Curriculum

Jefferson High School
2024-2025

Jefferson High School
1801 South 18th St
Lafayette, IN 47905

Table of Contents

ABBREVIATIONS USED IN COURSE TITLES:

A - Academic
AP – Advanced Placement
CP – College Prep
H – Honors
OTP – Occupational Tech Prep

This booklet contains a brief description of curriculum offered at Jefferson High School. It has been designed to acquaint you and your parents with the courses offered in all departments. As you prepare to enroll, use this booklet to check graduation requirements, to check the prerequisites for courses you are interested in taking, and to plan your program of study. Your course selections will be finalized with your school counselor. **Please note that all courses listed throughout the Handbook are available for the 2024-2025 school year as of 10/16/23, but are subject to change.**

GUIDANCE

Students may meet with their counselor before or after school or during Study Hall. Students should send an email to their counselor requesting a meeting. Visit the Jefferson High School Website at lafayettjeff.org > departments > guidance > guidance staff directory.

Students with last name:

A-Com	Ms. Bruce	gclark@lsc.k12.in.us
Con-Gut	Mr. Crum	tcrum@lsc.k12.in.us
Guu-Marq	**Temporarily distributed through all JHS counselors**	
Marr-Ref	Mrs. Johnson	kjohnson@lsc.k12.in.us
Reg-Wag	Mrs. Myers	kjmyers@lsc.k12.in.us
Wah-Z & ENL	Mrs. Valle	avalle@lsc.k12.in.us
Oakland Academy:		
	Mrs. Yeaman	myeaman@lsc.k12.in.us

1. ACADEMIC COUNSELING
Counselors keep a detailed record of every student's academic progress toward graduation. Counselors give assistance in course selection and planning toward a student's career and/or educational goals. Each student will have at least one conference with his/her counselor per year to review his/her educational plan and select classes.

2. CAREER/TECHNICAL EDUCATION COUNSELING
Counselors assist students in college and career/technical education school selection; choosing college majors; disseminating financial aid information; and processing applications for colleges, career/technical education schools, and scholarship programs.

3. PERSONAL COUNSELING
Counselors are available to help students with their personal and social needs. They are qualified to make referrals to different community service providers and to recommend support groups at the high school.

The counselors at Jefferson High School work as a team and will assist any student as the need arises. Counselors encourage parents to be involved with their students' education. Counselors are available to speak with parents during normal school hours and/or by special appointment. Parents are asked to call the Guidance Office (student's counselor) for an appointment.

GRADUATION REQUIREMENTS (CLASS OF 2023 AND BEYOND)

Beginning with the graduating class of 2023, Indiana high school students must satisfy ***all three*** of the following Graduation Requirements:

1. Earn one (1) of the following Indiana High school Diploma designation options:
    - Core 40 designation;
    - Academic Honors designation;
    - Technical Honors designation;
    - General designation (Note: students must opt-out of the Core 40 Diploma designation upon parent request in order to earn the General designation).
2. Learn and Demonstrate one (1) of the following Employability Skills options:
    - Completion of a project-based learning experience;
    - Completion of a service-based learning experience;
    - Completion of a work-based learning experience.

AND

3. Demonstrate at least one (1) of the following Postsecondary-Ready Competencies:
    - Honors designation: Fulfill all requirements of either the Academic or Technical Honors designation;
    - ACT: Earn the college-ready benchmark scores;
    - SAT: Earn the college-ready benchmark scores;
    - Armed Services Vocational Aptitude Battery (ASVAB): Earn at least a minimum Armed Forces Qualification Test (AFQT) score to qualify for placement into one of the branches of the US military;
    - State- and Industry-recognized Credential of Certification;
    - Federally-recognized Apprenticeship;
    - Career-Technical Education Concentrator: Earn a C average or higher in at least six (6) high school credits in a career sequence;
    - AP/International Baccalaureate/Dual Credit/Cambridge International course or College Level Examination Program (CLEP) Exams: Earn a C average or higher in at least three (3) courses;
    - Locally Created Pathway developed in accordance with the framework adopted by the SBOE and is approved by the SBOE.

Every student at Jefferson High School follows the Core 40 course of study. When Core 40 was established by the Indiana General Assembly in 1994, it was mandated that the State Board of Education adopt a technology preparation and a college preparation curriculum. As a result, the state Board of Education along with the Commission of Higher Education and Indiana colleges and universities have agreed upon the courses that students must take in order to be prepared for both higher education and the workplace. This group of courses is called Indiana's Core 40 (see page 3 for details).

When selecting a program of study, students and parents should work closely together. This is a critical time in a student's career. The decisions students make in high school will impact their future endeavors and career choices. Your school counselor is a valuable resource in helping you to make these decisions and to refine your program of study throughout your four years at Jefferson High School.

Listed below are factors you should consider when selecting your program of study:

1. Previous academic preparation
2. Previous ISTEP scores and other achievement and aptitude test scores
3. Teacher and counselor recommendations
4. Your future goals and career objectives
5. Weighted credit is awarded for Honor Courses, Advanced Placement Courses, and approved college-level courses

Jefferson High School encourages every student to attempt the most rigorous program of study in which they feel they can be successful. The more rigorous, the more opportunities the student will have available after graduation from high school.

DIPLOMA DESIGNATIONS

The Indiana General Assembly made completion of the Indiana Diploma with Core 40 designation a requirement for all students beginning with those who entered high school in the fall of 2007. The law includes an opt-out provision for parents who determine their students could benefit more from the Indiana Diploma with General designation. This designation can be discussed with a high school counselor.
Please see the complete diploma chart to view the Core 40 designation, Academic Honors designation, and Technical Honors designation, or visit:
https://www.doe.in.gov/sites/default/files/student-assistance/core-40-and-honors-diploma-summary-class-2016-updated-june-2018.pdf

Academic Honors Diploma

To earn an Academic Honors Diploma, a student is required to earn 47 credits. Only courses in which the student has earned a "C" grade or higher may be counted toward this diploma. The student must also maintain a cumulative grade point average of at least 3.0 on a 4.0 scale. The courses selected by students following this program of study should be the most academically challenging.

For specific courses required for the Academic Honors Diploma, refer to the chart on the following pages. or visit: https://www.doe.in.gov/sites/default/files/ccr/core-40-and-honors-diploma-summary-class-2016-final-revised-september-2017.pdf

Technical Honors Diploma

To earn a Technical Honors Diploma, a student is required to earn 47 credits. Only courses in which the student has earned a "C" grade or higher may be counted toward this diploma. The student must also maintain a cumulative grade point average of at least 3.0 on a 4.0 scale. Students must earn 6 credits in the college and career preparation courses in a state-approved College & Career Pathway and a state approved industry recognized certification or 6 transcribed approved pathway dual credits. Your counselor can give you more information on these certification requirements. , which can be found at: https://www.doe.in.gov/sites/default/files/ccr/core-40-and-honors-diploma-summary-class-2016-final-revised-september-2017.pdf

COURSE REGISTRATION AND SCHEDULE CHANGES

Guidance counselors meet with every student during the school year to request classes for the following year. During the selection process, parents/guardians are encouraged to communicate with their student and his/her counselor about the selected courses. The Curriculum Handbook and a complete course listing can be found on the JHS guidance website. Revisions to the student's course selection may be made until the JHS master scheduling deadline (February). This is very important because sections of courses are offered, teachers are scheduled, and class averages are determined based upon these student requests. Therefore, changes in individual schedules may have a negative impact on the overall JHS schedule. Once a schedule is in place, the student will need to QUALIFY to make further changes.

PLEASE UNDERSTAND - COURSE CHANGES CANNOT BE GRANTED FOR REASONS SUCH AS TEACHER PREFERENCE, LUNCH PREFERENCE, FRIENDS' SCHEDULES, OR CONVENIENCE.

1. All students are expected to take a full course load consisting of 7 or 8 credit hours, unless specified on their IEP. Requests for exceptions due to hardship or medical restrictions may be addressed by the student's counselor and/or administrator.
2. Students with qualifying reasons may make schedule changes through the fifth day of the semester. After that, NO schedule changes will be permitted without administrative approval. Students who request to drop a class after the fifth day of the semester must have administrative approval and, except in extenuating circumstances, will be removed with the grade W/F (withdraw-fail).

   Schedule changes QUALIFY for the following reasons:
   - Failure of a course required for graduation
   - Failure to meet course prerequisites
   - Medical reasons with documentation
   - Errors made by the school
   - Addition of a required course for graduation
   - Changes for students in the GLASS program per TOR
   - Addition of a scouting period for those who qualify
   - A level change (see next section)

3. A schedule change may be requested by visiting the Jefferson website at lafayettejeff.org > departments > guidance > request a schedule change.
4. Completely re-arranging a student's schedule rarely works. Students should plan to replace the class they choose to drop with a different class that is offered during the same time slot as the class they are dropping or during the student's current study hall.

DROPPED CLASSES

Students may drop a class to pick up a study hall or scouting position within the first 5 days of the semester. Any course dropped for any reason, other than for medical, after that point will be transcribed as an attempted credit with a failing grade (W/F).

GRADE POINT AVERAGE (GPA)

To compute the GPA, the total number of grade points earned is divided by the total number of credits attempted (not the total number of credits earned). Averages are figured cumulatively, meaning the total points for all semesters of school work are divided by the total credits attempted for all semesters. The scale for all standard courses is outlined below.

Jefferson High School offers honors level and Advanced Placement (AP) courses that use a weighted grading system to recognize and reward academic work in these rigorous course selections. The weight given for courses of this nature are outlined below.

Letter Grade	Standard Course Grading Scale	Standard Course Point Value	Honors/AP Course Grading Scale	Honors/AP Course Point Value
A+	N/A	N/A	90-100%	5.0
A	90-100%	4.0	80-89%	4.0
B	80-89%	3.0	70-79%	3.0
C	70-79%	2.0	N/A	N/A
D	60-69%	1.0	60-69%	1.0
F	59% and below	0	59% and below	0

GRADE REPLACEMENTS

Students may either want or need to retake classes in which they have received a low grade. The following procedure explains how retaken classes will be handled for transcription and GPA purposes.

1. Beginning with the class of 2022, courses in which the student has received a semester grade of C or below may be repeated to replace a grade.
2. In order to replace a grade, the exact course must be retaken. For example, if a student earned a C or below in Chemistry H, the only Chemistry H may be used to replace that grade. Any other version of Chemistry will count as a new course and will NOT be used to replace any other Chemistry course's grade. The original grade will remain on the transcript, but will not be used toward G.P.A. calculation.
3. Beginning with the class of 2022, an AP or Honors course may not be repeated through any outside institution for a grade replacement.
4. Once a course has been completed with a grade higher than the previous attempt, the old grade will be replaced.

SIX AND SEVEN SEMESTER (MIDTERM) GRADUATES

It is possible for a student to graduate from high school in six or seven semesters.

1. Students eligible to be seven semester graduates may participate in a January commencement, where they will receive their diploma. Students will have a choice to participate in the January or May/June Commencement Ceremony.
2. If a student wishes to graduate in six or seven semesters, the following criteria apply:
   A. All requirements for graduation must be completed by the end of their sixth semester for six semester graduates and by the end of their seventh semester for seven semester graduates. For six semester

graduates, this includes passage of the ISTEP+ Grade 10 in English/Language Arts and Math, OR completion of the Graduation Pathways as indicated under the "Graduation Requirements for the Class of 2023 and Beyond." Six semester graduates are NOT eligible to receive a waiver of any kind for incomplete requirements and will NOT be permitted to participate in Commencement.

LEVEL CHANGE POLICY

Occasionally students will discover that they have enrolled in a class that is significantly more difficult than they can successfully complete. In these instances, it may be possible to change the level of a course during the semester that is in progress. This change is defined as a level change. Note: *A move from Chemistry or Physics to Integrated Chemistry/Physics (ICP) is a course change, but will follow the same procedures outlined in the level change policy.
The following procedure will be used in order for a student to complete a level change:

1. The level change request must occur within the first 5 weeks of the semester.
2. The student must receive a copy of the "Parent Permission for Change of Subject Levels" form. The form can be obtained from the student's teacher or counselor.
3. The student must have a conversation with the teacher with which they are currently enrolled and are recommended to have a conversation with their counselor, as these will be important factors in deciding if a level change is necessary. It is important that the counselor and parent are aware of the teacher's recommendation, either for or against the level change, in order to make the best decision for the student. (This is a teacher recommendation only and does not constitute permission or denial on the teacher's part).
4. The student must receive a signature from both the teacher and the counselor (in either order), followed by a signature from their parent.
5. Once the parent has signed the form, the form must be returned to the student's counselor and he/she will make the necessary schedule updates.

If the level change is granted, the student must remain in that new level for the remainder of the school year. The student's grade-in-progress will travel with the student to the new course and may be used to calculate the grade in the new course. Upon completion of the semester, the transcript will list the course completed.

INCOMPLETE GRADES

Nine week grades are to be made up by the end of the first two weeks of the next grading period. Semester grades are to be made up by the end of the first two weeks of the next semester. After the deadlines, incomplete grades become "F's." Students who have been absent during final assessment week receive failing grades. Students must make up the assessment by the end of the 2nd week of the new semester or the grade remains an "F." The final assessments missed by such an absence may not be taken early. Students who, due to vacations, miss final assessment projects which cannot be made up may receive failing grades for those projects. Students whose absences during final assessments are unexcused will receive failing grades. Students who have excessive absences throughout the semester may fail

SEMESTER GRADES

Only semester grades are recorded on the permanent record/transcript. Credits are based on semester grades.

WEIGHTED GRADES

Jefferson high school has weighted courses, which helps determine class rank, Valedictorian and Salutatorian. Weighted courses are listed in the JHS curriculum guide. Accredited courses not listed in the JHS curriculum guide will receive credit towards graduation but will not receive weighted grade credit. This includes, but is not limited to, AP online courses, college courses, etc. Students transferring to Jefferson High School from another high school will only receive weighted grade credit for transferring grades of courses listed as such in the JHS curriculum guide.

HOMESCHOOLED STUDENTS

Homeschooled students attending Jefferson HS may take a maximum of three classes per semester. Otherwise, homeschooled students shall receive all the academic benefits, under the control of Jefferson HS, as that of fulltime JHS students. Homeschooled students, because they are not graduates of Jefferson HS, will not participate in Jefferson commencement ceremonies.

INDIANA

CORE 40

Effective beginning with students who enter high school in 2012-13 school year (class of 2016).

Course and Credit Requirements

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

40 Total State Credits Required

Schools may have additional local graduation requirements that apply to all students (not required for students with an IEP).

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

**SAT scores updated September, 2017

***WorkKeys assessment titles updated, 2018

CORE 40 with Academic Honors *(minimum 47 credits)*

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

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

CORE 40 with Technical Honors *(minimum 47 credits)*

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

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

GRADUATION PATHWAYS

The purpose for this Panel is to establish graduation pathway recommendations for the State Board of Education that create an educated and talented workforce able not just to meet the needs of business and higher education, but able to succeed in all postsecondary endeavors. To account for the rapidly changing, global economy, every K-12 student needs to be given the tools to succeed in some form of quality postsecondary education and training, including an industry recognized certificate program, an associate's degree program, or a bachelor's degree program.

These recommendations seek to ensure that every Hoosier student graduates from high school with 1) a broad **awareness** of and **engagement** with individual career interests and associated career options, 2) a strong foundation of **academic** and **technical skills**, and 3) **demonstrable employability skills** that lead directly to meaningful opportunities for postsecondary education, training, and gainful employment.

Students in the graduating class of 2023 and beyond must satisfy all three of the following Graduation Pathway Requirements by completing one of the associated Pathway Options:

Graduation Requirements	Graduation Pathway Options
1) High School Diploma	Meet the statutorily defined diploma credit and curricular requirements.
2) Learn and Demonstrate Employability Skills[1] (Students must complete *at least one* of the following.)	Learn employability skills standards through locally developed programs. Employability skills are demonstrated by one the following: • **Project-Based Learning Experience**; OR • **Service-Based Learning Experience**; OR • **Work-Based Learning Experience.**[2]
3) Postsecondary-Ready Competencies[3] (Students must complete *at least one* of the following.)	• **Honors Diploma**: Fulfill all requirements of either the Academic or Technical Honors diploma; OR • **ACT**: College-ready benchmarks; OR • **SAT**: College-ready benchmarks; OR • **ASVAB**: Earn at least a minimum AFQT score to qualify for placement into one of the branches of the US military; OR • **State- and Industry-recognized Credential or Certification;** OR • **Federally-recognized Apprenticeship**; OR • **Career-Technical Education Concentrator**[4]**:** Must earn a C average in at least two non-duplicative advanced courses (courses beyond an introductory course) within a particular program or program of study; OR • **AP/IB/Dual Credit/Cambridge International courses**[5] **or CLEP Exams:** Must earn a C average or higher in at least three courses; OR • **Locally created pathway** that meets the framework from and earns the approval of the State Board of Education.

Next Level Programs of Study Course Sequences									
Career Pathway	**Program Location**	**Principles - Level I**		**CTE Concentrator A - Level I**		**CTE Concentrator B - Level I**		**Pathway Capstone - Level II**	
Industry 4.0 - Smart Manufacturing	**GLCA**	7220	Principles of Industry 4.0 - Smart Manufacturing	4728	Robotics Design and Innovation	7100	Smart Manufacturing Systems	7222	Industry 4.0 - Smart Manufacturing Capstone
Welding Technology	**GLCA**	7110	Principles of Welding Technology	7111	Shielded Metal Arc Welding	7101	Gas Welding Processes	7226	Welding Technology Capstone
Precision Agriculture (New)	**GLCA**	7117	Principles of Agriculture	7116	Precision Agriculture	7113	Crop Management	7236	Precision Agriculture Capstone
Construction Trades - Carpentry	**GLCA**	7130	Principles of Construction Trades	7123	Construction Trades: General Carpentry	7122	Construction Trades: Framing and Finishing	7242	Construction Trades Capstone
Fashion Textiles and Design	**JHS**	7301	Principles of Fashion and Textiles	7302	Textiles, Apparel, and Merchandising	7303	Advanced Textiles	7304	Fashion and Textiles Capstone
Radio and Television Broadcasting	**JHS**	7139	Principles of Broadcasting	7306	Audio and Video Production Essentials	7307	Mass Media Production	7308	Radio & TV Broadcasting Capstone
Business Administration (formerly E&M Bus Mgmt Focus)	**JHS**	4562	Principles of Business Management	7143	Management Fundamentals	4524	Accounting Fundamentals	7256	Business Administration Capstone

Next Level Programs of Study Course Sequences									
Career Pathway	**Program Location**	**Principles - Level I**		**CTE Concentrator A - Level I**		**CTE Concentrator B - Level I**		**Pathway Capstone - Level II**	
Accounting	**JHS**	4562	Principles of Business Management	4524	Accounting Fundamentals	4522	Advanced Accounting	7252	Accounting Capstone
Finance and Investment	**JHS**	4562	Principles of Business Management	7150	Personal Finance and Banking	5258	Finance and Investment	7265	Finance and Investment Capstone
Entrepreneurship	**GLCA**	7154	Principles of Entrepreneurship	7148	New Venture Development	7147	Small Business Operations	7201	Business Management Capstone
Marketing and Sales	**JHS**	4562	Principles of Business Management	5914	Marketing Fundamentals	5918	Strategic Marketing	7201	Business Management Capstone
Education Careers	**GLCA**	7161	Principles of Teaching	7157	Child and Adolescent Development	7162	Teaching and Learning	7267	Education Professions Capstone
Emergency Medical Services	**GLCA**	7168	Principles of Healthcare	5274	Medical Terminology - NLPS	7165	Emergency Medical Tech	7255	Healthcare Specialist Capstone
Medical Assistant (New)	**GLCA**	7168	Principles of Healthcare	5274	Medical Terminology - NLPS	7164	Certified Clinical Medical Assistant (CCMA)	7255	Healthcare Specialist Capstone
Pre-Nursing	**GLCA**	7168	Principles of Healthcare	5274	Medical Terminology - NLPS	7166	Healthcare Specialist: C N A	7255	Healthcare Specialist Capstone

Next Level Programs of Study Course Sequences									
Career Pathway	**Program Location**	**Principles - Level I**		**CTE Concentrator A - Level I**		**CTE Concentrator B - Level I**		**Pathway Capstone - Level II**	
Exercise Science	**GLCA**	7320	Principles of Exercise Science	7321	Kinesiology	7322	Human Performance	7323	Physical Therapy Capstone
Culinary Arts	**JHS and GLCA**	7173	Principles of Culinary and Hospitality	7171	Nutrition	7169	Culinary Arts	7233	Culinary Capstone
Cosmetology	**GLCA**	7330	Principles of Barbering and Cosmetology	7331	Barbering and Cosmetology Fundamentals	7332	Advanced Cosmetology	7334	Barbering and Cosmetology Capstone
Human and Social Services	**GLCA**	7176	Principles of Human Services	7174	Understanding Diversity	7177	Relationships and Emotions	7241	Human Services Capstone
Information Technology Operations	**JHS**	7183	Principles of Computing	7180	Information Technology Fundamentals	7181	Networking and Cybersecurity Operations	7245	IT Operations: IT Support Capstone
Networking	**GLCA**	7183	Principles of Computing	7180	Information Technology Fundamentals	7182	Networking Fundamentals	7251	Networking Capstone
Software Development	**GLCA**	7183	Principles of Computing	7185	Website and Database Development	7184	Software Development	7253	Software Development Capstone
Criminal Justice	**GLCA**	7193	Principles of Criminal Justice	7191	Law Enforcement Fundamentals	7188	Corrections and Cultural Awareness	7231	Criminal Justice Capstone
Fire and Rescue	**GLCA**	7195	Principles of Fire and Rescue	7189	Fire Fighting Fundamentals	7186	Advanced Fire Fighting	7229	Fire and Rescue Capstone/EMT

Next Level Programs of Study Course Sequences									
Career Pathway	**Program Location**	**Principles - Level I**		**CTE Concentrator A - Level I**		**CTE Concentrator B - Level I**		**Pathway Capstone - Level II**	
Engineering Option 1	**JHS**	4802	Introduction to Engineering Design	5644	Principles of Engineering	5538	Digital Electronics	5698	Engineering Design and Development
Engineering Option 2	**GLCA**					5650	Civil Engineering and Architecture		
Automotive Services	**GLCA**	7213	Principles of Automotive Services	7205	Brake Systems	7212	Steering and Suspensions	7375	Automotive Service Capstone
Aviation Management (formerly Aviation Flight and Operations)	**GLCA**	7214	Principles of Aviation Management	7217	Private Pilot Theory	7207	Aviation Safety and Operations	7218	Aviation Management Capstone
Aviation Maintenance	**GLCA**	5520	Aviation Maintenance I-Year 1	5522	Aviation Maintenance II-Year 2				

Jefferson High School

Indiana College Core

The Indiana College Core (ICC) is a block of 30 credits students must earn through dual credit or AP test scores.

