Agriculture

Course Number: 7112 Grade 10-12

FULL YEAR 2 Credits

Core 40, AHD & THD course

- This course will allow students to develop skills in welding and metalworking, construction, fabrication, machine components and design while incorporating the engineering design process.
- Students will also cover safety topics for each area while demonstrating appropriate health and safety standards.

Note: Offered in the school year 24-25. Students will earn 3 Ivy Tech college credits upon successful completion of this course.

HORTICULTURE SCIENCE /AGRI 116 IVY (DC)

Prerequisite: Principles of Agriculture

Course Number: 5132 Grade 10-12

FULL YEAR 2 Credits

- Includes hands-on activities that encourage students to investigate areas of horticulture as it relates to the biology and technology involved in the production, processing, and marketing of horticultural plants and products.
- Students are introduced to the following areas of horticulture science: reproduction and propagation of plants, plant growth, growth-media, management practices for field and greenhouse production, marketing concepts, production of plants of local interest, greenhouse management, floral design, and pest management.

Note: Offered in the school year 23-24. Students will earn 3 Ivy Tech college credits upon successful completion of this course.

GREENHOUSE and SOILLESS PRODUCTION /AGRI 129 IVY (DC)

Prerequisite: Principles of Agriculture

Course Number: 7114 Grade 10-12

FULL YEAR 2 Credits

- Includes hands- provides an overview of structural designs and uses of enclosed structures (greenhouses) to grow various plants and food. The course will focus on discussing different types of enclosed structures, management systems, and growing systems used to produce plants and food.

Note: Offered in the school year 24-25. Students will earn 3 Ivy Tech college credits upon successful completion of this course.

SUPERVISED AGRICULTURAL EXPERIENCE

Prerequisite: Teacher approval

Course Number: 5228A/B Grade 10-12

FULL YEAR 2 Credits

Core 40, AHD & THD ELECTIVE

- Students will experience and apply what is learned in the classroom, laboratory and training site to real-life situations with a standards-based plan for learning.
- Students must provide their own transportation to the off campus experience.
- Students work closely with their agriculture teacher(s), parents and/or employers to get the most out of their SAE program

Note: Offered in the summer or as an independent study available through teacher approval. Total of 8 credits can be earned.

WORLD LANGUAGE EDUCATION

completion of a 4-year language sequence may lead to advanced placement in college and may fulfill all or part of a college's World Languages requirement, which could result in considerable savings in tuition. For those students seeking employment opportunities after high school, proficiency in a world language is a valuable asset to many employers, making you more marketable. At least two years of a foreign language is suggested to obtain admission to a four year college.

Satisfactory completion of the first semester language course is required for all second semester language courses.
A grade of at least "C-" is highly recommended to continue to the next level of study in World Language.

Level I *World Languages*

Course Numbers	**FRENCH I**	**SPANISH I**

	2020A/B	2120A/B

Grades 9 – 12 FULL YEAR 2 Credits

Core 40, AHD & THD elective and directed elective course; Fulfills AHD World Language requirement

- Engage in the language through speaking, listening, reading, and writing
- Learn basic vocabulary in thematic units such as greetings, courtesy expressions, weather, family, shopping, restaurant, etc.
- Understand and respond to classroom requests, commands, and instructions
- Ask and state information about self and others, including physical description, personality, feelings, and likes and dislikes
- Learn basic grammar in present tense, including regular and irregular verbs
- Learn about other cultures through lessons on geography, celebrations, basic routine practices, etc.

Note: A grade of at least "C-" is highly recommended to continue to the next level of study in a World Language.

Level II *World Languages*

Course Numbers	**FRENCH II**	**SPANISH II**
	2022A/B	2122A/B

Prerequisite: Successful completion of Level I World Language and recommended C or higher

Grades 9 – 12 FULL YEAR 2 Credits

Core 40, AHD & THD elective and directed elective course; Fulfills AHD World Language requirement

- Improve in speaking, listening, reading, and writing skills
- Review first year vocabulary and learn new vocabulary in thematic units such as daily routines, healthy lifestyles, travel, cuisine, etc.
- Understand and respond accurately to classroom requests, commands, and instructions
- Ask and state information about self and others such as daily routines
- Review first year grammar and learn new tenses such as the past, imperfect, and imperative tenses and other grammatical structures

Note: A grade of at least "C-" is highly recommended to continue to the next level of study in a World Language.

Level III *World Languages*

Course Numbers	**FRENCH III**	**SPANISH III**
	2024A/B	2124A/B

Prerequisite: Successful completion of Level II World Language and recommended C or higher

Grades 10 – 12 FULL YEAR 2 Credits

Core 40, AHD & THD elective and directed elective course; Fulfills AHD World Language requirement

- Communicate primarily in the target language; participation is an integral part of the course
- Review previously learned grammar and vocabulary briefly, and learn new vocabulary based on thematic units such as the environment, community, travel and professions
- Learn and practice new verb tenses such as future, conditional, imperative, and perfect tenses
- Participate in more extensive reading, writing, speaking and listening activities

Note: A grade of at least "C-" is highly recommended to continue to the next level of study in a World Language.

Level IV *World Languages*

Course Numbers	**FRENCH IV**	**SPANISH IV**
	2026A/B	2126A/B

Prerequisite: Successful completion of Level III World Language and recommended C or higher

Grade 11-12 FULL YEAR 2 Credits

Core 40, AHD & THD elective and directed elective course; Fulfills AHD World Language requirement

- Communicate almost exclusively in the target language through speaking, reading, writing and listening
- Review previously learned grammar and vocabulary, taking a more in-depth view at many grammatical concepts
- Study idiomatic expressions, along with other thematic vocabulary
- Read, understand and discuss short stories and novels in the target language
- Learn about and discuss relevant cultural topics such as history, art and geography

Note: A grade of at least "C-" is highly recommended to continue to the next level of study in a World Language.

Level V World Language

Course Numbers	**FRENCH V**	**SPANISH V**
	2028A/B	2128A/B

Prerequisite: Successful completion of Level IV World Language and recommended C or higher

Grade 12 FULL YEAR 2 Credits

Core 40, AHD & THD elective and directed elective course; Fulfills AHD World Language requirement

- Students can interact and exchange information in culturally and socially authentic and/or simulated situations to demonstrate integration of language skills with understanding of Spanish-speaking culture.
- This course emphasizes the use of appropriate formats, varied vocabulary and complex language structures within student communication, both oral and written, as well as the opportunity to produce and present creative material using the language.

Note: Level 5 World Language classes end with the Class of 2025.

AREA 31 CAREER PROGRAMS

Career and Technical Education (CTE) Programs prepare students for careers and/or further study at a post-secondary institution. Most programs are offered at the Area 31 Career Center at Ben Davis High School. Opportunities exist for students of all abilities in a variety of programs. Area 31 does not discriminate on the basis of race, color, gender, national origin, religion, creed, disability, sexual orientation or gender identity. Local employers provide curriculum direction and employment, including work based learning experiences. Most career and technical education programs enable a student to receive college credit. Some programs offer state approved industry certifications that can be used to meet technical honors diploma requirements. Other departments including Business, Communications, Science, and Engineering and Technology Education have course offerings that will help students choose a career pathway.

NOTE: Before enrolling in any Career and Technical Education program, the student must complete an enrollment form and be accepted into Area 31.

Course offerings include:

- Advanced Manufacturing: Industrial Maintenance I & II
- Automotive Service Technology I & II**
- Aviation Flight Technology**
- Aviation Maintenance Technology I**
- Collision Repair Technology I & II**
- Construction Trades I & II**
- Cosmetology I & II**
- Criminal Justice I**
- Culinary Arts I (Culinary Arts and Hospitality Management)**
- Culinary Arts II (Advance Culinary Arts)**
- Dental Careers
- Digital Integrated Manufacturing I & II**
- Early Childhood Education I**
- Early Childhood Education II (WBL)**
- Emergency Medical Services **
- Fire and Rescue I**
- Graphic Imaging Technology I & II**
- Health Science Education I**
- Health Science Education II (CNA WBL)
- Heating and Air (HVAC I & II)**
- Horticulture Science I & II**
- Medical Assisting**
- Networking & Cyber Security I & II**
- Pharmacy Tech I**
- Pharmacy Tech II (WBL)**
- Precision Machining I & II**
- Radio Broadcasting I & II**
- Supply Chain Management**
- Television Broadcasting I & II**
- Tractor/Trailer Operation **
- Welding Technology**

**College credit available; dual credits offered may change to align with NLPS (Next Level Programs of Study)

Note: Indiana college credit is generally transferable from one Indiana educational institution to another; however, students and parents should research the transfer themselves just to be sure. One educational institution cannot make a transfer call for another. Students and parents should contact an advisor at the institution where they want to attend and ask if the credit being offered will count toward the degree of their choice.