- At least 15 credit hours must be earned through Ivy Tech Community College (ITCC) to be eligible.
- Students must earn a minimum number of credits within each of the six contents.
- Some of these options will be offered free of charge, but some may have fees.
- It is the students' responsibility to transfer AP test scores to ITCC credits.

Courses listed below in **BLACK** are **DUAL CREDIT COURSES** currently offered at JHS through ITCC unless noted otherwise. These are subject to change due to staff changes and student enrollment.

Courses listed below in **RED** are **AP COURSES** currently offered at JHS. These are subject to change due to staff changes and student enrollment.

Learn more about the Indiana College Core and start your plan at https://mycollegecore.org/plan/.

WRITTEN COMMUNICATION (3 - 6 credits)

DOE #1006 English 11 CP	ENGL 111 English Composition (3 credits)
DOE #1056 AP English Language	(Score=3=3 credits; Score=4,5=6 credits)

SPEAKING & LISTENING (3 - 6 credits)

DOE #1078 Adv Speech & Communication	COMM 101 Fundamentals of Public Speaking (3 credits)

Quantitative reasoning (3 - 15 credits)

DOE #2550 Quantitative Reasoning	MATH 123 Quantitative Reasoning (3 credits)(Starting Fall 2024)
DOE #2564 Pre-Calculus (Sem 1)	MATH 136 College Algebra (3 credits)
DOE #2566 Trigonometry (Pre-Cal Sem 2)	MATH 137 Trig with Analytic Geometry (3 credits)
DOE #2527 Calculus	MATH 211 Calculus I (4 credits)
DOE # 2562 AP Calculus AB	(Score=3,4,5=4 credits)
DOE# 2570 AP Statistics	(Score=3,4,5=3 credits)

SCIENTIFIC WAYS OF KNOWING

(3 - 15 credits)

DOE #3046 Honors Earth Science	SCIN 100 Earth Science (4 credits)
DOE #3064 Honors Chemistry (Not offered as dual credit Fall 2023 and beyond)	Chem C101/121 Elementary Chem I/Elementary Chem Lab I (through IU) (3 or 5 credits)
DOE #3020 AP Biology (dual credit)	BIOL 105 (5 credits)
DOE #3020 AP Biology	(Score=3=3 credits; Score=4=5 credits; Score=5=10 credits)
DOE #3060 AP Chemistry	(Score=3=3 credits; Score=4,5=10 credits)
DOE #3080 AP Physics	(Score=3,4,5=4 credits)

SOCIAL & BEHAVIORAL WAYS OF KNOWING

(3 - 15 credits)

DOE #1558 AP Psychology	(Score=3,4,5=3 credits)
DOE #1560 AP US Government & Politics	(Score=3,4,5=3 credits)
DOE #1562 AP US History	(Score=3,4,5=6 credits)
DOE #1612 AP World History	(Score=3,4,5=6 credits)
DOE#1566 AP Microeconomics	(Score=3,4,5=3 credits)

HUMANISTIC WAYS OF KNOWING

(3 - 15 credits)

DOE #2024 French III	FREN 101 French Level I (4 credits)
DOE #2024 French III	FREN 102 French Level II (4 credits)
DOE #2026 French IV	FREN 201 French Level III (3 credits)
DOE #2026 French IV	FREN 202 French Level IV (3 credits)
DOE #2124 Spanish III	SPAN 101 Spanish Level I (4 credits)
DOE #2124 Spanish III	SPAN 102 Spanish Level II (4 credits)
DOE #2126 Spanish IV	SPAN 201 Spanish Level III (3 credits)
DOE #2126 Spanish IV	SPAN 202 Spanish Level IV (3 credits)

DUAL CREDIT COURSES AT JEFFERSON HIGH SCHOOL

Complete high school and college credits at the same time!

Indiana Department of Education, Ivy Tech Community College, Vincennes University, and Jefferson High School (JHS) have worked together to develop opportunities for high school students to enroll in courses at JHS and these colleges simultaneously in order to earn high school and college credit concurrently. Through this dual credit arrangement, students may earn college credit at the same time they earn high school credit without a need to physically attend on-campus classes. Consequently, students may earn a jump-start on their college education before graduating from high school, potentially saving students time and money in completing college programs. In addition, students may fulfill requirements of the Core 40 with Academic Honors Diploma or the Core 40 with Technical Honors Diploma through dual credit completion. Prior to enrollment in dual credit, students must first complete any prerequisite courses and meet any other Prerequisite requirements, such as attaining minimal scores on college entrance examinations, within the required guidelines of enrollment for each dual credit course. For Ivy Tech dual credit, there is no cost to the high school student. **The courses listed below were available for dual credit at the time of this handbook's publication, based on the crosswalk, and are subject to change. High school counselors will have the most current dual credit course information as it becomes available.**

	JHS Course	JHS Total Credits	College Course I = Ivy Tech P = Purdue V = Vincennes B = Butler U = Indiana State	College Credit Hrs.
ART	4082 Digital Design	2	I VISC 115 Intro to Computer Graphics (this course does not count as dual credit for AHD or THD)	3
BUSINESS	4562 Principles of Business Management	2	I BUSN 101 Introduction to Business Management	3
	5914 Marketing Fundamentals	2	I MRTG 101 Principles of Marketing	3
	7143 Management Fundamentals	2	I BUSN 201 Business Law	3
	7154/7148/7147 Entrepreneurship (GLCA)	6	I ENTR 100 Entrepreneurial Foundations I ENTR 200 Entrepreneurial Mindset and Awareness I ENTR 215 New Venture Development	5 5 6
CTE	7213/7205/7212 Automotive Services (GLCA)	6	I AUTI 100 Basic Auto Service I AUTI 111 Electrical I I AUTI 121 Brake Systems I AUTI 122 Steering and Suspension Systems	3 3 3 3
	7375 Automotive Services Capstone (GLCA)	6	I AUTI 131 Engine Performance Systems I AUTI 141 Engine Fundamentals & Repairs I AUTI 145 Driveline Service	3 3 3
	7214/7217/7207 Aviation Management & Flight (GLCA)	6	I AVIT 111 Intro to Aviation Technology I AVIT 120 Private Pilot Theory I AVIT 132 Aviation Operations I AVIT 138 Aviation Weather Services	2 3 3 3
	5520 Aviation Maintenance I (GLCA)	6	P To Be Determined	3+
	5522 Aviation Maintenance II (GLCA)	6	To Be Determined	3+
	7130/7123/7122 Construction Trades - Carpentry (GLCA)	6	V CNST 100 Construction Seminar V CNST 105/105L Framing/Framing Lab V CNST 120 Construction Safety V CNST 160/160L Finish Carpentry	1 4 3 4
	7242 Construction Trades Capstone (GLCA)	6	V CNST 160 Finish Carpentry V CNST 160L Finish Carpentry Lab	2 2
	7330/7331/7332/7334 Cosmetology (GLCA)	12	V COSM 100 Cosmetology I V COSM 150 Cosmetology II V COSM 200 Cosmetology III	7 7 7
	7193/7191/7188 Criminal Justice (GLCA)	6	V LAWE 100 Survey of Criminal Justice V LAWE 101 Basic Police Operations V LAWE 145 Ethics and Professionalism in Criminal Justice V LAWE 150 Criminal Minds and Deviant Behaviors	3 3 3 3
	7231 Criminal Justice Capstone (GLCA)	6	V LAWE 270 Internship in Law Enforcement V LAWE 282 Indiana Jail Officer Certification	3 3
	7161/7157/7162 Education Professions (GLCA)	6	P EDCI 205 Exploring Teaching as a Career I EDCU 121 Child & Adolescent Development I EDCU 201 Technology in Education	3 3 2
	7267 Education Professions Capstone (GLCA)	6	I EDCU 230 The Exceptional Child I EDCU 233 Literacy Development through Children's Literature	3 3
	7168/5274/7165 EMT (GLCA)	6	I PHARM 102 Emergency Medical Technician I HLHS 100 Introduction to Health Careers I HLHS 104 CPR/Basic Life Support I HLHS 101 Medical Terminology I HLHS 102 Essentials of Anatomy & Physiology	7.5 3 .5 3 3
	7213/7205/5698 Engineering Design & Development (Motorsports)(GLCA)	6	I AUTI 100 Basic Automotive Service I AUTI 111 Electrical l I AUTI 121 Brake Systems	3 3 3

	5650/5698/5974 Engineering Design and Development & Civil Engineering and Architecture (GLCA)	6	◧ DESN 105 Architectural Design	3
	7320/7321/7322 Exercise Science (GLCA)	6	◧ To Be Determined	
	7195/7189/7186 Fire & Rescue (GLCA)	6	◧ HSPS 102 Introduction to Public Safety ◧ HSPS 122 Hazmat Awareness & Operations ◧ HSPS 106 Fire Suppression ◧ HSPS 165 Firefighter I ◧ HSPS 167 Firefighter II	3 3 3 3 3
	7255 Healthcare Specialist Capstone (GLCA)	6	◧ HLHS 105 Medical Law and Ethics	3
	7183 Principles of Computing	2	◧ INFM 109 Information Fundamentals ◧ ITSP 175 IT Customer Support and Helpdesk Software	3 3
	7180 Information Technology Fundamentals	2	◧ ITSP 132 IT Support Essentials I ◧ ITSP 134 IT Support Essentials II	2 2
	7168/5274/7164 Medical Assistant (GLCA)	6	◧ HLHS 100 Introduction to Health Careers ◧ HLHS 101 Medical Terminology ◧ HLHS 102 Essentials of Anatomy & Physiology ◧ HLHS 104 CPR/Basic Life Support	3 3 3 .5
	5274 Medical Terminology	2	◧ HLHS 101 Medical Terminology	3
	7183/7180/7181 Networking & Cybersecurity	6	◧ To Be Determined	
	7168/5274/7166 Pre-Nursing (CNA) (GLCA)	6	◧ HLHS 100 Introduction to Health Careers ◧ HLHS 101 Medical Terminology ◧ HLHS 102 Essential Anatomy & Physiology ◧ HLHS 104 CPR/Basic Life Support ◧ HLHS 107 CNA Preparation ◧ HLHS 113 Dementia Care	3 3 3 .5 5 3
	7117/7116/7113Precision Agriculture (GLCA)	6	◧ AGRI 100 Introduction to Agriculture ◧ PAET 100 Introduction to Precision Ag ◧ PAET 107 Unmanned Aerial Systems ◧ AGRI 117 Soil Science ◧ AGRI 217 Soil Fertility	3 3 3 3 3
	7168 Principles of Healthcare	2	◧ HLHS 100 Introduction to Health Careers	3
	7139 Principles of Broadcasting	2	◧ BCST 102 Intro to Audio-Video Production	3
	7306 Audio and Visual Production Essentials	2	◧ BCST 120 Audio Production ◧ BCST 140 Video Production I – Studio Production	3 3
	7183/7185/7184 Software Development (GLCA)	6	◧ SDEV 120 Computing Logic ◧ INFM 109 Informatics Fundamentals ◧ SDEV 140 Intro to Software Development ◧ SDEV 153 Website Development ◧ DBMS 110 Introduction to Data Analytics	3 3 3 3 3
	7108/7103/7104 T.E.A.L Manufacturing (GLCA)	6	◧ ADMF 101 Key Principles of Advanced Manufacturing ◧ ADMF 102 Technology in Advanced Manufacturing ◧ INDT 113 Industrial Electrical I ◧ INDT 114 Introductory Welding ◧ MTTC 101 Introductory Machining	3 3 3 3 3
	7261 T.E.A.L. Manufacturing Capstone (GLCA)	6	◧ To Be Determined	
	7110/7111/7101 Welding Technology (GLCA)	6	◧ WELD 100 Oxy-Acetylene Welding ◧ WELD 108 Shielded Metal Arc Welding I ◧ WELD 207 Gas Metal Arc (MIG) Welding ◧ WELD 206 Adv. Shielded Metal Arc Welding II ◧ WELD 208 Gas Tungsten Arc (TIG) Welding	3 3 3 3 3
	4812 IED PLTW	2	◧ DESN 101 Intro to Design Technology	3
	4814 POE PLTW	2	◧ DESN 104 Mechanical Graphics	3
ENGLISH	1006 English 11 CP	2	◧ ENG 111 English Composition	3
	1078 Speech	1	◧ COMM 101 Fundamentals of Public Speaking	3
FACS	7173/ 7171/7169 Culinary Arts & Hospitality (GLCA)	6	◧ HOSP 103 Soups, Stocks & Sauces ◧ HOSP 104 Nutrition ◧ HOSP 105 Introduction to Baking ◧ HOSP 114 Introduction to Hospitality ◧ HOSP 171 Introduction to Convention/ Meeting Management	3 3 3 3 3
	7233/7235/7172 Culinary Arts & Hospitality Capstone (GLCA)	6	◧ HOSP 106 Pantry and Breakfast ◧ HOSP 108 Human Relations Management ◧ HOSP 114 Intro to Hospitality	3 3 3

	7173 Principles of Culinary and Hospitality	2	◧ HOSP 101 Sanitation and Safety ◧ HOSP 102 Basic Food Theory and Skills	2 3
	7171/7172 Nutrition and Hospitality Management	4	◧ HOSP 114 Introduction to Hospitality ◧ HOSP 171 Introduction to Convention/ Meeting Management	3 3
MATH	2527 Calculus	2	◧ MATH 211 Calculus I	4
	2550 Quantitative Reasoning	2	◧ MATH 123 Quantitative Reasoning	3
	2564 Pre-Calculus (College Algebra) Pre-Calculus H (College Algebra)	1	◧ MATH 136 College Algebra	3
	2566 Pre-Calculus (Trigonometry) Pre-Calculus (Trigonometry H)	1	◧ MATH 137 Trigonometry with Analytical Geometry	3
SCIENCE	3021 AP Biology 3046 H Earth Science	2 2	◧ BIOL 105 ◧ SCIN 100	5 4
	5276 Anatomy & Physiology	2	◧ APHY 101 Anatomy & Physiology	3
	3012 AP Environmental Science	2	◧ BIOL 120 Environmental Science	3
WORLD LANGUAGES	2004 Chinese III	2	◧ CN 203 Chinese	3
	2006 Chinese IV	2	◧ CN 204 Chinese	3
	2024 French III	2	◧ FREN 101 French Level I ◧ FREN 102 French Level II	4 4
	2026 French IV	2	◧ FREN 201 French Level III ◧ FREN 202 French Level IV	3 3
	2124 Spanish III	2	◧ SPAN 101 Spanish Level I ◧ SPAN 102 Spanish Level II	4 4
	2126 Spanish IV	2	◧ SPAN 201 Spanish Level III ◧ SPAN 202 Spanish Level IV	3 3

GREATER LAFAYETTE CAREER ACADEMY
CAREER & TECHNICAL EDUCATION PROGRAMS

Lafayette School Corporation (LSC) is a member of the Greater Lafayette Career Academy (GLCA), a joint venture of the public schools in Tippecanoe County. GLCA offers career/technical education programs in which students from any of the member school corporations may participate. All GLCA programs offer dual credits and industry certifications. Detailed program information can be found in the GLCA Program Description Guide at **www.GLCareerAcademy.com** under the RESOURCES tab.

Students must complete enrollment through their high school counselor for participation in the GLCA programs by the end of first semester in the school year prior to intended participation. Acceptance for enrollment is based upon a review of appropriate prerequisites courses as well as academic, attendance, and discipline records. Students approved for enrollment in these programs spend approximately half of each day at Jefferson High School and the other half of each day at the career/technical site. Signed parent permission and agreement forms are required for each of these programs. Acceptance into and enrollment in a GLCA program is a year-long commitment (no mid-term graduates).

Students enrolled in area career programs are required to follow the GLCA Calendar and Schedule, these may differ somewhat from the Jefferson High School calendar and daily schedule.Students selected for enrollment in these programs must remain in good academic standing at Jefferson High School in order to continue enrollment in subsequent semesters. This means the student must maintain regular attendance in all classes according to the school's attendance policy, maintain a discipline record without serious infractions, and demonstrate progress in passing all classes. Continuing enrollment is always at the discretion of Jefferson High School officials. **Students are not permitted to attend GLCA programs on days when absent from classes at Jefferson High School unless special circumstances are approved.**

ART

Students taking any art course at Jefferson High School will engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production in addition to the course-specific experiences which will lead to portfolio quality work.

Foundation Arts

INTRODUCTION TO TWO-DIMENSIONAL ART

1 semester course, 1 credit, offered 1st semester – *Prerequisites: None* (DOE Course Code: 4000)

A major emphasis will be devoted to the study and application of basic drawing and design skills and the elements and principles of art.

ADVANCED TWO-DIMENSIONAL ART

1 semester course, 1 credit, offered 2nd semester – *Prerequisites: Completed Introduction to Two-Dimensional Art* (DOE Course Code: 4004)

Students in *Advanced Two-Dimensional Art* build on the sequential learning experiences of *Introduction to Two-Dimensional Art*. A comprehensive study of art history is covered this term as well as the study of related artists utilized during each lesson. A major emphasis is devoted to the study and application of color theory and the elements and principles of art.

Upper Level Art Courses

A passing grade in Introduction to Two-Dimensional Art AND Advanced Two-Dimensional Art are required prerequisites to take the courses listed below:

Three-Dimensional Art:
- Ceramics I
- Ceramics II
- Fiber Arts I
- Fiber Arts II
- Jewelry I (even years)
- Introduction to Three-Dimensional Art

Two-Dimensional Art:
- Drawing I
- Drawing II
- Painting I
- Painting II
- Photography I
- Photography II
- Printmaking

Visual Design:
- Ⅱ-Ⅰ Digital Design

AP Art:
Requires Instructor Approval

	Grade Level
AP Drawing: Honors **Ⅱ-Ⅰ VISC 111 Drawing for Visualization**	12
AP 2-D Art and Design: Honors	12
AP 3-D Art and Design: Honors	12

Ⅱ-Ⅰ Dual Credit available from Ivy Tech-Central Indiana (Indianapolis) (see course description)

Three-Dimensional Art

CERAMICS I

Full year course, 1 credit per semester – *Prerequisites: 1st semester: Introduction to Two-Dimensional Art and a passing grade in Advanced Two-Dimensional Art* (DOE Course Code: 4040)

Ceramics I students engage in learning experiences that encompass art history, art criticism, aesthetics, and production. Students will be introduced to working on the pottery wheel. Students will learn various glazing and surface decorating techniques. Students will study current ceramic artists and the history of ceramics.

Second semester students will continue to explore wheel and hand-built designs and delve more into textural and glazing possibilities for surface designs. Students will continue to learn about current ceramic artists. Students utilize the resources of art museums, galleries, and studios, and identify art-related careers.

CERAMICS II

Full year course, 1 credit per semester – *Prerequisites: 1st semester: Introduction to Two-Dimensional Art and a passing grade in Advanced Two-Dimensional Art, passing grade in 2nd semester of Ceramics I* (DOE Course Code: 4040)

Ceramics II students engage in learning experiences that encompass art history, art criticism, aesthetics, and production, and lead to the creation of portfolio quality works. Students will use previously learned skills from *Ceramics I* and develop their own unique style and form of expression. Students utilize the resources of art museums, galleries, and studios, and identify art-related careers.

FIBER ARTS I

Full year course, 1 credit per semester – *Prerequisites: Introduction to Two-Dimensional Art and a passing grade in Advanced Two-Dimensional Art* (DOE Course Code: 4046)

In the 1st semester of *Fiber Arts I*, students produce foundation work in the area of weaving, dyeing, and stitchery. Students create fiber art works utilizing processes such as foam core loom and off-loom construction, dyeing, and stitchery.

Students in the 2nd semester of *Fiber Arts I* produce works for their portfolios, which demonstrate a desire to explore a variety of ideas and problems. Students create fiber art works utilizing processes such as off-loom construction, dyeing, coiling, and soft sculpture construction. The emphasis is on fiber three-dimensional design concepts.

FIBER ARTS II

Full year course, 1 credit per semester – *Prerequisites: 1st semester: Introduction to Two-Dimensional Art and a passing grade in Advanced Two-Dimensional Art, passing grade in 2nd semester of Fiber Arts 1* (DOE Course Code: 4046)

Students in the 1st semester of *Fiber Arts II* produce works for their portfolios, which demonstrate a desire to explore a variety of ideas and problems. Students create fiber art works utilizing processes such as 4 and 8 harness loom and off-loom construction, dyeing, coiling, and stitchery.

Students in the 2nd semester of *Fiber Arts II* are focused on a semester-long project such as garment construction, yardage of fabric, or three-dimensional forms.

JEWELRY I

Full year course, 1 credit per semester, offered even – *Prerequisites: 1st semester: Introduction to Two-Dimensional Art and a passing grade in Advanced Two-Dimensional Art* DOE Course Code: 4042)

Students in *Jewelry* engage in sequential learning experiences that encompass students creating works of jewelry design and fabricating techniques including; wire work, stamping, sawing, piercing, filing, soldering, bezel setting, and salt water copper etching. Student learn to use equipment such as acetylene torches, hand tools, grinders, and polishers in a safe manner. Art museums, galleries, studios, and community resources are utilized.

INTRODUCTION TO THREE- DIMENSIONAL ART

(3D ART)

1 semester course, 1 credit, offered both semesters – *Prerequisites: Passing grade in Introduction to Two-Dimensional Art, passing grade in Advanced Two-Dimensional Art* (DOE Corse Code 4002)

Introduction to Three-Dimensional Art is a course based on the Indiana Academic Standards for Visual Art. Students taking this course engage in sequential learning experiences that encompass art history, art criticism, aesthetics, production, and integrated studies and lead to the creation of portfolio quality works. Students explore historical and cultural background and connections; analyze, interpret, theorize, and make informed 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; and incorporate literacy and presentational skills. They identify ways to utilize and support art museums, galleries, studios, and community resources discover opportunities for integration; and incorporate literacy and presentational skills. They identify ways to utilize and support art museums, galleries, studios, and community resources.
● Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma
● Required for Arts Pathway students

Two-Dimensional Art

DRAWING I

Full year course, 1 credit per semester – *Prerequisites: 1st semester: Introduction to Two-Dimensional Art and a passing grade in Advanced Two-Dimensional Art* (DOE Course Code: 4060)

Drawing I is a course based on the Indiana Academic Standards for Visual Art. Students engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production, and lead to portfolio quality works. Students create drawings utilizing processes such as sketching, rendering, contour, gesture, and perspective drawing, and use a variety of media such as pencil, colored pencil, charcoal, watercolor pencils, conté crayon, and pen & ink. They reflect upon and refine their work; explore cultural and historical connections; analyze, interpret, theorize, and make informed judgments about artwork and the nature of art; relate art to other disciplines and discover opportunities for integration; and incorporate literacy and presentation skills. Students utilize the resources of art museums, galleries, and studios, and identify art-related careers.

DRAWING II

Full year course, 1 credit per semester – *Prerequisites: 1st semester: Introduction to Two-Dimensional Art and a passing grade in Advanced Two-Dimensional Art, passing grade in 2nd semester of Drawing I* (DOE Course Code: 4060)

Students in *Drawing II* build on the sequential learning experiences of *Drawing I*, thereby encompassing art history, art criticism, aesthetics, and production that lead to portfolio quality works. Students work on ideas and themes to develop an individual style. Students work more independently, creating drawings that utilize processes such as sketching, rendering, contour, gesture, and perspective drawing, and use a variety of media such as graphite and colored pencil, and oil pastels, charcoal, conté crayon, and pen and ink on traditional and non-traditional surfaces. Additionally, students use similar reflective writing and present their work. Further elaboration through art historical connections and career options is encouraged.

PAINTING I

Full year course, 1 credit per semester – *Prerequisites: 1st semester: Introduction to Two-Dimensional Art and a passing grade in Advanced Two-Dimensional Art, and a passing grade in 2nd semester of Drawing I* (DOE Course Code: 4064)

Painting I is a course based on the Indiana Academic Standards for Visual Art. Students engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production, and lead to the creation of portfolio quality works. Students create abstract and realistic paintings, using a variety of materials such as mixed media, watercolor, and acrylics, but the primary focus of this course is oil painting. The reflect upon and refine their work; explore cultural and historical connections; analyze, interpret, theorize, and make informed judgments about artwork and the nature of art; relate art to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills. Students utilize the resources of art museums, galleries, and studios, and identify art-related careers.

PAINTING II

Full year course, 1 credit per semester – *Prerequisites: 1st semester: passing grade in 2nd semester of Painting I* (DOE Course Code: 4064)

Students taking *Painting II* will engage in sequential experiences in art history, art criticism, aesthetics, and production that lead to portfolio quality works. Within this context a student (1) may work realistically or abstractly, making informed decisions in order to express a mood and their artists perspective, (2) reflect upon the outcome of these experiences, (3) continue to explore a theme or technical approach based upon previous success and personal choice, (4) write about the process, (5) make presentations about their progress at regular intervals, (6) work both at home as well as in class, (7) explore career options in art, and (8) show their portfolio to an art school for scholarship consideration. Art museums, galleries, studios, and/or community resources are utilized.

PHOTOGRAPHY I

Full year course, 1 credit per semester – *Prerequisites: 1st semester: Introduction to Two-Dimensional Art and a passing grade in Advanced Two-Dimensional Art* (DOE Course Code: 4062)

Photography is a course based on the Indiana Academic Standards for Visual Art. Students in photography engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production and lead to the creation of portfolio quality works, creating photographs, films, and videos utilizing a variety of digital tools and dark room processes. They reflect upon and refine their work: explore cultural and historical connections; analyze, interpret, theorize, and make informed judgements about artwork and the nature of art; relate are to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills. Students utilize the resources of art museums, galleries, and studios, and identify art related careers.

The 1st semester of *Photography I* introduces the medium by blending art and technology. Students create images utilizing a variety of film-based and digital tools. Students learn to technically control their cameras, enabling them to create images using the darkroom and computers. Students reflect on the projects via writing, research, and critiques. Assessments are based on student/teacher rubrics for participation, tests, and a final examination of projects.

The 2nd semester of *Photography I* includes the continuation of the first, raising expectations and requirements. The students apply conceptual, individualized projects while integrating digital work and historical darkroom processes. Emphasis includes the comprehension of Photoshop and the use of scanners and printers, concluding the course with a final public viewing of their work.

PHOTOGRAPHY II

Full year course, 1 credit per semester – *Prerequisites: 1st semester: Introduction to Two-Dimensional Art and a passing grade in Advanced Two-Dimensional Art, and a passing grade in 2nd semester of Photography I* (DOE Course Code: 4062)

Photography is a course based on the Indiana Academic Standards for Visual Art. Students in photography engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production and lead to the creation of portfolio quality works, creating photographs, films, and videos utilizing a variety of digital tools and dark room processes. They reflect upon and refine their work: explore cultural and historical connections; analyze, interpret, theorize, and make informed judgements about artwork and the nature of art; relate are to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills. Students utilize the resources of art museums, galleries, and studios, and identify art related careers.

The 1st semester of *Photography II* begins with a review of camera functions and darkroom techniques. Student projects are based on community outreach by using the camera as a tool to create awareness of current societal issues. Students reflect on the projects via creative writing, extensive research, and conceptual-based critiques. Assessments are based on student/teacher rubrics for participation, tests and a final examination of projects.

The 2nd semester of *Photography II* includes the above information as well as an intensive study of digital photography including taking photos with DSLR'S, cell phones and flatbed scanners. An emphasis is placed on transferring images to MAC computers and cataloging their photos using Light Room and Photoshop for editing.

The students also work with time-based media by creating their own storyboards, screenplays, and overall direction of film. Students work also includes traditional film, digital, and historical processes. The students participate in several public shows, write artist statements, and utilize critiques for analysis of their work. A final portfolio in

preparation for college entrance is required for successful completion of the course.

PRINTMAKING

Full year course, 1 credit per semester – *Prerequisites: 1st semester: Introduction to Two-Dimensional Art and a passing grade in Advanced Two-Dimensional Art* (DOE Course Code: 4066)

Printmaking is a course based on the Indiana Academic Standards for Visual Art. Students in printmaking engage in sequential learning experiences that encompass art history, criticism, aesthetics, and production that lead to the creation of the portfolio quality works. Students apply media, techniques, and processes with sufficient skill to communicate intended meaning. They create abstract and realistic prints using a variety of materials such as linocut, woodcut, stencil, silkscreen, photo silkscreen, and mono-print. They utilize processes such as etching, relief, and lithography to explore a variety of ideas and problems. Students reflect upon and refine their work; explore cultural and historical connections; analyze, interpret, theorize, and make informed judgements about artwork and the nature of art; relate art to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills. Students utilize the resources of art museums, galleries, and studios, and identify art related careers.

Visual Design

DIGITAL DESIGN I-I

Full year course, 1 credit per semester – *Prerequisites: 1st semester: Introduction to Two-Dimensional Art and a passing grade in Advanced Two-Dimensional Art* (DOE Course Code: 4082)

Digital Design is an introduction to multimedia artistic production and aesthetics through a blend of art and digital technology. Students learn to use software effectively and creatively as a tool of artistic expression and communication. They create digital design and artwork incorporating a variety of techniques including: drawing with digital stylus pens and tablets, digital photography, scanned imagery, vector graphics, fonts, animation, video, and three-dimensional rendering. Students reflect on the outcome of studio experiences, explore contemporary and historical connections, write about processes, and participate in group critiques and presentations of their artwork at regular intervals. Career options, college and scholarship opportunities, local museums, galleries, community resources, and correlations to other disciplines are explored throughout the year. Project assessments are based on rubrics for evaluation of participation, process, and products. Final course grades are a combination of class participation, projects, quizzes, tests, electronic portfolio work, and a final exam.

Dual Credit is available through Ivy Tech-Central Indiana (Indianapolis) course number VISC 115.

AP Studio Art

AP DRAWING: HONORS

Full ear course, 1 credit per semester – *Prerequisites:* ***Student MUST have a portfolio review and permission of instructor before enrolling in this course;*** *Introduction to Two-Dimensional Art with a passing grade in Advanced Two-Dimensional Art*
Suggested additional courses: Drawing I and II, Painting I and II, Printmaking (DOE Course Code: 4048) **I-I VISC 111 Drawing for Visualization**

This course is an intensive course designed for self-directed seniors who are seriously interested in majoring in art after high school. Students explore concept, refine craftsmanship, reflect on the outcome of studio experiences, write about processes, and participate in group critiques and presentations of their artwork at regular intervals. Career options, college and scholarship opportunities, local museums, galleries, community resources, and correlations to other disciplines are explored throughout the year. The Drawing portfolio addresses issues such as line quality, light and shade, rendering of form, composition, surface manipulation, the illusion of depth, and mark-making. Students' portfolios demonstrate skills and ideas developed, refined, and applied throughout the course to produce visual compositions. Second semester students will submit a culminating portfolio of 15 to 20 college-level artwork and an artist's statement explaining how your portfolio evolved throughout the course. This class may lead to AP credit in Drawing if students choose to take the College Board exam. If for any reason students choose not to take the AP College Board exam, they may choose to apply for Ivy Tech Dual Credit in VISC 111 Drawing for Visualization.

AP 2-D Art AND DESIGN: HONORS

Full year course, 1 credit per semester – *Prerequisites:* ***Student MUST have a portfolio review and permission of instructor before enrolling in this course;*** *Introduction to Two-Dimensional Art and a passing grade in Advanced Two-Dimensional Art*
Suggested additional courses: Drawing I and 2, Digital Design, Printmaking and/or Photography (DOE Course Code: 4050)

This course is an intensive course designed for self-directed seniors who are seriously interested in majoring in art after high school. Students explore concept, refine craftsmanship, reflect on the outcome of studio experiences, write about processes, and participate in group critiques and presentations of their artwork at regular intervals. Career options, college and scholarship opportunities, local museums, galleries, community resources, and correlations to other disciplines are explored throughout the year. Second semester students will submit a culminating portfolio of 15 to 20 college-level artworks and an artist's statement explaining how your portfolio revolved throughout the course. This class may lead to AP credit in 2-D design if students choose to take the College Board exam.

AP 3-D Art AND DESIGN: HONORS

Full year course, 1 credit per semester – *Prerequisites:* ***Student MUST have a portfolio review and permission of instructor before enrolling in this course;*** *Introduction to Two-Dimensional Art and a passing grade in Advanced Two-Dimensional Art*
Suggested additional courses: Drawing I, 2 or more semesters in Ceramics, Fiber Arts, Jewelry or Sculpture; and 2 years of study in Ceramics, Fiber Arts, or Sculpture (DOE Course Code: 4052)

This course is an intensive course designed for self-directed seniors who are seriously interested in majoring in art after high school. Students explore concept, refine craftsmanship, reflect on the outcome of studio experiences, write about processes, and participate in group critiques and presentations of their artwork at regular intervals. Career options, college and scholarship opportunities, local museums, galleries, community resources, and correlations to other disciplines are explored throughout the year. The 3-D Design portfolio involves decision making about how to use the elements and principles of art as they relate to the integration of depth, space, volume, and surface, either actual or virtual. Students" portfolios demonstrate skills and ideas developed, refined, and applied throughout the course to produce visual compositions. Second semester students will submit a culminating portfolio of 15 to 20 college-level artworks and an artist's statement explaining how your portfolio evolved throughout the course. This class may lead to AP credit in 3-D Design if students choose to take the College Board exam.

BUSINESS

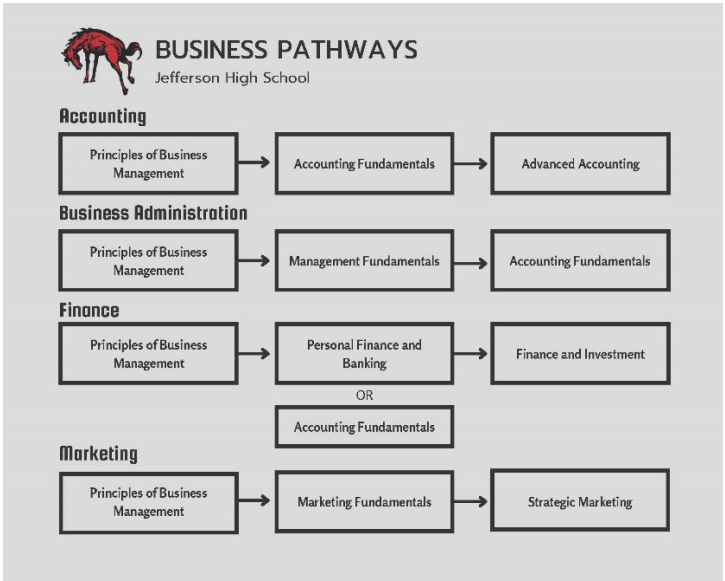
COURSES:

	Grade Level			
Accounting Fundamentals		10	11	12
Advanced Accounting			11	12
Finance and Investment			11	12
Jobs for Americas Graduates			11	12
⧓ Management Fundamentals		10	11	12
⧓ Marketing Fundamentals		10	11	12
Personal Finance and Banking		10	11	12
Personal Financial Responsibility	9	10	11	12
⧓ Principles of Business Management	9	10	11	
Strategic Marketing			11	12
Work Based Learning Capstone				12

*PATHWAYS AT JHS:

Accounting:				
⧓ Principles of Business Management	9	10	11	
Accounting Fundamentals		10	11	12
Advanced Accounting			11	12
Business Administration:				
⧓ Principles of Business Management	9	10	11	
⧓ Management Fundamentals		10	11	12
Accounting Fundamentals		10	11	12
Finance:				
⧓ Principles of Business Management	9	10	11	
Personal Finance and Banking		10	11	12
OR Accounting Fundamentals		10	11	12
Finance and Investment			11	12
Marketing:				
⧓ Principles of Business Management	9	10	11	
⧓ Marketing Fundamentals		10	11	12
Strategic Marketing			11	12

⧓ Dual Credit available through Ivy Tech
* Completing a pathway satisfies the ***Postsecondary-Ready Competencies*** *graduation requirement*



ACCOUNTING FUNDAMENTALS
(ACCT FUND)

Full year course, 1 credit per semester – *Prereq(s)/Co-Req(s): Principles of Business Management* (DOE Course Code: 4524)

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

ADVANCED ACCOUNTING
(ADV ACC)

Full year course, 1 credit per semester – *Prereq(s)/Co-Req(s): Principles of Business Management; Accounting Fundamentals*
(DOE Course Code: 4522)

Advanced Accounting expands on the Generally Accepted Accounting Principles (GAAP) and 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.

FINANCE AND INVESTMENT
(FIN INVEST)

Full year course, 1 credit per semester – *Prereq(s)/Co-Req(s): Principles of Business Management; Personal Finance and Banking or Accounting Fundamentals (DOE Course Code: 5258)*

Finance and Investment addresses the need of schools in areas that have workforce demand in the finance industry. It analyzes and synthesizes high-level skills needed for a multitude of career in the banking and investment industry. Students learn banking, investments, and other finance fundamentals and applications related to financial institutions, business and personal financial services, investment and securities, risk management products, and corporate finance.

JOBS FOR AMERICAS GRADUATES
(JAG)

Full year course, 1 credit per semester, may be repeated – *Prerequisites: Interview by Panel* (DOE Course Code: 0509)

JAG-Indiana (Jobs for America's Graduates) is a national curriculum that is designed to support students' steps toward graduation based on developing employability skills. The curriculum is centered in core competencies that assure success in the labor market. Course activities provide opportunities for students to practice the skills needed to enter the job market. Career counseling, mentoring, and classroom instruction is provided by the JAG specialist.

MANAGEMENT FUNDAMENTALS ⧓
(MGMT FUND)

Full year course, 1 credit per semester – *Prereq(s)/Co-Req(s): Principles of Business Management* (DOE Course Code: 7143)

Management Fundamentals describes the functions of managers, including the management of activities and personnel. Describes the judicial system and the nature and sources of law affecting business.

Studies contracts, sales contracts with emphasis on Uniform Commercial Code Applications, remedies for breach of contract and ort liabilities. Examines legal aspects of property ownership, structures of business ownership, and agency relationships

MARKETING FUNDAMENTALS I
(MRKT FUND)

Full year course, 1 credit per semester – *Prereq(s)/Co-Req(s): Principles of Business Management* (DOE Course Code: 5914)

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

PERSONAL FINANCE AND BANKING
(PERSON FIN/BNK)
Full year course, 1 credit per semester – *Prereq(s)/Co-Req(s): Principles of Business Management* (DOE Course Code: 7150)

Personal Finance and Banking emphasizes management of individual financial resources for growth and maintenance of personal wealth. Covers home buying and mortgage financing, installment financing, life and health insurance, securities, commodities and other investment opportunities. Students will gain an overview of banking industry and the financial services provided by banks for individuals and businesses.

PERSONAL FINANCIAL RESPONSIBILITY
(PRSFINRSP)

1 semester course, 1 credit, offered both semesters – *Prerequisites: None* (DOE Course Code: 4540)

Getting out of high school and ready to be on your own? How can you get a credit card? Are you eligible for a car loan? Is insurance necessary? What types of investments are secure?

This course focuses on personal financial planning for all individuals. To provide a basis for avoiding financial pitfalls, students will learn financial concepts and principles such as: financial responsibility and decision making, relating income and careers, financial planning and money management, managing credit and debit cards, risk management and insurance, and saving and investing.

Personal Financial Responsibility fulfills the state Financial Literacy Education (FLE) requirement for graduation.

PRINCIPLES OF BUSINESS MANAGEMENT I
(PRIN BUS)

Full year course, 1 credit per semester – *Prereq(s)/Co-Req(s): None* (DOE Course Code: 4562)

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

STRATEGIC MARKETING
(STRT MRKT)

Full year course, 1 credit per semester – *Prerequisites: Principles of Business Management; Marketing Fundamentals* (DOE Course Code: 5918)

Strategic Marketing builds upon the foundations of marketing and applies the functions of marketing at an advanced level. Students will study the basic principles of consumer behavior and examine the application of theories from psychology, social psychology, and economics. The relationship between consumer behavior and marketing activities will be reviewed.

WORK BASED LEARNING CAPSTONE
(WBL)

Full year course, 1 related class credit per semester, 1-2 work credits per semester – *Prerequisites: Instructor approval* (DOE Course Code: 5974)

Work Based Learning Capstone is a senior internship program that provides students an opportunity to explore their career interest with on-the-job training (students must average 15 hours per week – release periods are given, schedule permitting). The *Work Based Learning Related* class includes speakers, field trips, and a curriculum in money management, financial skills, expectations and responsibilities of living on your own, reinforcing computer skills, and career exploration.

The *Work Based Learning* work program includes a variety of career interests: Administrative, Marketing/Sales/Retailing/Advertising, Finance, Business Management, Information Technology, Engineering, Architecture, Law Enforcement (Public Safety and Security), Automotive, Veterinarian/Animal Care, and Travel and Tourism. Students who are already employed may be eligible for this program.

This “earn as you learn” program allows students to earn up to 6 credits for a full year.