For specific information for each program, see the Area 31 Curriculum Handbook.

APPENDIX A

CHS Dual Credit

CHS Course Title	Post-Secondary Institution	College Course Number	College Credits	Cost to student
PLTW: Intro to Engineering Design	Ivy Tech	DESN 102	3	$0
PLTW: Principles of Engineering	Ivy Tech	DESN 104	3	$0
PLTW: Civil Engineering & Architecture	Ivy Tech	DESN 105	3	$0
Intro to Advanced Manufacturing	Ivy Tech	MPRO 100	3	$0
Intro to Advanced Manufacturing	Ivy Tech	MPRO 106	3	$0
Introduction to Psychology	Ivy Tech	PSYC 101	3	$0
Economic Fundamentals	Ivy Tech	ECON 101	3	$0
American Government & Politics	Ivy Tech	POLS 101	3	$0
English Exposition & Composition	Ivy Tech	ENGL 111	3	$0
English Exposition and Persuasion	Ivy Tech	ENGL 206	3	$0
Fundamentals of Public Speaking	Ivy Tech	COMM 101	3	$0
College Algebra	Ivy Tech	MATH 136	3	$0
College Trigonometry	Ivy Tech	MATH 137	3	$0
Principles of Agriculture	Ivy Tech	AGRI 101	3	$0
Ag Power/Structure	Ivy Tech	AGRI 213	3	$0
Horticulture Science	Ivy Tech	AGRI 116	3	$0
Greenhouse & Soilless Production	Ivy Tech	AGRI 129	3	$0
Anatomy	Ivy Tech	ANAT 101	3	$0
AP Biology	IU	BIOL-L	3	$75
Principles of Biotechnology	Ivy Tech	BIOT 100	3	$0
Biotech Manufacturing	Ivy Tech	BIOT 102/103	6	$0
Biotech Regulatory Affairs	Ivy Tech	BIOT 104	3	$0

NOTE: Students are responsible for purchasing college textbooks. Also, Ivy Tech transcripts must be obtained by the student through their Ivy Tech portal, MyIvy.

CHS AP Credit

ENGLISH AP Language AP Literature **MATH** AP Calculus BC AP Calculus AB	**SCIENCE** AP Chemistry AP Biology AP Environmental Science **SOCIAL STUDIES** AP US History AP US Government & Politics AP Microeconomics

A new law, PL 91, requires all Indiana public colleges and universities (including all 2-year and 4-year institutions and accompanying satellites) to award college credits for Indiana secondary school students that earn a score of 3 or higher on College Board's AP exam(s). Indiana public colleges and universities may require a score higher than 3 to award credits for a course that is a requirement for a student's major; if a university chooses to do so, it must still award a student

elective credits that count toward his/her overall degree requirements to graduate from college. Students should visit www.transferIN.net to see how AP exam scores can transfer into college credits at Indiana colleges and universities.

APPENDIX B

SAT/ACT Test s

Cascade High School ID is **150555**

SAT

Register online at www.sat.collegeboard.org
SAT Customer Service: 866-756-7346
SAT Registration and Test Fee = $55

ACT

Register online at www.actstudent.org
ACT online registration help: 319-337-1270
ACT Registration and Test Fee = $60

Both tests have a writing portion that may be purchased at an additional cost. Purdue University, Indiana University and the NCAA require that SAT & ACT scores be sent directly from CollegeBoard or ACT testing agencies.

*****Students who receive lunch/books assistance may qualify for a fee waiver. See your school counselor.*****

APPENDIX C

A COLLEGE & CAREER PLANNING RESOURCE FOR STUDENTS AND PARENTS

Cascade High School utilizes Xello to assist students and parents with the management of the college and career planning process. We encourage students and parents to visit Xello to access links to valuable college and career websites.