CAREER AND TECHNICAL EDUCATION/GLCA

	Grade Level
Agriculture	
V # Precision Agriculture	11 12
Architecture and Construction:	
V # Construction Trades	11 12
V # Construction Trades Capstone	12
Business	
I Entrepreneurship	11 12
Education & Training	
P&I&V Education Professions	11 12
I Education Professions Capstone	12
Health Sciences:	
U # Exercise Science	12
I # Healthcare Specialist Capstone	12
I # Medical Assisting (CCMA) (includes MED TERMS & PRIN HLCR)	11 12
I # Pre-Nursing (CNA) (includes MED TERMS & PRIN HLCR)	11 12
Hospitality and Tourism:	
I # Culinary Arts and Hospitality	11 12
I # Culinary Arts and Hospitality Capstone	12
Human Services	
V # Cosmetology	12
Information Technology:	
I # Software Development	11 12
V # Networking & Cybersecurity	11 12
Manufacturing & Engineering:	
I # T.E.A.L Manufacturing (Technology, Engineering, Automation, Logistics & Operations)	11 12
I # T.E.A.L Manufacturing Capstone	12
Public Safety:	
V Criminal Justice	11 12
V Criminal Justice Capstone	12
I # Emergency Medical Services (includes MED TERMS & PRIN HLCR)	12
I # Fire and Rescue	11 12
Transportation and Logistics:	
I Automotive Service	11 12
I Automotive Service Capstone (Motorsports)	12
I # Aviation Management & Flight	11 12
P Aviation Maintenance I	11 12
Aviation Maintenance II	12
I Engineering Design and Development (Motorsports)	12
I Welding Technology	11 12
Welding Technology Capstone	12
Work-Based Learning	
Work-based Learning	11 12

CTE AT JEFFERSON HIGH SCHOOL

*Radio & TV Broadcasting:				
V Principles of Broadcasting	9	10	11	12
V Audio and Video Production Essentials		10	11	12
Mass Media Production			11	12
Work-based Learning				12
Health Sciences:				
I Medical Terminology			11	12
I Principles of Healthcare	9	10	11	12
Information Technology:				
I # Information Technology Fundamentals (2nd year TAC Shop)		10	11	12
Networking & Cybersecurity Operations			11	12
I # Principles of Computing (1st year TAC Shop)	9	10	11	12

* Radio & TV Broadcasting Pathway- satisfies the ***Postsecondary-Ready Competencies*** *graduation requirement*

I Dual Credit available through Ivy Tech
P Dual Credit available through Purdue
V Dual Credit available through Vincennes
U Dual Credit available through Indiana State University
\# Certifications offered

Agriculture

PRECISION AGRICULUTRE # V

(PRIN AG)

Full year course, 3 credits per semester, available to juniors and seniors, offered at GLCA – *Prerequisites: None (DOE Course Code: 0200/0240/0241)*

The *Precision Agriculture* course provides students the opportunity to learn automation, crop spatial variability, data analysis, differential correction, geographic information systems, global positioning systems, nutrient spatial variability, sensors, soil & water spatial variability, and telematics. Students will use industry recognized technology in the classroom setting. Equipment currently used in the classroom includes: Davis Instruments Weather Station, DJI Phantom 4 Pro, DJI Spark Drone, Drone Deploy Software, FarmBot Genesis XL, iGrow 800 Greenhouse Control, SeaPerch Robotics, Sentera High Precision Single Sensor, SMS Software, and Soil Analysis Equipment. Students will have the opportunity to connect with community agriculture partners for weekly externship experiences throughout course enrollment. Upon successful completion of the course students will obtain dual credits from Ivy Tech Community College, the Federal Aviation Administration Part 107 Certified Remote Pilots License, OSHA 10 Hour General Industry Certification, and partnerships with local industry recognized employers.

Architecture and Construction

CONSTRUCTION TRADES- CARPENTRY V

(PRIN CON TR)

Full year course, 3 credits per semester, available to juniors and seniors, offered at GLCA – *Recommended Course Prerequisite: Introduction to Construction (DOE Course Code: 0300/0301/0302)*

Construction Trades focus on classroom and lab experiences involving the formation, installation, maintenance, and repair of buildings, homes, and other structures. A history of construction, with an emphasis on future trends and career options, is also covered. This program provides instruction in reading technical drawings and transforming those drawings into physical structures. The relationship of views and details, interpretation of dimension, transposing scale, tolerance, electrical symbols, sections, materials list, architectural plans, geometric construction, three-dimensional drawing techniques, and sketching are presented as well as elementary aspects of residential design and site work. Students examine the design and construction of floor and wall systems and develop layout and floor construction skills. Blueprints and other professional planning documents are also covered. Students will develop an understanding and interpretation of the Indiana Residential Code for one and two-family dwellings and safety practices including OSHA's safety & health standards for the construction industry.

CONSTRUCTION TRADES CAPSTONE V

(CON TRD CAP)

Full year course, 3 credits per semester, available to seniors offered at GLCA – *Prerequisites: Construction Trades (DOE Course Code: 0303)*

Construction Trades Capstone builds on the formation, installation, maintenance, and repair skills learned in Construction Trades. Information on materials, occupations, and professional organizations within the industry are covered. Students will develop basic knowledge, skills, and awareness of interior trim and the installation of drywall, moldings, interior doors, cabinets, and baseboard moldings. Students will also develop exterior finishing skills. The program includes instruction on the installation of cornices, windows, doors, and various types of sidings currently used in industry. Studies will also focus on the design and construction of roof systems and the use of framing squares for traditional rafter and truss roofing.

Business

ENTREPRENEURSHIP I
(PRIN ENTR)

Full year course, 3 credits per semester, available to juniors and seniors, offered at GLCA – *Prerequisites: None (DOE Course Code: 0450/0451/0452)*

Principles of Entrepreneurship focuses on students learning about their own strengths, character and skills and how their unique abilities can apply to entrepreneurship, as well as how an entrepreneurial mindset can serve them regardless of their career path. Students will learn about the local, regional and state resources and will begin to understand and apply the entrepreneurial process. The course helps students to identify and evaluate business ideas while learning the steps and competencies required to launch a successful new venture. The course will focus on key marketing strategies particularly relevant for new ventures. Students will apply marketing concepts to entrepreneurial company challenges, which include creating and nurturing relationships with new customers, suppliers, distributors, employees and investors; and understand the special challenges and opportunities involved in developing marketing strategies "from the ground up." Small Business Operations will help students identify and evaluate the various sources available for funding a new enterprise; demonstrate an understanding of financial terminology; read, prepare, and analyze basic financial statements; estimating capital requirements and risk, exit strategies; and prepare a budget for their business, including taxes and personnel costs.

Education and Training

EDUCATION PROFESSIONS I & P & V
(PRIN TEACH)

Full year course, 3 credits per semester, offered at GLCA– *Recommended Course Prerequisite: Advanced Child Development*
(DOE Course Code: 0710/0711/0712)

Principles of Teaching 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 volunteer experience of a minimum of 20 hours is required for successful completion of this course. *Child and Adolescent Development* examines the physical, social, emotional, cognitive, and moral development of the child from birth through adolescence with a focus on the middle years through adolescence. Basic theories of child development, biological and environmental foundations of development, and the study of children through observation and interviewing techniques are explored. The influence of parents, peers, the school environment, culture and the media are discussed. An observation experience up to 20 hours may be required for completion of this course. *Teaching and Learning* provides students the opportunity to apply many of the concepts that they have learned throughout the Education Professions pathway. In addition to a focus on best practices, this course will provide an introduction to the role that technology plays in the modern classroom. Through hands-on experience with educational software, utility packages, and commonly used microcomputer hardware, students will analyze ways to integrate technology as a tool for instruction, evaluation, and management. These courses have been approved to be offered for dual credit. Students pursuing this course for dual credit are still required to meet the minimum prerequisites for the course and pass the course with a C or better in order for dual credit to be awarded.

EDUCATION PROFESSIONS CAPSTONE I
(ED PROF CAP)

Full year course, 3 credits per semester, offered at GLCA – *Prerequisites: Education Professions* (DOE Course Code 0713)

The Education Professions Capstone provides an extended opportunity for field experience to further apply concepts that have been presented throughout the pathway. Students will also have the opportunity to explore the topics of the exceptional child and literacy development through children's literature. Students will gain a deeper understanding of inclusive teaching techniques along with policies, theories, and laws related to special education. Students interested in pursuing a career in Elementary Education are encouraged to also study the benefits of using children's literature in the classroom. Before the capstone is finalized for the 2022- 2023 school year, this course may be further developed to include specific content for students interested in pursuing a career in secondary education.

Health Science

EXERCISE SCIENCE ISU
(PRIN EXER SCI)

Full year course, 3 credits per semester, 6 credits maximum offered at GLCA – *Prerequisites: None (DOE Course Code: 7320, 7321, 7322)*

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

Kinesiology will study fundamental concepts concerning the interaction of biological and mechanical aspects of the musculoskeletal and neuromuscular structures. An emphasis on practical applications of the concepts will be accomplished through an introduction to fitness training methods and modalities for developing specific conditioning effects in individuals. Laboratory sessions focus on anatomy and physiology of the musculoskeletal system and cardiovascular system, theories on fitness programming, and injury avoidance in fitness environments.

Students will learn basic human physiology relating to exercise, and how the body adapts to acute and chronic physical activity. Systems covered include cellular metabolic processes, energy systems, and the effects of exercise on the respiratory, nervous, cardiovascular, endocrine, skeletal, and muscular systems. The course will also study the basic nutritional principles needed for optimal athletic and human performance.

HEALTHCARE SPECIALIST CAPSTONE I
(HC SPEC CAP)

Full year course, 3 credits per semester- offered at GLCA – *Prerequisites: Completed CCMA, EMT or CNA* (DOE Course Code: 7255)

The capstone course will provide Healthcare students with additional knowledge and skills necessary to work in a variety of health care settings, including hospitals, doctor's offices, long-term care facilities and clinics. Students can accomplish this goal by completing coursework that will cover Medical Law and Ethics and offer additional healthcare certifications such as the Certified Clinical Medical Assistant, Emergency Medical Technician or Certified Nurse Assistant. Students will complete CCMA, EMT or CNA during year 1. This course allows students to complete a second certification and additional dual credit during the second year.

MEDICAL ASSISTING (CCMA) I
(CERT CL MED AST)

Full year course, 3 credits per semester, offered at GLCA which includes Medical Terminology – *Prerequisites: None* (DOE Course Code: 0810/0811/0813)

The *Certified Clinical Medical Assistant* course will prepare students for the National Healthcare Association CCMA exam. Instruction includes taking and recording vital signs, preparing patients for examination, patient education, and assisting the physician during the exam. The collecting and preparation of laboratory specimens and basic laboratory tests will be covered. Prepares for the administration of medication, venipuncture, ECG, and wound care. Provides a basic understanding of the clinical and administrative duties and responsibilities pertinent to medical offices. Includes instruction in medical correspondence and records, case histories of patients, filing, telephone procedures, appointment scheduling, receptionist duties, and processing mail.

PRE-NURSING (CNA) ♜ #
(HC SPEC CNA)

Full year course, 3 credits per semester, offered at GLCA which includes Medical Terminology – *Prerequisites: None* (DOE Course Code: 0810/0811/0812)

Pre-nursing is an extended laboratory experience at a clinical site designed to provide students the opportunity to assume the role of nurse assisting and practice technical skills previously learned in the classroom, including information on the health care system, employment opportunities at a variety of entry levels, an overview of the health care delivery systems, health care teams, and legal and ethical considerations. It prepares students with the knowledge, skills, and attitudes essential for providing basic care in extended care facilities, hospitals, and home health agencies under the direction of licensed nurses. These skills include recording patient medical histories and symptoms, consulting other healthcare providers, operating and monitoring medical equipment, performing diagnostic tests, teaching patients and families how to manage illness or injury, and performing general health screenings. This program also provides students with the knowledge, attitudes, and skills needed to make the transition from school to work in the field of nurse assisting, including self-analysis to aid in career selection, job seeking and job maintenance skills, personal management skills, and completion of the application process for admission into a postsecondary program. HOSA, the Health Science student organization, encourages development of leadership, communication, community service, and health care related skills.

Hospitality and Tourism

CULINARY ARTS AND HOSPITALITY ♜ #
(FD THRY NUT)

Full year course, 3 credits per semester, meets 3 blocks, offered at GLCA, recommended for junior year – *Prerequisites: Pass BOTH semesters of Principles of Culinary Arts and Hospitality* (DOE Course Code: 0721/0722/0730)

Culinary Arts and Hospitality prepares students for occupations and higher education programs of study related to the entire spectrum of careers in the food industry, including (but not limited to) food production and services; food science, dietetics and nutrition; and hospitality and tourism. Instruction and intensive laboratory experiences may include commercial applications of principles of nutritious, aesthetic, and sanitary selection, purchasing, storage, preparation, and service of food and food products; using and maintaining related tools and equipment; managing operations in food service, food science, or hospitality establishments; and related research development and testing. Intensive laboratory experiences with commercial applications are a required component of this course of study. Students will obtain culinary experience by working in the Pony Espresso and the Branding Iron laboratories or at the GLCA Restaurant "*Mise En Place"*. Students will have the opportunity to be ServSafe and ProStart certified.

CULINARY ARTS AND HOSPITALITY CAPSTONE ♜ #
(CUL ARTS CAP)

Full year course, 3 credits per semester, offered at GLCA, available to seniors – *Prerequisites: Culinary Arts and Hospitality*
(DOE Course Code 0725/0724/0731)

Culinary Arts and Hospitality Capstone: Culinary Arts prepares students for occupations and higher education programs of study related to the entire spectrum of careers in the food industry, including (but not limited to) food production and services; food science, dietetics, and nutrition; and baking and pastry arts. Major topics for this advanced course include: basic baking theory and skills, introduction to breads, introduction to pastry arts, nutrition, nutrition accommodations and adaptations, cost control and purchasing, and current marketing and trends. Instruction and intensive laboratory experiences include commercial applications of principles of nutrition, aesthetic, and sanitary selection; purchasing, storage, preparation, and service of food and food products; using and maintaining related tools and equipment; baking and pastry arts skills; managing operations in food service, food science, or hospitality establishments; providing for the dietary needs of persons with special requirements; and related research, development, and testing. Intensive laboratory experiences with commercial applications are a required component of this course of study. Student laboratory experiences may be either school-based or "on-the-job" or a combination of the two. Advanced Culinary Arts builds upon skills and techniques learned in Culinary Arts and Hospitality Management, which must be successfully completed before enrolling in this advanced course. Intensive laboratory experiences with commercial applications are a required component of this course of study. Hospitality Management Capstone allows students to explore more complex recipes, independent projects, and lead the kitchen. The Culinary Arts II students will prepare the desserts and pastries in the *"Teal Bakery"* for the GLCA restaurant "*Mise En Place"*. Students completing this program may choose to continue their culinary education by enrolling in a 2 and/or 4-year postsecondary degree program or gain employment in a variety of food service operations.

Human Services

COSMETOLOGY ♜ # (currently contracted Cosmetology school: Christina & Company Education Center)
(PRIN COSMO)

Full year course (summer before senior year and senior year), 12 total credits (6 earned during 1st semester, and 6 earned 2nd semester), offered at GLCA – *Prerequisites: Mandatory tour and meeting prior to acceptance; confirmation of initial payment toward required tuition fees (DOE Course Code: 0740/0741/0742/0745)*

Cosmetology offers an introduction to cosmetology with an emphasis on basic practical skills and theories including roller control, quick styling, shampooing, hair coloring, permanent waving, facials, manicuring, business and personal ethics, bacteriology, and sanitation. In the second semester, greater emphasis is placed on the application and development of these skills. The State of Indiana requires a total of 1500 hours of required instruction learning advanced skills in styling, hair coloring, permanent waving, facials and manicuring. Students will also study anatomy and physiology, professionalism, and salon management in relation to cosmetology. Upon completing this program and passing the State examination, students become licensed and are prepared to be employed in a salon. Students also pursue 2 and 4-year postsecondary degrees in business, fashion design, or related fields. Some students use their license to work while continuing their education.

Information Technology

SOFTWARE DEVELOPMENT ♜ #
(SOFT DEV)

Full year course, 3 credits per semester, 6 credits maximum offered at GLCA – *Prerequisites: None (DOE Course Code: 7183,7184, 7185)*

Principles of Computing provides students the opportunity to explore how computers can be used in a wide variety of settings. The course will begin by exploring trends of computing and the necessary skills to implement information systems. Topics include operating systems, database technology, cybersecurity, cloud implementations and other concepts associated with applying the principles of good information management to the organization. Students will also have the opportunity to utilize basic programming skills to develop scripts designed to solve problems. Students will learn about algorithms, logic development and flowcharting.

Website and Database Development will provide students a basic understanding of the essential Web and Database skills and business practices that directly relate to Internet technologies used in Web site and Database design and development. Students will learn to develop Web sites using Hypertext Markup Language (HTML) and Cascading Style Sheets (CSS). Additionally, students will be introduced to the basic concepts of databases including types of databases, general database environments, database design, normalization and development of tables, queries, reports, and applications. Students will be familiarized with the use of ANSI Standard Structured Query Language. Students will be introduced to data concepts such as data warehousing, data mining, and BIG Data. Students will develop a business application using database software such as Microsoft Access.

Software Development introduces students to concepts and practices of programming languages and software development. Students are introduced to algorithms and development tools used to

document/implement computer logic. Discusses the history of software development, the different types of programming such as real time processing, web/database applications, and different program development environments. Concepts will be applied using different programming languages, and students will develop and test working programs in an integrated system.

NETWORKING & CYBERSECURITY #
(INFO TEC SUP SER)

Full year course, 3 credits per semester, offered at GLCA – *Prerequisites: Information Technology Support (DOE Course Code: 7183/7180/7181)*

Students are introduced to the principles and concepts of computer networking, covering the architecture, components, and operations of routers and switches in a small network. Students learn how to configure a router and a switch for basic functionality. Students will be able to troubleshoot routers and switches and resolve common issues. The students will also explore the field of Cyber Security/Information Assurance focusing on the technical and managerial aspects of the discipline. Students will be introduced to the basic terminology, concepts, and best practices of computer/network security and the roles and responsibilities of management/security personnel. The students will learn the technologies used and techniques involved in creating a secure computer networking environment including authentication and the types of attacks against an organization.

Manufacturing and Engineering

T.E.A.L. MANUFACTURING # (Technology, Engineering, Automation, Logistics & Operations)
(PRIN ADV MAN)

Full year course, 3 credits per semester, offered at GLCA – *Prerequisites: "C" or better in Introduction to Advanced Manufacturing and Logistics or with instructor approval (DOE Course Code: 0120/0121/0122)*

T.E.A.L. Manufacturing is a course that includes classroom and laboratory experiences in Industrial Technology and Manufacturing Trends. Domains include safety and impact, manufacturing essentials, lean manufacturing, design principles, and careers in advanced manufacturing. Hands-on projects and team activities will allow students to apply learning on the latest industry technologies. The course also covers key electrical principles, including current, voltage, resistance, power, inductance, capacitance, and transformers, along with basic mechanical and fluid power principles. Topics include, types of production, production materials, machining and tooling, manufacturing planning, production control, and product distribution will be covered. Students will be expected to understand the product life cycle from conception through distribution. This course also focuses on technologies used in production processes. Basic power systems, energy transfer systems, machine operation and control will be explored. Students will be introduced to basic skills in welding, cutting and brazing, and machine tooling that are applicable in a wide variety of trade professions. Specifically, students will learn safe practices in oxyfuel and Arc welding processes along with experience in using turning, milling, and grinding applications.

T.E.A.L. MANUFACTURING CAPSTONE #
(IND MAINT CAP)

Full year course, 3 credits per semester, offered at GLCA – *Prerequisites: "C" or better in T.E.A.L Manufacturing, or with instructor approval (DOE Course Code: 0129)*

The *T.E.A.L Manufacturing Capstone* course examines the procedures for the removal, repair and installation of machine components. The methods of installation, lubrication practices, and maintenance procedures for industrial machinery are analyzed. Additionally, the course may cover the mechanical components and electrical drives in a complex mechatronic system. By understanding the inner workings of the complete system, students will learn and apply troubleshooting strategies to identify, localize and (where possible) to correct malfunctions. Preventive maintenance of mechanical elements and electrical drives as well as safety issues within the system will be discussed. This course will use lecture, lab, online simulation and programming to prepare students for C-210 Mechanical Power Systems I Certification through Smart Automation Certification Alliance (SACA).

Public Safety

CRIMINAL JUSTICE
(PRIN CR JUST)

Full year course, 3 credits per semester, offered at GLCA – *Prerequisites: None (*DOE Course Code: 0860/0861/0862)

Criminal Justice covers the purposes, functions, and history of the three primary parts of the criminal justice system: law enforcement, courts, and corrections. Demonstrates the application of specific theories to explain violent and non-violent criminal behavior on both the micro and macro levels of analysis. Additionally, this course takes a further examination of the American correctional system; the study of administration of local, state, and federal correctional agencies. The examination also includes the history and development of correctional policies and practices, criminal sentencing, jails, prisons, alternative sentencing, prisoner rights, rehabilitation, and community corrections including probation and parole.

CRIMINAL JUSTICE CAPSTONE
(CRIM JUST CAP)

Full year course, 3 credits per semester, offered at GLCA – *Prerequisites: Criminal Justice (*DOE Course Code: 0863)

The *Criminal Justice Capstone* course allows students to complete additional instruction to earn a postsecondary certificate and should include a work-based learning component such as job shadowing, internship, etc.

EMERGENCY MEDICAL SERVICES #
(EMT)

Full year course, 3 credits per semester, offered at GLCA – *Prerequisites: None (DOE Course Code: 0810/0811/0814)*

The *Emergency Medical Services* program prepares students to work as an Emergency Medical Technician (EMT) in a variety of environments. Those environments include but not limited to; 911 emergency care, inter-facility transportation, emergency rooms, doctor's offices and more. Students will learn to appropriately access patients, assess conditions, formulate a plan of action and administer the proper care using the appropriate equipment/medications per protocol. Additionally, this course covers personal safety, human anatomy and physiology, legal and ethical issues, incident management, hazardous materials recognition, emergency vehicle operation, and much more. The course also requires laboratory practice and clinical observation. Labs will be conducted regularly and students will gain additional experience in clinical observations in the emergency room and riding along with Tippecanoe Emergency Ambulance Service. Successful completion of the course will allow the student to sit for testing with the National Registry of Emergency Medical Technicians (NREMT). Successful certification with NREMT will allow the student to receive an EMT license/certification in most US states and all branches of the military.

FIRE AND RESCUE #
(PRIN PS HAZ AWR)

Full year course, 3 credits per semester, offered at GLCA – *Prerequisites: Student must be 17 years old by March of attending school year. (DOE Course Code: 0850/0851/0852)*

Every year, fires and other emergencies take thousands of lives and destroy property worth billions of dollars. Firefighters and emergency services workers help protect the public against these dangers by rapidly responding to a variety of emergencies. They are frequently the first emergency personnel at the scene of a traffic accident or medical emergency and may be called upon to put out a fire, treat injuries or perform other vital functions. The *Fire and Rescue* curriculum may include five Indiana state fire certifications: (1) Mandatory, (2) Firefighter I, (3) Firefighter II, (4) Hazardous Materials Awareness, (5) Hazardous Materials Operations.

AUTOMOTIVE SERVICES ♜
(PRIN AUTO SER)

Full year course, 3 credits per semester, offered at GLCA – *Prerequisites: None* (DOE Course Code: *0370/0371/0372)*

Automotive Services is a one-year course that encompasses the sub topics of NATEF/ASE identified areas of Electrical Systems, Steering & Suspension, Braking Systems. Specific projects within the class focus on the introduction of automotive systems through the designing and building of a go kart, shop tours, designing an automotive shop business plan, and hands-on work on full size vehicles in the following areas; brakes, steering, suspension, and electrical. This course meets the NATEF program certifications for the three primary areas offered in this course. Mathematical skills will be reinforced through precision measuring activities and cost estimation/calculation activities. Scientific principles taught and reinforced in this course include the study of viscosity, friction, thermal expansion, and compound solutions. Written and oral skills will also be emphasized to help students communicate with customers, colleagues, and supervisors.

AUTOMOTIVE SERVICES CAPSTONE (Motorsports) ♜
(AUTO SRV CAP)

Full year course, 3 credits per semester, offered at GLCA – *Prerequisites: Automotive Services (*DOE Course Code: 0373) (Auto Tech Pathway)

Automotive Services Capstone is a one-year course that encompasses the sub topics of the NATEF/ASE identified areas of Engine Fundamentals/Performance and Driveline Service. Specific projects within the class focus on the automotive engine, specifically tearing down and rebuilding engines, learning the fundamentals of vehicle drivelines (transmissions, differentials, etc.) Students will also work in a hands-on environment designing, funding, building, and testing their Electrical Vehicle (EV) Grand Prix electric racing karts and their Super Mileage Vehicle While also competing in State and National competitions in the Fall and Spring semesters. This course meets the NATEF program certifications for the two primary areas offered in this course. Mathematical skills will be reinforced through precision measuring activities and cost estimation/calculation activities. Scientific principles taught and reinforced in this course include the study of viscosity, friction, thermal expansion, and compound solutions. Written and oral skills will also be emphasized to help students communicate with customers, colleagues, and supervisors.

AVIATION MANAGEMENT & FLIGHT ♜ #
(PRIN AVI MAN)

Full year course, 3 credits per semester, offered at GLCA – *Prerequisites: None (*DOE Course Code: 0390/0391/0392)

Aviation Management & Flight provides students with a broad-based introduction to the field of aviation. Course activities include: familiarization with aviation technology; a historic overview of the field of aviation; exploration of the current aviation environment and careers and employment opportunities in the field. Topics are focused on aircraft manufacturing, airline operations, general aviation, air-freight, airport management, and government service. Additional topics covered include: aviation safety, human factors, regulations, and certification. This course is designed to enhance the students' knowledge of the pertinent areas of aircraft basic science that comprise the scientific fundamentals applied in all areas of the aviation industry. The fundamental areas of the federal aviation regulations, pertinent to aviation operations, are also introduced in this course.

AVIATION MAINTENANCE I ♚
(AV MAINT I)

Full year course, 3 credits per semester, offered at GLCA – *Prerequisites: None (*DOE Course Code: 5520)

Aviation Maintenance I is a comprehensive course that familiarizes the student with Federal Aviation Regulations, weight and balance, ground operation, maintenance forms and records, non-destructive \testing methods, aircraft paint and refinishing systems and the basics of aircraft welding. The course also covers various onboard systems including cabin atmospheric control systems, pressurization and fire detection/extinguishing systems. This course familiarizes students with the inspection, damage evaluation and repair of composite and wood structures, windows and fabric covering systems used on aircraft. This course may lead to FAA Part 147 Powerplant Certification.

AVIATION MAINTENANCE II
(AV MAINT II)

Full year course, 3 credits per semester, offered at GLCA – *Prerequisites: Aviation Maintenance I (*DOE Course Code: 5522)

Aviation Maintenance II builds on concepts learned in Aviation Maintenance I. The course provides a deeper focus on testing methods, aircraft systems and engine maintenance and repair procedures. The course also covers inspection and damage evaluation and compliance with applicable FAA regulations.

ENGINEERING DESIGN AND DEVELOPMENT (Motorsports) ♜
(ENG DES DEV)

Full year course, 3 credits per semester, offered at GLCA – *Prerequisites: Principles of Engineering (DOE Course Code: 0370/0371/0628)* (Engineering Pathway)

Engineering Design and Development is a one-year course that specializes in modern design and engineering processes with a focus on creative problem solving. This hands-on, student-driven course allows the students to develop skills in multiple disciplines such as mechanical and electrical engineering, fabrication, automotive technology, physics, product research, project management, and business management all while focusing on the world of motorsports and alternative energy. Students will work in a hands-on environment designing, funding, building, and testing their Electrical Vehicle (EV) Grand Prix electric racing karts and their Super Mileage Vehicle While also competing in State and National competitions in the Fall and Spring semesters. Students will also be receiving 4 credits in Automotive Services Technology I and 2 credits in Engineering Design and Development.

WELDING TECHNOLOGY ♜
(PRIN WEL TCH)

Full year course, 3 per semester, offered at GLCA – *Prerequisites: None* (DOE Course Code: 0140/0141/0142)

Students will learn many types of welding processes including Shielded Metal Arc, Gas Metal Arc, Gas Tungsten Arc, Plasma Arc, and others. Course work will include interpretation of welding blueprints, electrical fundamentals for welding, metallurgy, and safety requirements.

WELDING TECHNOLOGY CAPSTONE
(WELD TECH CAP)

Full year course, 3 per semester, offered at GLCA – *Prerequisites: Required Welding Technology* (DOE Course Code: 0143)

Welding Capstone builds on the skills covered in Welding. Emphasis is placed on safety at all times. OSHA standards and guidelines endorsed by the American Welding Society (AWS) are used. Instructional activities emphasize properties of metals, safety issues, blueprint reading, electrical principles, welding symbols, and mechanical drawing through projects and exercises that teach students how to weld and be prepared for college and career success.

WORK BASED LEARNING CAPSTONE
(WBL)

Full year course, 3 credits per semester, offered at JHS/GLCA – *Prerequisites: Instructor approval* (DOE Course Code: 5974)

Work Based Learning Capstone is a senior internship program that provides students an opportunity to explore their career interest with paid or unpaid on-the-job training (students must average 15 hours per week – release periods are given, schedule permitting).

The *Work Based Learning* work program includes a variety of career interests: Administrative, Marketing/Sales/Retailing/Advertising, Finance, Business Management, Information Technology, Engineering, Architecture, Law Enforcement (Public Safety and Security), Automotive, Veterinarian/Animal Care, and Travel and Tourism. Students who are already employed may be eligible for this program. This "earn as you learn" program allows students to earn up to 6 credits for a full year.

CTE AT JEFFERSON HIGH SCHOOL

Arts, Audio-Video Technology Communications

PRINCIPLES OF BROADCASTING
(PRIN BROAD)

Full year course, 1 credit per semester – *Prerequisites: None*
(DOE Course Code: 7139)

The purpose of the *Principles of Broadcasting* course is to 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
(AUD VID PROD)

Full year course, 1 credit per semester – *Prerequisites: Principles of Broadcasting* (DOE Course Code: 7306)

Audio and Video Production Essentials 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.

MASS MEDIA PRODUCTION
(MASS MED PROD)

Full year course, 1 credit per semester – *Prerequisites: Principles of Broadcasting; Audio and Video Production Essentials* (DOE Course Code: 7307)

Mass Media Production will focus on the study of theory and practice in the voice and visual aspects of radio and television performance. In addition, this course 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.

Health Science

MEDICAL TERMINOLOGY
(MED TERMS)

Full year course, 1 credit per semester, offered at JHS – *Prerequisites: Successful completion of a year of Biology with a grade of "C" or better each semester* (DOE Course Code: 0811)

This course prepares students with language skills necessary for effective, independent use of health and medical reference materials. It includes the study of health and medical abbreviations, signs, symbols, and Greek and Latin word part meanings taught within the context of body systems. This course builds skills in pronouncing, spelling, and defining new words encountered in verbal and written information. Students have the opportunity to acquire skills in interpreting medical records and communications accurately and logically. Emphasis is on forming a foundation for a medical vocabulary including meaning, spelling, and pronunciation.

This course is offered independently or as a component of the Medical Assisting (CCMA) & Pre-Nursing (CNA) courses at GLCA.

PRINCIPLES OF HEALTHCARE
(PRIN HLCR)

Full year course, 1 credit per semester, offered at JHS – *Prerequisites: Must have passed full year of Biology (DOE Course Code: 0810)*

Principles of Healthcare presents information on the health care system and employment opportunities at a variety of entry levels. Includes an overview of health care development, how health delivery systems are organized, legal and ethical considerations of health care delivery, and an overview of various health care professions. Students are encouraged to explore health professions through assignments, observations and interviews.

Information Technology

INFORMATION TECHNOLOGY FUNDAMENTALS #
(INFO TECH FUN)

Full year course, 1 credit per semester, offered at JHS – *Prerequisites: Principles of Computing* (DOE Course Code: *0461)*

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

NETWORKING & CYBERSECURITY OPERATIONS
(INFO TEC SUP SER)

Full year course, 1 credit per semester– *Prerequisites: Principles of Computing; Information Technology Fundamentals (DOE Course Code: 7181)*

Advanced Information Technology will provide students with the fundamental concepts in networking and cybersecurity. Students are introduced to the principles and concepts of computer networking, covering the architecture, components, and operations of routers and switches in a small network. Students learn how to configure a router and a switch for basic functionality. Students will be able to troubleshoot routers and switches and resolve common issues. The students will also explore the field of Cyber Security/Information Assurance focusing on the technical and managerial aspects of the discipline. Students will be introduced to the basic terminology, concepts, and best practices of computer/network security and the roles and responsibilities of management/security personnel. The students will learn the technologies used and techniques involved in creating a secure computer networking environment including authentication and the types of attacks against an organization.

PRINCIPLES OF COMPUTING #
(PRIN COMP INFO)

Full year course, 1 credit per semester– *Prerequisites: Approval of instructor (DOE Course Code: 0460)*

Principles of Computing provides students the opportunity to explore how computers can be used in a wide variety of settings. The course will begin by exploring trends of computing and the necessary skills to implement information systems. Topics include operating systems, database technology, cybersecurity, cloud implementations and other concepts associated with applying the principles of good information management to the organization. Students will also have the opportunity to utilize basic programming skills to develop scripts designed to solve problems. Students will learn about algorithms, logic development and flowcharting.

ENGLISH

All students must take 8 semesters of English to graduate. Courses are offered in sequence. Since each course is designed to build upon skills mastered in previous courses, students should take the courses in the prescribed sequence (see chart below). All freshmen and sophomore courses focus on writing and language skills, but also integrate literature, oral communication, reading, and research. Juniors take an American literature course, which integrates all of the language arts strands. Seniors take two semesters of English 12 or two semesters of senior college prep English; both programs allow the students to fulfill college admissions requirements. The English 12 courses integrate writing and literature studies and should be taken one each semester unless the student is a mid-year graduate. The senior college prep offerings include a required one-semester college prep composition course and one of two one-semester literature offerings: World Literature or English Literature. College prep seniors should take one course per semester unless planning to graduate after first semester. Elective courses are also available for students at all grade levels; electives do not replace any of the required 8 semesters of English.

Courses are offered in sequence. Since each course is designed to build upon skills mastered in previous courses, students should take the courses in the prescribed sequence. English offerings include occupational tech prep (OTP), Academic (A), college prep (CP), honors (H), and advanced placement (AP) courses.

Grade Level

Required Courses:

- Freshman Courses:
  - English 9 A
  - English 9 OTP
  - English 9 H – Self and Society
- Sophomore Courses:
  - English 10 A
  - English 10 OTP
  - English 10 H – Universality and Diversity
- Junior Courses:
  - English 11 A
  - English 11 OTP
  - English 11 CP
  - English 11 H
  - ⧓ English 11 Dual Credit
- Senior Courses:
  - English 12 Communication and Exploration
  - English 12 OTP
  - Composition
  - English Literature
  - World Literature
  - English Language and Composition, AP

(English Literature and Composition, AP course content will be provided within the English Language and Comp course to those students wishing to take the AP Exam)

Elective Courses:

⧓ Advanced Speech and Communication			11	12
Creative Writing 1			11	12
Developmental Reading	9	10	11	12
English as a New Language: Level 1, 2	9	10	11	12
Etymology (recommended for college-bound sophomores and juniors)		10	11	12
Film Literature			11	12
Journalism	9	10	11	12
Advanced Journalism	9	10	11	12
Student Publications	9	10	11	12
Creative Writing 2 Student Publications Literary Magazine			11	12
Theatre Arts	9	10	11	12
Theatre Production		10	11	12
Theatre Arts, Special Topics: Stagecraft			11	12
Theatre Arts Special Topics- Devised Theatre			11	12
Advanced Acting			11	12

English Department Required Course Descriptions

ENGLISH 9

Full year course, 1 credit per semester – *Prerequisites: English 9, none; English 9 OTP, test scores and teacher recommendation* (DOE Course Code: 1002)

English 9 is taught in different classes based on learning styles and student skill level. It is designed to help students establish a foundation in language arts that will enable them to succeed in future English classes. By providing students with the opportunity to study and practice the five language arts strands, the course will reinforce skills they have already learned as well as introduce new ones. This holistic approach to the study of English enables students to see the relationships between reading, writing, and speaking. *English 9* students further develop their use of language as a tool for learning and thinking and as a source of pleasure. Students practice identifying, analyzing, and composing with different elements, structures, and genres of written and oral language. An additional emphasis of each course is to strengthen students' performance of the essential skills in language arts determined by the state of Indiana and measured on end of course assessments. *English 9 Occupational Tech Prep (OTP)* is team taught by an English teacher and a special education teacher.

ENGLISH 9 H - SELF AND SOCIETY

Full year course, 1 credit per semester – *Prerequisites: Students entering the honors program must have earned an "A" in both semesters of their 8th grade English course and be recommended by their English 8 teacher; students continuing in the honors program must have earned at least a "B" the previous year* (DOE Course Code: 1002)

The *English 9 Honors (H)* course is part of the corporation's gifted and talented program. It will focus on the reading and analysis of literature and the paralleling of these works to the student's role in society. Because this course prepares students for AP and college requirements, it incorporates rigorous study in terms of depth and expectations. **A summer assignment prepares for the course theme; information on this will be available in the guidance office by May 1.** The student must complete this assignment by the due date to remain enrolled in the course.

ENGLISH 10

Full year course, 1 credit per semester – *Prerequisites: Participation in the earlier courses in this sequential program (DOE Course Code: 1004)*

English 10 is taught in different classes based on learning styles and student skill level. English 10 Occupational Tech Prep (OTP) is team taught by an English teacher and a special education teacher. English 10 focuses upon building and expanding skills learned in English 9, while also introducing new concepts that will aid in the students' decisions to take Academic or College Prep English during their junior year. The course curriculum achieves this by integrating the five language arts strands through the study of a variety of literature. Students will read non-fiction articles and essays, short stories, poetry, and novels. They will also practice and develop both written and oral communication skills. In addition, the English 10 course provides students with practical and working knowledge of standards and skills recommended by the Indiana Department of Education.

ENGLISH 10 H - UNIVERSALITY AND DIVERSITY

Full year course, 1 credit per semester – *Prerequisites: Students entering the honors program must have earned an "A" in both semesters of English 9 and be recommended by their English 9 teacher; students continuing in the honors program must have maintained at least a "B" on the weighted scale in English 9 H* (DOE Course Code: 1004)

This honors course focuses on world literature. The grammar, vocabulary, and portfolio sequences from *English 9 H* are continued. Because this course is one of a series of English courses preparing students for the senior AP English exam, rigorous study will be expected. Students should have above average reading and writing skills and be able to handle deadlines. **A summer reading selection and project are also required; information on this will be available in the guidance office by May 1.** This project must be completed by the due date for students to remain enrolled in the course.

ENGLISH 11

Full year course, 1 credit per semester – *Prerequisites: English 11, participation in the earlier courses in this sequential program); English 11 OTP, participation in the earlier courses in this sequential program or teacher recommendation; English 11 CP, 4-year college-bound juniors; students must have completed the prior four semesters of English (9 and 10) with a "C" or better* (DOE Course Code: 1006)

English 11 is taught in different classes based on learning styles and student skill level. Students move from predominantly analyzing and using the elements of written language to making judgments based on those analyses. An emphasis on the development of writing, speaking, reading, and researching information to enhance the students' appreciation of America's rich and diverse culture is also incorporated in the curriculum. Through the integrated study of literature, composition, and oral communication, *English 11* students further develop their use of language as a tool for learning and thinking and as a source of pleasure. Each *English 11* course also incorporates a literary canon, a survey of American literature from different periods.

English 11 Occupational Tech Prep (OTP), an integrated English course based on Indiana's Academic Standards for English/Language Arts for Grade 11, is a study of literature, composition, and oral communication across a wide variety of genres. Placement is determined by previous experience, achievement test scores and teacher recommendation. The course includes the objectives of English 11, but the pace is slowed, that materials are more appropriate for the reading and learning styles of the students, and class sizes are kept small to facilitate individualized instruction.

English 11 College Prep (CP) is designed to prepare students who are planning to attend a college or university in pursuit of a four-year degree after high school to succeed at the college level; thus, the course fosters an academic atmosphere for studying and practicing reading, writing, thinking, speaking, research, and test taking skills appropriate for future college success.

ENGLISH 11 Dual Credit

Full year course, 1 credit per semester – *Prerequisites: Completion of English 10, a "C" or better in that course is recommended* (DOE course code: 1006)

The concepts and skills covered in English 11 and English 11 CP are the same in English 11DC; however, the material is covered at a quicker pacing than 11CP. In addition to the material covered in 11CP, English 11 DC is a composition-based course designed to develop students' abilities to craft, organize, and express ideas clearly and effectively in their own writing. This course incorporates critical reading, critical thinking, and the writing process, as well as research and the ethical use of sources in writing for the academic community. Extended essays, including a researched argument, are required.

ENGLISH 11 H - EXPLORING THE AMERICAN DREAM

Full year course, 1 credit per semester – *Prerequisites: Students entering the honors program must have earned an "A" in both semesters of English 10 and be recommended by their English 10 teacher; students continuing in the honors program must have maintained at least a "B" on the weighted scale in English 10 H* (DOE Course Code: 1006)

The *English 11 Honors (H)* course is a year-long chronological and thematic study of literature in the United States from the early settlement period to contemporary times. Activities encourage students to view their nation's literature as a reflection of its history and culture and to interpret major themes and conflicts that exist in American society today. The grammar, vocabulary, and writing sequences from *English 9 H* and *10 H* are continued. Because this course is one of a series of English courses preparing students for the senior AP English exam, rigorous study will be expected. **Also, a summer assignment is required. Information on this is available by May 1 in the guidance office.** This assignment must be completed by the due date for students to remain enrolled in the class.

ENGLISH 12 OTP

Full year course, 1 credit per semester – *Prerequisites: Participation in the earlier courses in this sequential program or teacher recommendation* (DOE Course Code: 1008)

English 12 Occupational Tech Prep (OTP), an integrated English course based on Indiana's Academic Standards for English/Language Arts for Grade 12, is a study of language, literature, composition, and oral communication across a wide variety of genres. Placement is determined by previous experiences, achievement test scores, and teacher recommendation. The course includes the objectives of English 12, but the pace is slowed, the materials are more appropriate to the reading levels and learning styles of the students, and class sizes are kept small to facilitate individualized instruction. The course includes a focus on workplace skills. Students will write a resume, write a research paper about their chosen career, and attend the Hire Me Event held in second semester, among other workplace skills assignments.

ENGLISH 12 COMMUNICATION AND EXPLORATION

(ENG 12 Com & ENG 12 Exp)

Companion courses, 1 taken each semester, 1 credit each semester – *Prerequisites: Candidates for these courses have participated in English 9, 10, and 11; after high school they are planning to enter the workforce, to join an apprenticeship program, the military, or to attend a 2-year degree institution* (DOE Course Code: 1008)

English 12, an integrated English course based on *Indiana's Academic Standards for English/Language Arts* for Grade 12, is a study of language, literature, composition, and oral communication focusing on an exploration of point of view or perspective across a wide variety of genres. Students use literary interpretation, analysis, comparisons, and evaluation to read and respond to representative works of historical or cultural significance for Grade 12 in contemporary literature. Students compose a variety of written products including responses to literature, essays, research papers, resumes, and letters.

English 12 Communication focuses on developing lifelong communication skills, particularly those needed in the workplace, and on developing interpersonal relationship skills.

English 12 Exploration focuses on the development of the senior project based on a topic of student interest. The four areas of focus are the research paper, the physical project, the project portfolio, and the community presentation. The senior projects allow students to demonstrate their skills based on their entire learning experience.

COMPOSITION

1 semester course, 1 credit, offered both semesters – *Prerequisites: Students must have completed English 11 CP with at least a "C" to enroll* (DOE Course Code: 1090)

Each senior planning to enter a 4-year college must take this 1-semester course ALONG WITH one of the two 1-semester courses, *English Literature CP or World Literature CP*

English 12 College Prep (CP) Composition is a course designed to prepare students for the rigors of writing at 4-year colleges. The class is structured around the beliefs that every student can write and that every student can improve as a writer. Focal points of the course are a workshop approach, writing conferences, integration of the writing process with an emphasis on revision, and the development of a final portfolio that showcases the writer's learning. The course experiences are intended to help students to see themselves as writers and to develop the strategies and skills which will enable them to be independent writers in the future.

ENGLISH LITERATURE

1 semester course, 1 credit, offered both semesters – *Prerequisites: Students must have completed English 11 CP with at least a "C" to enroll* (DOE Course Code: 1030)

English Literature CP or World Literature CP: Each senior planning to enter a 4-year college must take one of these two 1-semester courses, ALONG WITH a semester of *Composition CP*.

English 12 College Prep (CP) English Literature is designed to help prepare college-bound students for their futures, both in educational arenas and as well-rounded human beings. Exposure to the study of literary works by well-known English authors throughout history and in the present provides the opportunity for students to further their ability to read and interpret various texts, to develop analytical thinking through discussions and assignments, and to contemplate various opinions and ideas. A unique aspect of the course is allowing the students to select an author to be the focal point of the three required writings.

WORLD LITERATURE

1 semester course, 1 credit, offered both semesters – *Prerequisites: Students must have completed English 11 CP with at least a "C" to enroll* (DOE Course Code: 1052)

World Literature CP or English Literature CP: Each senior planning to enter a 4-year college must take one of these two 1semester courses, ALONG WITH a semester of *Composition CP*.

English 12 College Prep (CP) World Literature is designed to help prepare college-bound students for their futures, both in educational arenas and as well-rounded human beings. Exposure to the study of literary works by well-known world authors throughout history and in the present provides the opportunity for students to further their ability to read and interpret various texts, to develop analytical thinking through discussions and assignments, and to contemplate various opinions and ideas. World Literature surveys literature written by major authors of the Western and Eastern worlds. Integrated into the study of World Literature are class and group discussions and written interpretations. A student-selected author-research component will also be required.

ENGLISH LANGUAGE AND COMPOSITION, AP

Full year course, 1 credit per semester – *Prerequisites: Students entering the honors program must have earned an "A" in both semesters of English 11 CP and be recommended by their English 11 CP teacher; students continuing in the honors program must have maintained at least a "B" on the weighted scale in English 11 H* (DOE Course Code: 1056)

English Language and Composition Advanced Placement (AP) is a course based on the content established by the College Board. Students enrolled in the course become skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts. They become skilled writers who compose in a variety of forms – narrative, exploratory, expository, argumentative – and on a variety of subjects.

Students are expected to embark on a year-long senior project involving both a research component and an action component. In April, the culminating exercise is a day-long presentation of all projects before fellow students, faculty, media, and community members. **A summer assignment, available in the guidance office by May 1, is required.** This assignment must be completed by the due date for students to remain enrolled in the course.

STUDENTS WISHING TO TAKE THE ENGLISH LITERATURE AND COMPOSTITION AP EXAM WILL HAVE THE OPPORTUNITY TO RECEIVE CONTENT PERTAINING TO THIS TOPIC WITHIN THE ENGLISH LANGUAGE AND COMP COURSE.

Alphabetical Listing of English Department Elective Courses

ADVANCED SPEECH AND COMMUNICATION

1 semester course, 1 credit offered – *Prerequisites: Students must have completed all previous English courses with at least a "C" and be enrolled in a required English 11-12 course* (DOE Course Code: 1078)

Advanced Speech and Communication is the study and application of skills in listening, oral interpretation, media communications, research methods, oral debate, and competitive speaking. Students deliver different types of oral and multi-media presentations, including speeches to inform, to motivate, to entertain, and to persuade through the use of impromptu, extemporaneous, memorized, or manuscript delivery. The course introduces fundamental concepts and skills for effective public speaking, including audience analysis, outlining, research, delivery, critical listening and evaluation, presentational aids, and use of appropriate technology.

CREATIVE WRITING 1

1 semester course, 1 credit, offered 1st semester – *Prerequisites: Student must have completed all previous English courses with at least a "C"* (DOE Course Code: 1092)

Creative Writing 1 provides students with ample opportunities to combine literary creativity with the discipline of written discourse. Students become familiar with standard literary elements through the reading and study of published prose and poetry and are taught to use those elements in their own writing.

CREATIVE WRITING 2 STUDENT PUBLICATIONS LITERARY MAGAZINE

1 semester course, 1 credit, offered 2nd semester – *Prerequisites: Student must have successfully completed Creative Writing 1 with at least a "C" or have obtained permission to enroll after an interview with the instructor* (DOE Course Code: 1086)

Creative Writing 2 builds on the basis provided in *Creative Writing 1*, continues the study of established writers, and provides opportunities for students to write poetry and short stories. Students will produce the school literary magazine, the *Iguana*, and individual portfolios specifically for the class.

DEVELOPMENTAL READING

1 semester course, 1 credit, offered both semesters – *Prerequisites: Current or previous enrollment in English 9-12 OTP or ENL 3-4* (DOE Course Code: 1120)

Developmental Reading is a supplemental course that provides students with individualized instruction designed to support success in completing language arts course work aligned with *Indiana's Academic Standards for English/Language Arts* in Grades 9-12 and focusing on the *Reading Standards (Standards 1, 2, and 3)*. Students will gain practice in reading, analyzing, and sharing information meaningful to them personally. The strategies employed in this practice aid in comprehension and retention, leading to more success in academics. The course also develops the students' appreciation of reading as a lifelong activity.

ENGLISH AS NEW LANGUAGE

1 semester course, 1 credit (granted when the student's assessment score indicates placement in the next ENL Level and/or in a regular English course), offered both semesters – *Prerequisites: Students will be placed in the appropriate level of ENL based on their scores on the WIDA Assessment or similar assessment tool* (DOE Course Code: 1012)

English as a New Language (ENL) courses provide students with Limited English Proficiency with instruction in English that would improve their proficiency in listening, speaking, reading, and writing. Emphasis is placed on helping students to function within the school and an English-speaking society.

- One required English credit may be earned for **EACH** course level completed: ENL 1, ENL 2, ENL lab

ETYMOLOGY (SAT and ACT Preparation)

1 semester course, 1 credit, offered both semesters – *Prerequisites: None* (DOE Course Code: 1060)

Etymology is a course designed to benefit college-bound students as they prepare for attending institutions of higher learning. Emphasis is placed on preparing students for the SAT and the ACT. The students work with word parts and origins, various vocabulary systems, test-taking strategies, and study skills to help them reach their potential as scholars. Class presentations, individual and group projects, standardized tests, computer work, class participation, and daily tests are used to evaluate each student's progress.

FILM LITERATURE

1 semester course, 1 credit, offered 1st semester – *Prerequisites: Students must have completed all previous English courses with at least a "C" and be enrolled in a required English 11-12 course* (DOE Course Code: 1034)

Designed to complement traditional literature courses, *Film Literature* requires students to use visual literacy skills to discuss, analyze, and interpret film as a form of literature. A chronological selection of significant films will be studied. In a comprehensive speech component, students are given opportunities to present and discuss their ideas. Students will also have frequent writing assignments in which they explore and analyze the films shown in class. They will also complete an individual film critique over a film of their choosing and present it to the class.

JOURNALISM

1 semester course, 1 credit, offered 1st semester – *Prerequisites: Students must have received a "C" or better in previous English courses* (DOE Course Code: 1080)

Journalism is a study of the art of journalism and the profession of journalists. This course includes the process involved in (1) reporting and writing news stories, (2) the legal and social responsibilities involved in newspaper publications, and (3) the ethics of accurate and fair reporting. This course includes extensive reading of models of excellent journalistic techniques and analyzes and evaluates journalistic writing through discussions and critiques.

- This course is not a student publications course.

ADVANCED JOURNALISM

1 semester course, 1 credit, offered 2nd semester – *Prerequisites: Completion of Journalism 1 with at least a "C"* (DOE Course Code: 1080)

The content of *Journalism 2* includes writing news stories, sports articles, interviews, feature stories, and editorials. Journalistic critical thinking skills are developed as students discuss and write about international, national, state, local, and school news. The student gains practical experience in copy reading, design, and layout. The student learns about the newspaper by discussing newspaper terms, reading the newspaper, and emulating newspaper writing style. The course of study emphasizes improvement of writing skills; greater appreciation of print media, especially professional and school publications; and development of digital design skills. Students are expected to be able to design their own newspaper page by the end of the semester.

- This course is not a student publications course.

STUDENT MEDIA

1 semester course, 1 credit, offered both semesters – *Prerequisites: For the newspaper course, Journalism 1 is recommended, but may be waived by advisor/instructor for sophomores, juniors, and seniors; for the yearbook course, student must be a sophomore, junior, or senior. Journalism 1 is recommended, but may be waived by advisor/instructor. Students must also have and maintain a C or better in their previous English courses.* (DOE Course Code: 1086)

This course provides the study of and practice in gathering and analyzing information, interviewing, and note taking for the purpose of (1) writing, (2) editing, and (3) publishing for print. This course includes instruction and practice in effective journalistic writing forms and techniques as well as layout, design, and typography. *Student Publications* offers practical training in publishing the school newspaper and yearbook. Students plan, write, design, edit, publish, market, and distribute their school publications.

Student Publications: Newspaper
(STDNT N ADV)

The *Booster* attempts to follow the triple foundation of responsible journalism: balance, fairness, and good taste. Staff members apply the principles by working together daily as a team, applying the principles learned during *Journalism 1*. Members also develop and refine the interpersonal relationship skills needed as journalists. Students utilize publication skills involving desktop publishing using InDesign, CS6, and photoshop.

Student Publications: Yearbook
(STDNT Y ADV)

The *Nautilus* is produced by the students in this class. Students are taught organizational, managerial, and leadership skills in addition to production techniques in graphic design, layout, photography, and copy writing. At least a 2-year involvement in the program is recommended.

- The nature of this course allows for successive semesters of instruction at an advanced level; **students can earn one credit for each semester of enrollment**.

THEATRE ARTS

Full year course, 1 credit per semester – *Prerequisites: 1st semester: none; 2nd semester: completion of 1st semester with at least a "C"* (DOE Course Code: 4242)

Students enrolled in the 1st semester of *Theatre Arts* will read and analyze plays, create scripts and theater pieces, conceive scenic designs, and develop acting skills. These activities should incorporate elements of theater history, culture, analysis, response, creative process, and integrated studies.

Students enrolled in the 2nd semester of *Theatre Arts* (Advanced Theatre Arts) will read and analyze plays and apply criteria to make informed judgments. They will draw on events or experiences to create scripted monologues and scenes. They will create scenic designs for existing plays and will build characters through observation, improvisation, and script analysis. These activities should incorporate elements of theater history, culture, analysis, response, creative process, and integrated studies.

THEATRE ARTS, SPECIAL TOPICS: STAGECRAFT

1 semester course, 1 credit, offered 1st semester only, may be repeated up to 3 times – *Prerequisites: Students must have completed Theatre Production with at least a "C"; audition and instructor permission are required prior to enrollment* (DOE Course Code: 4254)

Students taking this course focus on a specific subject related to theatre arts, such as: Shakespeare, Children's Theatre, Directing, Arts Management, and other specialized areas of study. These activities should incorporate elements of theatre history, culture, analysis, response, creative process, and integrated studies. Additionally, students explore career opportunities in the theatre, attend and critique theatrical productions, and recognize the responsibilities and the importance of individual theatre patrons in their community.

THEATRE PRODUCTION

1 semester course, 1 credit, offered 2nd semester only, may be repeated up to 3 times – *Prerequisites: Students must have completed all previous theatre courses with at least a "C"; audition and instructor permission are required prior to enrollment* (DOE Course Code: 4248)

Students enrolled in *Theatre Production* take on responsibilities associated with rehearsing and presenting a fully mounted theatre production. They read and analyze plays to prepare for production; conceive and realize a design for a production, including set, lighting, sound and costumes; rehearse and perform roles in a production; and direct or serve as assistant director for a production. These activities should incorporate elements of theatre history, culture, analysis, response, creative process, and integrated studies. Additionally, students investigate a theatre arts career then develop a plan for potential employment or further education through audition, interview, or presentation of a portfolio. Students also attend and critique theatrical productions and volunteer to support theatre in their community.

THEATRE ARTS SPECIAL TOPICS- DEVISED THEATRE

1 semester course, 1 credit offered 1st semester – *Prerequisites: Students must have completed all previous theatre courses with at least a "C"; audition and instructor permission are required prior to enrollment* (DOE Course Code: 4254)

Students enrolled in *Theatre Arts Special Topics-Devised Theatre* focus on a specific subject related to theatre arts, specifically Devised Theatre. Students will focus on creating and demonstrating a culturally relevant, community-based theme through the creation of a specific vocabulary of movement, in-depth research of current social issues, and exploration of performance theories. Through research, exercise and collaborative creative practice, students will construct an original, movement-based theatre piece from scratch that brings student's research to life, encompassing the chosen theme, interviews and personal experiences they have brought into the devising class. This is an active learning, movement-based class that will culminate in a fully realized devised production for a live performance.

ADVANCED ACTING

1 semester course, 1 credit offered 2nd semester – *Prerequisites: Students must have completed all previous theatre courses with at least a "C"; audition and instructor permission are required prior to enrollment* (DOE Course Code: 4250)

Students enrolled in *Advanced Acting* hone in on the craft of creating characters through a more in-depth study of voice, body movement, and script analysis. Students will learn various acting techniques from Meisner to viewpoints through research, lecture and guided practice in order to perform characters through script analysis, observation, collaboration and rehearsal. These activities incorporate elements of

theatre history, culture, analysis, response, creative process and integrated studies. Additionally, students explore career opportunities in the theatre by attending plays, meeting actors and discussing their work, and becoming theatre patrons in their community. Additionally, students investigate a theatre arts career then develop a plan for potential employment or further education through audition, interview, or presentation of a portfolio. Students also attend and critique theatrical productions and volunteer to support theatre in their community.

ENGINEERING & TECHNOLOGY EDUCATION (ETE)

	Grade Level
Computers in Design & Production Construction and Communications	9 10 11 12
Computers in Design & Production for Manufacturing and Transportation	9 10 11 12
Intro to Computer Science	9 10 11 12
Computer Science I	10 11 12
Computer Science A, AP	11 12
Introduction to Construction	10 11 12
Design Fundamentals	11 12
⧫ Digital Electronics: H	10 11 12
⧫ Introduction to Engineering Design: H	9 10 11 12
⧫ Principles of Engineering: H	10 11 12
Engineering Design and Development (EDD): H	11 12
⧫ # Introduction Adv. Manufacturing & Logistics	10 11 12
Robotics Design and Innovation	11 12
Introduction to Transportation	10 11 12
Web Design	9 10 11 12

⧫ Dual Credit available from Ivy Tech (see course description)
APICS and/or MSSC certifications offered (see course description)

Alphabetical List of ETE

COMPUTERS IN DESIGN AND PRODUCTION – Construction and Communications (CC)

1 semester course, 1 credit, offered both semesters – *Prerequisites: None*
(DOE Course Code: 4800)

This course is a semester course designed to give students an overview of construction and communications. The course will be a combination of construction and communications/electrical systems, along with computer applications designed to give students a brief introduction to measurement and CAD programs that will be used as students pursue their chosen pathway. Students will use computers to design projects and learn how to use precision measurement instruments to complete simple to intermediate construction and circuitry projects. Students will also use computers to enhance their study and research skills.

COMPUTERS IN DESIGN AND PRODUCTION – Manufacturing and Transportation (MT)

1 semester course, 1 credit, offered both semesters – *Prerequisites: None*
(DOE Course Code: 4800)

This course is a one-semester course designed to give students an overview of manufacturing and transportation. The course will be a combination of manufacturing and transportation systems, along with computer applications designed to give students a brief introduction to measurement and CAD programs that will be used as students pursue their chosen pathway. Students will use computers to design projects and learn how to use precision measurement instruments. Students will also use computers to enhance their study and research skills.

INTRODUCTION TO COMPUTER SCIENCE

1 semester course, 1 credit, offered both semesters– *Prerequisites: None*
(DOE Course Code: 4803)

Intro to Computer Science provides an entry point into computer science. Through computational thinking and collaboration, students will learn the skills and processes needed to develop basic programs utilizing a text-based programming language. A small sampling of other computer science topics will also be covered.

COMPUTER SCIENCE I

Full year course, 1 credit per semester – *Prerequisites: Intro to Computer Science OR Principles of Engineering OR Instructor Approval*
(DOE Course Code: 4801)

Computer Science I challenges students to explore the limits of what computers can accomplish. In this course, students analyze and design solutions to problems using programming skills. The fundamental concepts of programming are explored through the hands-on use of computing devices. Additional topics include algorithms, debugging and verification, documentation, security and privacy, communication and collaboration, and careers. All topics are an intrinsic part of the software development lifecycle.

COMPUTER SCIENCE A, AP

Full year course, 1 credit per semester – *Prerequisites: "C" or better in Computer Science I AND Algebra I OR Instructor Approval*
(DOE Course Code: 4570)

AP Computer Science A introduces students to computer science through Java programming. Fundamental topics in this course include the design of solutions to problems, the use of data structures to organize large sets of data, the development and implementation of algorithms to process data and discover new information, the analysis of potential solutions, and the ethical and social implications of computing systems. The course emphasizes object-oriented programming and design using the Java programming language.

INTRODUCTION TO CONSTRUCTION

Full year course, 1 credit per semester – *Prerequisites: Computers in Design and Production (CC) OR Principles of Engineering OR with instructor approval*
(DOE Course Code: 4792)

Introduction to Construction is a course that will offer hands-on activities and real-world experiences related to the skills essential in residential, commercial and civil building construction. In addition, students are introduced to blueprint reading, applied math, basic tools and equipment, and safety. Students will demonstrate building construction techniques, including concrete and masonry, framing, electrical, plumbing, and dry walling. Students learn how architectural ideas are converted into projects and how projects are managed during a construction project. Students also investigate topics related to the purchase and maintenance of structures, special purpose facilities, green construction, and construction careers.

During the second semester students will continue to demonstrate building construction techniques, including concrete and masonry, framing, electrical, plumbing, dry walling, HVAC, and painting. Students learn how architectural ideas are converted into projects and how projects are managed during a construction project. Students study construction technology topics such as preparing a site, doing earthwork, setting footings and foundations, building the superstructure, enclosing the structure, installing systems, finishing the structure, and completing the site.

DESIGN FUNDAMENTALS
(DES FUND)

Full year course, 1 credit per semester – *Prerequisites: Introduction to Engineering Design OR Introduction to Construction OR Teacher Approval*
(DOE Course Code: 4834)

Design Fundamentals introduces students to fundamental design theory. Investigations into design theory and color dynamics will provide experiences in applying design theory, ideas and creative problem solving in the area of communication technology. Student learning experiences encompass art history, art criticism, aesthetics, and production, which lead to the creation of portfolio-quality works. Students reflect upon and refine their work; explore cultural and historical connections; analyze, interpret, theorize, and make informed judgments about artwork and the nature of art in areas of communication; relate art to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills. Notable class projects include a custom electric guitar and classic arcade cabinet.

DIGITAL ELECTRONICS: H

Full year course, 1 credit per semester – *Prerequisites: Successful completion of Introduction to Engineering Design* (DOE Course Code: 5538)

Digital Electronics is a specialization course of study in applied digital logic. The course is patterned after the first semester course in Digital Electronics taught in two- and four-year colleges. Students will study the application of electronic logic circuits and devices and apply Boolean logic to the solution of problems. Such circuits are found in watches, calculators, video games, computers, and thousands of other devices. The use of smart circuits is present in virtually all aspects of our lives, making digital electronics an important course of study for a student exploring a career in engineering/engineering technology. Using MultiSIM , the industry standard, students will test and analyze simple and complex digital circuitry. Students will design circuits using MultiSIM, export their designs to a printed circuit auto routing program that generates printed circuit boards, and construct and design using chips and other components. Dual Credit may be available through Ivy Tech course number ADMF 113.

INTRODUCTION TO ENGINEERING DESIGN: H

Full year course, 1 credit per semester – *Corequisite: Algebra I or equivalent; Prerequisites: None*
(DOE Course Code: 4802)

Introduction to Engineering Design is an introductory foundation course which develops student problem solving skills with emphasis placed upon the concept of developing a 3-D model or solid rendering of an object. Students focus on the application of visualization processes and tools provided by the modern, state-of-the-art computer hardware and software, Inventor. This modern computer-based process replaces the traditional hand drawing methods. The course will emphasize the design development process of a product and how a model of that product is produced, analyzed, and evaluated, using a Computer Aided Design System. Various design applications will be explored with discussion of possible career opportunities. Dual Credit may be available through Ivy Tech course number DESN 102.

ENGINEERING DESIGN & DEVELOPMENT (EDD): H

Full year course, 2 semesters required, 1 credit per semester, 2 credits maximum – *Prerequisites: Instructor approval and/or Introduction to Engineering and Design (IED) and Principles of Engineering (POE) (DOE Course Code: 5698)*

Engineering Design and Development (EDD) is the capstone course in PLTW high school engineering program. It is an open-ended engineering research course in which students work in teams to design and develop an original solution to a well-defined and justified open-ended problem by applying an engineering design process. Students will perform research to select, define, and justify a problem. After carefully defining the design requirements and creating multiple solution approaches, teams of students select an approach, create, and test their solution prototype. Student teams will present and defend their original solution to an outside panel. While progressing through the engineering design process, students will work closely with experts and will continually hone their organizational, communication and interpersonal skills, their creative and problem-solving abilities, and their understanding of the design process.

PRINCIPLES OF ENGINEERING: H

Full year course, 1 credit per semester – *Prerequisites: "C" or better in Introduction to Engineering Design AND Algebra I or Integrated Math I or with instructor approval.* (DOE Course Code: (5644)

Principles of Engineering is a foundation course that helps students understand the field of engineering and engineering technology. Students will explore various technology systems to help learn how engineers and technicians use math, science, and technology in an engineering problem-solving process to benefit people and society. Dual Credit may be available through Ivy Tech course number DESN 104.

INTRODUCTION TO ADVANCED MANUFACTURING AND LOGISTICS

Full year course, 1 credit per semester – *Prerequisites: Computers in Design and Production (MT) OR Principles of Engineering OR with instructor approval*
(DOE Course Code: 4796)

Introduction to Advanced Manufacturing and Logistics first semester *(HIRE Technology S1)* is a course that specializes in how people use modern manufacturing systems. Students will be introduced to advanced manufacturing and logistics and their relationship to society, individuals, and the environment. Students apply the skills and knowledge of using modern manufacturing processes to obtain resources and change them into industrial materials, industrial products, and consumer products Students investigate the properties of both ferrous and non-ferrous engineered materials. After gaining a working knowledge of these materials, students gain an understanding of CNC machining, pneumatics, and hydraulic power systems. Students gain a basic understanding of tooling, electrical skills, operation skills, inventory principles, MSDS's, and chart and graph reading. Students have the opportunity to develop the characteristics employers seek as well as skills that will help them in future endeavors.
In *Introduction to Advanced Manufacturing and Logistics* second semester (HIRE Technology S2), students apply the skills and

knowledge of using modern manufacturing processes to obtain resources and change them into industrial materials, industrial products, and consumer products. There is also an emphasis placed on the flow process principles, material movement, logistics, and related business operations. Students have the opportunity to develop the characteristics employers seek as well as skills that will help them in future endeavors. Students can earn APICS certification in Logistics and/or Operations as well as MSSC certification in Certified Logistics Associate. Dual Credit may be available through Ivy Tech course numbers MPRO 100 and MPRO 106 following completion of both semesters of *Introduction to Advanced Manufacturing and Logistics*.

ROBOTICS DESIGN AND INNOVATION

Full year course, 1 credit per semester – *Prerequisites: {[Intro to Manufacturing OR Intro to Communication OR Principles of Engineering OR Computer Science I] AND [Algebra I]} OR Instructor Approval OR permission of instructor* (DOE Course Code: 4728)

Robotics Design and Innovation allows students to design, program, and test innovative technological designs related to robotic systems. Topics involve mechanics, pneumatics, control technologies, computer fundamentals, and programmable control technologies. Students design, build, and optimize robots to perform a variety of predesignated tasks. Individuals or small teams may choose to participate in organized robotic competitions or develop their own events during the course. Students will investigate all aspects of the industries related to robotics design and innovation and explore collegiate programs of study.

INTRODUCTION TO TRANSPORTATION

Full year course, 1 credit per semester – *Prerequisites: Computers in Design and Production (MT) OR Principles of Engineering OR with instructor approval* (DOE Course Code: 4798)

Introduction to Transportation is an introductory course designed to help students become familiar with fundamental principles in modes of land, sea, air, and space transportation, including basic mechanical skills and processes involved in transportation of people, cargo, and goods. Students will gain and apply knowledge and skills in the safe application, design, production, and assessment of products, services, and systems as they relate to the transportation industries. Content of this course includes the study of how transportation impacts individuals, society, and the environment. Both two-stroke and four stroke gasoline engines will be discussed in addition to the study of diesel and rotary engines. The classroom material is reinforced with hands-on laboratory activities including the design and testing of airfoils and boat hulls along with learning how to work with fiberglass. A systems-based approach will allow the student to gain knowledge in various areas such as fuel and emission control, ignition, cooling, and lubrication.

WEB DESIGN

1 Semester Course, 1 credit, offered both semesters – *Prerequisites: None* (DOE Course Code: 4574)

Web Design is a course that provides instruction in the principals of web design using HTML / XHTML and current/emerging software programs. Students will use their computers to understand the fundamentals of how websites are built from the ground up, including a brief dive into the CSS and JavaScript languages. During their one semester in this course, students will be given the opportunity to create a website based on a topic of their choosing.

FAMILY AND CONSUMER SCIENCES (FACS)

COURSES:

	Grade Level
Adult Roles and Responsibilities	10 11 12
Advanced Child Development	9 10 11 12
Advanced Nutrition and Wellness	9 10 11 12
Advanced Textiles	11 12
Fashion and Textiles Capstone	12
Hospitality Management Capstone	12
Introduction to Housing & Interior Design	10 11 12
⧫ # Nutrition & Hospitality Management (Pony-Branding Iron)	11 12
Preparing for College and Careers	9 10
⧫ Principles to Culinary Arts & Hospitality	10 11 12
Principles of Fashion and Textiles	9 10 11
Principles of Human Services	9 10 11
Relationships & Emotions	10 11 12
Textiles, Apparel, and Merchandising	10 11 12
Understanding Diversity	10 11 12

*PATHWAYS AT JHS:

Culinary:	
⧫ Principles to Culinary Arts & Hospitality	10 11 12
⧫ # Nutrition & Hospitality Management (Pony-Branding Iron)	11 12
Hospitality Management Capstone	12
Fashion:	
Principles of Fashion and Textiles	9 10 11
Textiles, Apparel, and Merchandising	10 11 12
Advanced Textiles	11 12
Fashion and Textiles Capstone	12
Human Services:	
Principles of Human Services	9 10 11
Relationships & Emotions	10 11 12
Understanding Diversity	10 11 12

* Completing a pathway satisfies the ***Postsecondary-Ready Competencies*** *graduation requirement*

⧫ Dual Credit available from Ivy Tech-Central Indiana (Indianapolis)

ProStart, and ServSafe certifications offered

ADULT ROLES AND RESPONSIBILITIES

(ADULTROLES)

1 semester course, 1 credit, offered both semesters – *Prerequisites: None* (DOE Course Code: 5330)

Adult Roles and Responsibilities is recommended for juniors and seniors as life foundations and academic enrichment, and as a career sequence course for students with interest in family and community services, personal and family finance, and similar areas. This course builds knowledge, skills, attitudes, and behaviors that students will need as they complete high school and prepare to take the next steps toward adulthood in today's society. The course includes the study of interpersonal standards, lifespan roles and responsibilities, individual and family resource management, and financial responsibility and resources. Project based and service learning opportunities.

ADVANCED CHILD DEVELOPMENT

(ADVCHLDDEV)

Full year course, 1 credit per semester – *Prerequisites: None* (DOE Course Code: 5360)

Advanced Child Development is for students interested in life foundations, academic enrichment, and/or careers related to children. This course addresses issues of child development from conception through age 8 (grade 3), the study of professional and ethical issues in child development; child growth and development; child development theories, research, and best practices; child health and wellness; teaching and guiding children; special conditions affecting children; and career exploration in child development and nurturing. The infant simulators will be part of this project –based course. Alternative assignments will be offered if the student's parent prefers a more traditional approach. Also included are opportunities for planning, participating, and evaluating children of the various ages studied by observation.

ADVANCED NUTRITION AND WELLNESS
(ADV NTRN WEL)

Full year course, 1 credit per semester – *Prerequisites: None* (DOE Course Code: 5340)

This course provides experiences in planning and preparing nutritious foods. It is recommended for all students who want to improve their diet and understand how nutrition affects the body across the lifespan. Emphasis is placed on safe and sanitary preparation techniques, cooperative work habits in a group setting, broadening one's awareness of the ever-changing food products available to consumers, science and technology used with nutrition, and careers related to nutrition and wellness. Food groups studied include; fruits, vegetables, protein, dairy, and grains. Advanced Nutrition and Wellness is a course that provides an extensive study of nutrition. It is an especially appropriate course for students interested in careers in medicine, athletic training, and dietetics. Laboratory experiences will be utilized to develop food handling and preparation skills.

ADVANCED TEXTILES
(ADV TEXT)

Full year course, 1 credit per semester– *Prerequisites: Principles of Fashion and Textiles; Textiles, Apparel, and Merchandising* (DOE Course Code: 7303)

Advanced Textiles will focus on the study of textiles concerning fiber, yarn, fabric construction, and finishes which affect the selection, use, and care of textiles.

FASHION AND TEXTILES CAPSTONE
(FASH TEXT CAP)

Full year course, 1 credit per semester– *Prerequisites: Principles of Fashion and Textiles; Textiles, Apparel, and Merchandising; Advanced Textiles* (DOE Course Code: 7304)

Fashion Textile Capstone studies the evolution of Western dress from ancient times to the twentieth century. Emphasis on representative style and change over time. Additionally, this course will focus on the Identification of physical features which affect apparel quality. Analysis of ready-to-wear apparel to identify features which produce desirable aesthetic and functional performance is also covered.

HOSPITALITY MANAGEMENT CAPSTONE
(HOSP MGMT CAP)

Full year course, 1 credit per semester – *Prerequisites: PASS both semesters of Principles of Culinary and Hospitality, Nutrition, and Hospitality Management* (DOE course code: 7237)

This course presents the essentials of effective food and beverage control while establishing systems for sale values of food and beverages that are outlined. This course addresses the application of the four-step control process to the primary phases of foodservice operations: purchasing, receiving, storing, issuing and production. Labor costs and sales forecasting are analyzed. This course is also opportunity for the Intermediate Hospitality student to acquire valuable field experience by working the Hospitality Manager supervision. The student keeps a journal and prepares a report of their experience at the end of the course.

INTRODUCTION TO HOUSING AND INTERIOR DESIGN
(INT HSINT DES)

1 semester course, 1 credit, offered both semesters – *Prerequisites: None* (DOE Course Code: 5350)

This course is essential for students interested in academic enrichment or a career within the interior design, housing, or furnishing industries. Students in this course gain practical knowledge and skills in designing and decorating residential and commercial environments. The student will work independently to create a major design project which will incorporate reading blueprints, rendering floor plans, and selecting decorative swatches to illustrate the principles and elements of design.

NUTRITION AND HOSPITALITY MANAGEMENT ⧗
(FD THRY NUT & HOSP MAN)

Full year course, 2 credits per semester, meets 2 blocks (blocks 2,3) – *Prerequisites: Pass BOTH semesters of Principles of Culinary Arts and Hospitality;* (DOE Course Code: 7171, 7172)

Nutrition 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 will be made aware of nutrient needs throughout the life cycle and to apply those principles to menu planning and food preparation. This course will engage students in hands-on learning of nutritional concepts such as preparing nutrient dense meals or examining nutritional needs of student athletes.

Hospitality Management prepares students for employment in the hospitality industry. It provides the foundations for study in higher education that leads to a full spectrum of hospitality careers. This is a broad-based course that introduces students to all segments of hospitality, what it includes, and career opportunities that are available; provides a survey of management functions, highlighting basic theories and facts; and exposes students to current trends and current events within the industry. Three major goals of this course are for students to be able to identify current trends in hotel and restaurant management, distinguish the difference between hospitality and tourism, and state differences in front of the house versus back of the house.

PREPARING FOR COLLEGE AND CAREERS
(PREP CC)

1 semester course, 1 credit, offered both semesters – *Prerequisites: None* (DOE Course Code: 5394)

This course includes reviewing the 16 national career clusters and Indiana's College and Career Pathways, in-depth investigation of one or more pathways, reviewing graduation plans, and developing career plans. Other topics addressed include: exploration of personal aptitudes, interests, values, and goals; planning and building employability skills; transferring school skills to life and work; and managing personal resources.

PRINCIPLES OF CULINARY AND HOSPITALITY ⧗
(PRIN HOSP)

Full year course, 1 credit per semester – *Prerequisites: Pass Advanced Nutrition and Wellness* (DOE Course Code: 7173)

Introduction to Culinary Arts and Hospitality prepares students for a possible career in the food service industry. This 2-semester course focuses on basic culinary skills that include sanitation; knife safety; various cooking methods; proper use of kitchen equipment; nutritious menu planning; using standardized recipes; working with people, business math, and portion control. Students will perform lab-based projects in a commercial lab. The curriculum is based on the ProStart curriculum. Students will have the opportunity to be ServSafe certified and ProStart certified if continuing to Culinary & Hospitality Management.

PRINCIPLES OF FASHION AND TEXTILES
(PRIN FASH TEXT)

Full year course, 1 credit per semester– *Prerequisites: None* (DOE Course Code: 7301)

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

PRINCIPLES OF HUMAN SERVICES
(PRIN HUM SERV)

Full year course, 1 credit per semester – *Prerequisites: None*
(DOE Course Code: 7176)

Principles of Human Services explores the history of human services, career opportunities, and the role of the human service worker. Focuses on target populations and community agencies designed to meet the needs of various populations. The course includes a required job shadowing project in a Human Services setting (a suggested four-hour minimum to meet Ivy Tech requirements). This course will also encourage cultural awareness and appreciation of diversity. Focuses on cultural variations in attitudes, values, language, gestures, and customs. Includes information about major racial and ethnic groups in the United States.

RELATIONSHIPS AND EMOTIONS
(REL EMO)

Full year course, 1 credit per semester – *Prerequisites: Principles of Human Services* (DOE Course Code: 7177)

Relationship & Emotions examines the key elements of healthy relationships. Explores the main problems that damage relationships. Presents research findings on successful and unsuccessful relationships, and emotional connections. Explores the impact of one's emotional and relationship history on current and future romantic relationships. Presents practical, scientific-based skills for improving relationships. Additionally, this course offers practical and useful information for people who have experienced loss. Students have the opportunity to evaluate their own experiences and attitudes toward loss and grief.

TEXTILES, APPAREL, AND MERCHANDISING
(TEXT APP MERCH)

Full year course, 1 credit per semester – *Prerequisites: Principles of Fashion and* Textiles (DOE Course Code: 7302)

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

UNDERSTANDING DIVERSITY
(UND DIV)

Full year course, 1 credit per semester–*Prerequisites: Principles of Human Services* (DOE Course Code: 7174)

Understanding Diversity encourages cultural awareness and appreciation of diversity. Focuses on cultural variations in attitudes, values, language, gestures, and customs. Includes information about major racial and ethnic groups in the United States.

MATHEMATICS

General Course Selections
- Integrated Mathematics I
- Integrated Mathematics II
- Integrated Mathematics III
- Algebra I
- Geometry
- Algebra II
- Probability and Statistics
- ⧓ Quantitative Reasoning
- Trigonometry

CP Course Selections
- Geometry CP
- Algebra II CP
- Finite Mathematics
- ⧓ PreCalculus: Algebra/Trigonometry CP
- ⧓ Calculus

Honors Selections
- Geometry H
- Algebra II H
- ⧓ PreCalculus: Algebra/Trigonometry H
- Statistics, AP
- Calculus AB: AP

⧓ Dual Credit available from Ivy Tech

Alphabetical List of Mathematics Department Course Descriptions

ALGEBRA I

Full year course, 1 credit per semester – *Prerequisites: "C" or better in Int 1, or teacher recommendation; 2nd semester, passing grade in 1st semester*
(DOE Course Code: 2520)

Algebra I provides a formal development of the algebraic skills and concepts necessary for students who will take other math courses. In particular, the instructional methods in this course provide for the use of algebraic skills in a wide range of problem-solving situations. The concept of function is emphasized throughout the course. Topics include: properties of real numbers, solution sets, basic operations with polynomials, solving quadratic equations and systems of equations, use of exponents, and introductory topics from statistics and probability.

ALGEBRA II

Full year course, 1 credit per semester – *Prerequisites: For Algebra II, the Prerequisites are Algebra I, Geometry; for Algebra II CP, they are Algebra I, Geometry CP, both passed with a "C" or better; for Algebra II H, they are Algebra I and Geometry H, both passed with an 80% grade; or teacher recommendation*
(DOE Course Code: 2522)

This course is taught in different classes based on learning styles and student skill level. *Algebra II H* it operates at a deeper, more challenging level and runs at a quicker pace.

Algebra II expands on the topics of *Algebra I* and provides further development of the concept of a function. The expanded topics of the course include: (1) the theorems and algorithms of algebra; (2) polynomials and polynomial functions; (3) rational exponents; (4) the complex number system; (5) sequences and series; (6) exponential and logarithmic functions; (7) algebraic fractions and (8) probability and statistics.

CALCULUS ⧓

Full year course, 1 credit per semester – *Prerequisite: Pre-Calculus (passed with a C or better)* (DOE course code: 2527)

Calculus expands a student's knowledge of topics including functions, graphs, limits, derivatives, and integrals. Additionally, students will review algebra and functions, modeling, and trigonometry. The use of graphing calculators is encouraged.

CALCULUS AB: AP

Full year course, 1 credit per semester – *Prerequisites: Geometry H, Algebra II H, and PreCalculus H, passed with an 80% or higher or better* OR teacher recommendation (DOE Course Code: 2562)

Calculus AP is a two-semester course for highly motivated math students. Students in this course will take the AB level Advanced Placement Test in Calculus on a predetermined date in May. College credit may be earned for this course. This is a course which provides students with the content that has been established by the College Board. Topics include: (1) limits, (2) continuity, (3) derivatives, (4) definite integrals, and (5) techniques of integration involving rational, trigonometric, logarithmic, and exponential functions. This course also includes applications of the derivative, the integral, and the theory of calculus. The use of graphing technology is required. Dual Credit may be earned through Ivy Tech.

FINITE MATHEMATICS

Full year course, 1 credit per semester – *Prerequisites: Algebra II CP and Geometry II CP, passed with a "C" or better* (DOE Course Code: 2530)

Finite Mathematics is an umbrella of mathematical topics. It is a course designed for students who will undertake higher-level mathematics in college that may not include calculus. Topics include: (1) counting techniques, (2) matrices, (3) recursion, (4) graph theory, (5) social choice, (6) linear programming, and (7) game theory.

GEOMETRY

Full year course, 1 credit per semester – *Prerequisites: For Geometry, the Prerequisite is Algebra I; for Geometry CP, it is Algebra I; passed with a "C" or better; for Geometry H, it is Algebra I or teacher recommendation (if they took Algebra I in 7th or 8th grade, they must have passed with an 80% or higher)* (DOE Course Code: 2532)

This course is taught in different classes based on learning styles and student skill level. *Geometry H* operates at a deeper, more challenging level and runs at a quicker pace.

Geometry students examine the properties of two- and three-dimensional objects. Proof and logic, as well as investigative strategies in drawing conclusions, are stressed. Properties and relationships of geometric objects include the study of: (1) points, lines, angles, and planes; (2) polygons, with a special focus on quadrilaterals, triangles, and right triangles; (3) circles; and (4) polyhedra and other solids.

INTEGRATED MATHEMATICS I

Full year course, 1 credit per semester – *Prerequisites: teacher/counselor recommendation* (DOE Course Code: 2554)

Integrated Mathematics I formalizes and extends the mathematics students learned in the middle grades. The critical areas deepen and extend understanding of linear relationships, in part by contrasting them with exponential phenomena, and in part by applying linear models to data that exhibit a linear trend. Integrated Mathematics I uses properties and theorems involving congruent figures to deepen and extend understanding of geometric knowledge from prior grades. The final unit in the course ties together the algebraic and geometric ideas studied. The eight Process Standards for Mathematics apply throughout the course. Together with the content standards, the Process Standards prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

INTEGRATED MATHEMATICS II

Full year course, 1 credit per semester – *Prerequisites: Int I, Algebra I, or teacher/counselor recommendation* (DOE Course Code: 2556)

Integrated Mathematics II focuses on quadratic expressions, equations, and functions by comparing their characteristics and behavior to those of linear and exponential relationships from Integrated Mathematics I. The need for extending the set of rational numbers arises and real and complex numbers are introduced so that all quadratic equations can be solved. The link between probability and data is explored through conditional probability and counting methods, including their use in making and evaluating decisions. The study of similarity leads to an understanding of right triangle trigonometry and connects to quadratics through Pythagorean relationships. Circles, with their quadratic algebraic representations, rounds out the course. The eight Process Standards for Mathematics apply throughout the course. Together with the content standards, the Process Standards prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

INTEGRATED MATHEMATICS III

Full year course, 1 credit per semester – *Prerequisites: Integrated Mathematics II (*DOE Course Code: 2558)

Integrated Mathematics III provides students the opportunity to pull together and apply the accumulation of learning that they have from their previous courses. They apply methods from probability and statistics to draw inferences and conclusions from data. Students expand their repertoire of functions to include polynomial, rational, and radical functions. They expand their study of right triangle trigonometry to include general triangles. Finally, students bring together all of their experiences with functions and geometry to create models and solve contextual problems. The eight Process Standards for Mathematics apply throughout the course. Together with the content standards, the Process Standards prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

PRECALCULUS: ALGEBRA/TRIGONOMETRY CP

Full year course, 1 credit in PreCalculus: Algebra 1st semester and 1 credit in PreCalculus: Trigonometry 2nd semester – *Prerequisites: Algebra I, Geometry CP, and Algebra II CP; passed with a "C" or better (*DOE Course Code: 2564 and 2566)

PreCalculus CP blends together all concepts and skills that must be mastered prior to enrollment in a college-level calculus course. A functional approach provides for the integration of all of the concepts listed for the course in Trigonometry plus: (1) the relationship of equations and graphs of linear, quadratic, and parametric equations; and (2) translation of axes. The course includes the theory of equations and exponential and logarithmic functions. Dual Credit may be earned through Ivy Tech and IU.

PRECALCULUS: ALGEBRA/TRIGONOMETRY H

Full year course, 1 credit in PreCalculus: Algebra 1st semester and 1 credit in PreCalculus: Trigonometry 2nd semester – *Prerequisites: Geometry H and Algebra II H with an 80% or higher OR teacher recommendation* (DOE Course Code: 2564 and 2566)

Pre-Calculus H operates at a deeper, more challenging level and runs at a quicker pace. Dual Credit may be earned through Ivy Tech.

Semester 1: *PreCalculus H* blends the concepts and skills that must be mastered before enrollment in a college-level calculus course. The course includes the study of (1) relations and functions, (2) exponential and logarithmic functions, (3) complex numbers, (4) sequences and series, and (5) data analysis.

Semester 2: Trigonometry includes the study of (1) trigonometry in triangles, (2) trigonometric functions, (3) trigonometric identities and equations, and (4) polar coordinates and complex numbers.

PROBABILITY AND STATISTICS

1 semester course, 1 credit, offered 2nd semester – *Prerequisite: Algebra II (passed with a C or better)* (DOE course code: 2546)

Probability and Statistics includes the concepts and skills needed to apply statistical techniques in the decision-making process and is made up of three strands: Data Analysis, Experimental Design, and Probability. Practical examples based on real experimental data are used throughout. Students plan and conduct experiments or surveys and analyze the resulting data. The use of graphing calculators and computer programs is encouraged.

QUANTITATIVE REASONING

Full year course, 1 credit per semester – *Prerequisites: Must have passed Geometry AND Algebra II, or Integrated Math III with a grade of "C" or better* (DOE Course Code: 2550)

Dual Credit may be earned through Ivy Tech.

Quantitative Reasoning is a mathematics course focused on the study of numeracy, ratio and proportional reasoning, modeling, probabilistic reasoning to assess risk, and statistics. Students build knowledge of and confidence with basic mathematical/analytical concepts and operations required for problem solving, decision making, and

economic productivity in real-world applications and prepare for an increasingly information-based society in which the ability to use and critically evaluate information, especially numerical information, is essential.

STATISTICS: AP

Full year course, 1 credit per semester – *Prerequisites: Algebra II CP or H, Geometry CP or H, PreCalculus passed with a grade of "C" or better, can be taken concurrently with Calculus* (DOE Course Code: 2570)

Statistics AP is a course in which students interpret graphical displays of distributions, summarize distributions, and explore bivariate data. Students study methods of collecting data and planning and conducting surveys and experiments. Probability is explored through simulations, probability rules, random variables, normal distributions, binomial distributions, geometric distributions, and the Central Limit Theorem. Statistical inference is studied through confidence intervals for means and proportions and through tests of significance. Students are encouraged to take the Advanced Placement exam in May. Most 4-year degrees require at least one Statistics course be taken. A passing score on the AP exam will earn credit for an introductory Statistics course at most universities.

TRIGONOMETRY

1 semester course, 1 credit, offered 1st semester – *Prerequisite: Algebra II and Geometry (passed with a C or better)* (DOE course code: 2566)

Trigonometry provides the foundation for common periodic functions that are encountered in many disciplines and consists of seven strands: Conics, unit circle, Geometry, Periodic Functions, Identities, Polar Coordinates, and Vectors. Students will also advance their understanding of imaginary numbers through an investigation of complex numbers and polar coordinates.

MUSIC AND DANCE

Note: Any student interested in auditioning for or participating in any of the all-state bands, orchestras, or choirs must be enrolled in the appropriate Jefferson High School curricular organization. For example, in order to audition for All State Choir, the student MUST be enrolled in one of the JHS choirs.

A Jefferson High School student interested in participating in the Indiana State School Music Association District or State Solo/Ensemble Contest must be enrolled and be an active participant in the appropriate musical organization which the student is representing. This means that vocal soloists or vocal ensemble members must be enrolled in a Jefferson Choir organization, piano soloists must be enrolled in a JHS musical organization, and wind/string/percussion instrumentalists must be enrolled in either band or orchestra at JHS.

Choral Music:
- Beginning Chorus, Accents (female)
- Beginning Chorus, C.S.N. (male)
- Intermediate Chorus, A Cappella
- Advanced Chorus, Expressions (female)
- Advanced Chorus, Varsity
- Advanced Chorus, First Edition

Dance:
- Dance Performance I, II, III
- Dance Performance, Varsity Dance Team

Instrumental Music:

Band and Percussion
- Beginning Concert Band
- Intermediate Concert Band, Symphonic Band
- Advanced Concert Band, Wind Ensemble
- Jazz Ensemble
- Jazz Lab
- Beginning Concert Band, Percussion
- Intermediate Concert Band, Percussion
- Advanced Concert Band, Percussion

Orchestra
- Orchestra I - Beginning
- Orchestra II - Intermediate
- Orchestra III - Advanced

Other Band
- Dance Performance, Color Guard

Other Music:
- Electronic Music: Composing with Digital Tools I
- Electronic Music: Composing with Digital Tools II
- Music Theory and Composition I
- Music Theory, AP
- Piano and Electronic Keyboard I
- Piano and Electronic Keyboard II
- Piano and Electronic Keyboard II: H

Music and Dance Department Course Descriptions by Emphasis

Choral

BEGINNING CHORUS, ACCENTS

Full year course, 1 credit per semester *Prerequisites: None* (DOE Course Code: 4182)

Accents girls' chorus is a co-curricular ensemble open to any female who desires to improve her vocal technique, performing skills, and general musicianship. Daily work in this ensemble stresses the fundamentals of vocal technique while performing on a limited basis. Students will be exposed to a variety of repertoire appropriate to the age and skill level of the participants. Students are responsible for purchasing the required performance attire. All choirs are considered co-curricular activities, and as such, will require attendance at performances, activities, and rehearsals outside of the school day.

BEGINNING CHORUS, C.S.N.

Full year course, 1 credit per semester – *Prerequisites: None* (DOE Course Code: 4182)

C.S.N. (Chorale Sine Nomine = the choir with no name) is open to any male who desires to improve his vocal technique, performing skills, and general musicianship. Daily work in this ensemble stresses the

fundamentals of vocal technique while performing on a limited basis. Students will be exposed to a variety of repertoire appropriate to the age and skill level of the participants. Students are responsible for purchasing the required performance attire. All choirs are considered co-curricular activities, and as such, will require attendance at performances, activities, and rehearsals outside of the school day.

INTERMEDIATE CHORUS, A CAPPELLA

Full year course, 1 credit per semester – *Prerequisites: Audition and permission of instructor* (DOE Course Code: 4186)

A Cappella is a mixed chorus open to all students. Daily work stresses intermediate to advanced vocal technique and performing skills. Members of this ensemble sing a wide variety of choral literature including traditional, Broadway, folk, popular, and world music. Staging and choreography are incorporated into much of this ensemble's performances. All choirs are considered co-curricular activities, and as such, rehearses on a limited basis outside school hours, has competitions on some weekends, and performs in the Fall Concert, Holiday Shows, and Spring Shows. Failure to do so will affect the student's grade. Students are responsible to pay for the assigned fees. Fees pay for many things, including concert attire and choral jacket/tee-shirt/sweatshirt, contest registration fees, show production fees, custom arrangements, set designs, transportation, and licensing. Several fundraisers are made available to students to help fund their choral accounts.

ADVANCED CHORUS, EXPRESSIONS

Full year course, 1 credit per semester – *Prerequisites: Audition and permission of instructor* (DOE Course Code: 4188)

Expressions is a treble voiced competitive show choir and concert choir open to treble voices by audition only. Daily work stresses advanced vocal technique as well as medium to advanced vocal repertoire. Students will experience a variety of vocal styles and musical genres. Performance repertoire will include staging and choreography. Students are responsible to pay for the assigned fees. Fees pay for many things, including concert attire and choral jacket/tee-shirt/sweatshirt, contest registration fees, show production fees, custom arrangements, set designs, transportation, and licensing. Several fundraisers are made available to students to help fund their choral accounts. Expressions is considered a co-curricular activity, and as such, students will rehearse outside of school hours, have competitions on some weekends, and perform in the Fall Concert, Holiday Shows, and Spring Shows. Failure to do so will affect the student's grade.

ADVANCED CHORUS, Varsity

Full year course, 1 credit per semester – *Prerequisites: Audition and permission of instructor* (DOE Course Code: 4188)

Varsity Singers is the premier mixed concert choir open to students selected by audition. Daily work stresses advanced vocal technique as well as demanding advanced vocal repertoire. Repertoire will consist primarily of pieces from the Indiana State School Music Association "Group 1" required list, or literature of similar difficulty level. Students will experience a variety of vocal styles, musical genres, and historical periods of music. Introductions to music listening, music history, and music theory are incorporated into the course as well. Members will also be exposed to various vocal music concepts such as proper vocal technique, proper awareness of balance and blend, and awareness and production of proper tone quality. Students will be responsible for paying all of the appropriate fees that are correlated with the ensemble which include, but are not limited to: attire, production fees, competition registrations, etc. All choirs are considered co-curricular activities, and as such, will require attendance at performances, activities, and rehearsals outside of the school day. This ensemble also performs at all of our annual department concerts and travel and perform on numerous occasions as well as compete in various choir competitions throughout the year.

ADVANCED CHORUS, FIRST EDITION

Full year course, 1 credit per semester – *Prerequisites: Audition and permission of instructor* (DOE Course Code: 4188)

First Edition is the premier mixed show choir open to students selected by audition. This choir experience stresses the performance of medium to advanced musical literature including traditional, Broadway, folk, popular, and world music. Advanced staging and choreography are incorporated into this ensemble's performances. Students will be exposed to a variety of quality repertoire appropriate for their age and skill level. Students may have the opportunity to hear live performances by professionals during and outside of class. Members will also be exposed to various vocal music concepts such as proper vocal technique, proper awareness of balance and blend, and awareness and production of proper tone quality. Students will be responsible for paying all of the appropriate fees that are correlated with the ensemble which include, but are not limited to: attire, production fees, competition registrations, etc. All choirs are considered co-curricular activities, and as such, will require attendance at performances, activities, and rehearsals outside of the school day. This ensemble also performs at all of our annual department concerts and travel and perform on numerous occasions as well as compete in various choir competitions throughout the year.

Dance

DANCE PERFORMANCE

Learning activities in choreography are sequential and systematic and allow students to express themselves. A wide variety of materials and experiences are used in order to provide students with the knowledge, skills, and appreciation of the multi-styled and multicultural dance expressions. Activities are designed to develop students' ability to:

- translate ideas, images, emotions, perceptions, and personal experiences into movement
- improvise, using immediate and spontaneous responses:
- experiment and apply concrete and abstract concepts;
- produce a concept and design using a selection of style, content, and accompaniment;
- understand musical phrasing, rhythmic structures, meters, and musical application within choreography;
- research production and technical skills required for an actual performance; make interpretive decisions; and
- create and include accompaniment rehearsals, costume and props, and set and lighting design
- identify ways that dance reflects, records, and influences history.
- identify patterns, relationships, and trends dance plays in at least two different cultures and discuss how aesthetic judgments vary between them.
- research the origins of and the universal themes of dance.
- Using a modern dance-based approach, Dance courses explore movement as a creative art form. Student learning includes opportunities to develop kinesthetic awareness, proper body alignment, physical strength, flexibility, endurance, and care of the dance instrument while exploring improvisational and expressive movement and basic modern dance technique. Dance elements and basic principles of composition are studied and practiced. Through dance ensemble work, students use creative and critical thinking skills to create and communicate meaning through dance movement. Students experience the role of both choreographer and dancer and have opportunities to present their work. Through the study of dance in various cultures and historical periods, students broaden their understanding of dance as an art form. Students will explore a variety of career opportunities in dance as well as connections with other art forms and subject areas. Students will create a portfolio which contains written and/or visual examples of their work. Choreographic activities provide students opportunities to participate in roles as soloist, a choreographer or leader, and in a subject role. Students experience and learn to use appropriate terminology to describe, analyze, interpret, and critique dance compositions by professional individuals or companies. Students may attend dance performances within class to broaden their understanding and appreciation of the art form.

DANCE PERFORMANCE I

Full year course, 1 credit per semester – *Prerequisites: Must pass each semester before continuing on to next semester; or permission of instructor. Grades 9-12 are eligible to enroll, but due to space constraints, preference is given to upperclassmen.* (DOE Course Code: 4146)

Students will begin their dance training with ballet, modern, and jazz dance genres. Dance I will focus on proper terminology, body alignment and understanding of the specific dance genres. Students will study dance history. Students in this course are expected to perform at the semester recital as part of their grade.

DANCE PERFORMANCE II

Full year course, 1 credit per semester – *Prerequisites: Dance Performance I with grade of "C" or better and/or permission of instructor. Students with previous dance experience may obtain permission from instructor to enroll* (DOE Course Code: 4146)

After successfully completing Dance I, students may enroll in Dance II, which expands on their previous knowledge. Cultural dance is studied. Students also study and learn Broadway/musical theatre style dance, along with ballet, jazz and modern styles. Students will study dance history of specific genres. As part of the student's grade, they are required to perform at the semester recital, and may incur a costume fee.

DANCE PERFORMANCE III – TECHNIQUE

Full year course, 1 credit per semester – *Prerequisites: Dance Performance II with grade of "C" or better and/or permission of instructor. Students with previous dance experience may obtain permission from instructor to enroll* (DOE Course Code: 4146)

At the advanced level students are expected to learn phrases more quickly. Students work to develop an articulate, alert and neutral body, ready for precise dancing with intricate coordination. Clarity, simplicity of movement, and attention to detail are key objectives. This class will focus on technique, strength, and flexibility. As part of the student's grade, they are required to perform at the semester recital, and may incur a costume fee.

DANCE PERFORMANCE, VARSITY DANCE TEAM

Full year course, 1 credit per semester – *Prerequisites: Audition and permission of instructor* (DOE Course Code: 4146)

This class is designed for members of the Broncho's Dance Team (auditions held in May of previous school year). Students have the opportunity to experience professional performances and master classes during and outside of the school day. A limited amount of time, outside of the school day, may be scheduled for additional rehearsals and performances. A limited number of public performances will serve as a culmination of daily rehearsal and dance goals. Students must participate in performance opportunities, outside of the school day, that support and extend learning in the classroom.

Instrumental Band

BEGINNING CONCERT BAND, Concert Band

Full year course, 1 credit per semester – *Prerequisites: Recommendation of 8th grade director or permission of instructor* (DOE Course Code: 4160)

Concert Band is open to all qualified band students at Jefferson. The skill level of the players in this band has a minimum performance expectation. The Director of Bands will listen to interested students entering the Lafayette School Corporation and grant permission for enrollment in the band. The band stresses the basic skills of tone production, technical development, intonation, and rhythmic reading plus attention to balance, blend, interpretive markings, and response to conducting nuance.

INTERMEDIATE CONCERT BAND, Symphonic Band

Full year course, 1 credit per semester – *Prerequisites: Demonstration of basic skills proficiency, audition, and permission of the Director of Bands* (DOE Course Code: 4168)

Symphonic Band is open to all students who choose to continue playing their musical instruments and who continue to demonstrate basic performance skills on their musical instruments. Students who take this class will be exposed to music which continues the development started in *Beginning Concert Band*. The members will be exposed to solo and ensemble activities which will develop many musical elements including improved tone production, more advanced technical skills (such as more advanced key signature demands, more complex rhythmic notation), increased listening requirements (mainly harmonic in nature), and further study of the style of the music studied. Music selected will be developmentally appropriate to support these advancements. Students will evaluate and analyze their practices and performances.

ADVANCED CONCERT BAND, Wind Ensemble

Full year course, 1 credit per semester – *Prerequisites: Audition and permission of the Director of Bands* (DOE Course Code: 4170)

The *Wind Ensemble* is the premier wind and percussion performance ensemble at Jefferson High School. Enrollment is limited to students selected by audition or promoted by the Director of Bands from successful completion of Beginning and/or Intermediate Concert Band. Students are required to take private lessons. Scholarship money for lessons will be available to students selected for this ensemble who have a financial need. Through the selection of appropriate advanced concert band literature, members will be exposed to advanced concepts such as: advanced technical skills, refinement in tone production, increased awareness of balance and blend, and increased demands to the performer due to the construction of the musical texturing. Students will be exposed to literature commensurate with the expectation of the most advanced musical techniques applicable to the high school setting. The musical literature will primarily be on the difficulty level found on the *Group I Indiana State School Music Association* music list.

JAZZ ENSEMBLE

Full year course, 1 credit per semester – *Prerequisites: Audition with Jazz Ensemble Director(s). Recommended Prior Experience: Participation in the Extracurricular Swing Band and/or participation in Jr. High jazz band.* (DOE Course Code: 4164)

The Jefferson Jazz Ensemble is open to students who possess exemplary skills with their instrument and pass an audition given by the Jazz Ensemble Director(s). Jazz Ensemble members automatically perform in the flagship Jazz Ensemble ("big band"), and select interested students may also perform in the smaller jazz combo (additional co-curricular rehearsal time is expected). Many styles of jazz literature are studied (swing, bebop, funk, Latin, etc.), as well as jazz theory and improvisation. There will be numerous performances throughout the year, including school functions, jazz clinics, contests, and community outreach performances. Instrumentalists other than guitarists and pianists should be enrolled in a concert band (or orchestra, for the bassist). Guitarists and pianists are expected to be highly proficient at reading music and are highly encouraged to take private lessons. Students are highly encouraged to take Piano and Electronic Keyboard I or Music Theory and Composition I prior to or concurrent with playing in this ensemble.

JAZZ LAB

Full year course, 1 credit per semester – *Prerequisites: Successful completion of Junior High music classes, or by request with Jazz Lab Director(s). Recommended Prior Experience: Participation in Jr. High jazz band.* (DOE Course Code: 4162)

The Jazz Lab is open to any student who has completed Junior High band/orchestra classes, or for guitarists and pianists that have studied their instrument for at least three years. Jazz Lab is an introduction to styles popularized by American music culture, such as swing, funk, rock, pop, bebop; and introduces skills related to performance in a small ensemble such as improvisation, scalar patterns, audio system setup, and fulfilling the role of rehearsal technician. There will be numerous performances throughout the year, including school functions, jazz clinics, contests, and community outreach performances. Guitarists and pianists are expected to be highly proficient at reading music and are highly encouraged to take private lessons. Students are encouraged to take Electronic Music I or Music Theory and Composition I prior to or concurrent with playing in this ensemble.

Percussion

BEGINNING CONCERT BAND, PERCUSSION

Full year course, 1 credit per semester – *Prerequisites: Audition and permission of the Director of Bands and percussion instructor* (DOE Course Code: 4160)

Beginning Percussion is open to freshmen and other developing percussionists at Jefferson High School. The skill level of the players in this class has a minimum performance expectation. Students in this class have at least 2-3 years of experience in middle school. The class stresses the basic skills of technical development, rhythmic and melodic reading, and musical development for future placement in one of several concert bands. Principal focus is given to the snare drum, mallets, and timpani.

INTERMEDIATE CONCERT BAND, PERCUSSION

Full year course, 1 credit per semester – *Prerequisites: Audition and permission of the Director of Bands and percussion instructor. Recommended prior experience: Beginning Concert Band, Percussion* (DOE Course Code: 4168)

Intermediate Percussion is an intermediate-level class ensemble consisting of developing percussionists at Jefferson High School. Students in this class have at least 2-3 years of experience in middle school, and most will have completed *Beginning Percussion*, as well. The class continues developing basic skills in proper performance technique, rhythmic and melodic reading, and musical development. Principal focus is given to the snare drum, mallets, and timpani.

ADVANCED CONCERT BAND, PERCUSSION

Full year course, 1 credit per semester – *Prerequisites: Audition and permission of the Director of Bands and percussion instructor. Recommended prior experience: Beginning Concert Band, Percussion and/or Intermediate Concert Band, Percussion* (DOE Course Code: 4170)

Advanced Percussion is the premier performance ensemble class for percussion students at Jefferson. Students have at least 2-3 years of experience in middle school and most have additional high school experience. The students in this class possess a special desire to study the techniques, music, and instruments associated with advanced percussion performance. Students gain skills and knowledge that are able to transfer to applications in traditional concert bands and orchestras.

Orchestra

ORCHESTRA I, BEGINNING

Full year course, 1 credit per semester – *Prerequisites: A minimum of one-two years playing in a school orchestra.* (DOE Course Code: 4166)

The Beginning Orchestra is a developing ensemble that will focus on improving the technical aspects of each individual player, with the goal of preparing them to move up to the next ensemble level. Music prepared and performed will be at ISSMA level III and IV. Emphasis for this class will be on executing basic orchestral and string playing techniques, including 2 octave scales, note reading, rhythm and bowing exercises, music/orchestral/and string terminology, improved tone production, and listening/performing as a member of an ensemble.

ORCHESTRA II, INTERMEDIATE

Full year course, 1 credit per semester – *Prerequisites: A minimum of three years of playing in a school orchestra.* (DOE Course Code: 4172)

This orchestra will focus on reading and working on intermediate string orchestra literature with a focus on music from ISSMA's group II, III and IV lists. Basic and intermediate technical skills will be emphasized in every class. Goals for the class include reading and understanding a variety of rhythmic examples, producing a good tone, and improving intonation. Students must be proficient in 2 octave scales.

ORCHESTRA III, ADVANCED

Full year course, 1 credit per semester – *Prerequisites: A minimum of three years of playing in a school orchestra and an audition and acceptance into the ensemble.* (DOE Course Code: 4174)

This orchestra will focus on reading and working on advanced string orchestra literature with a focus on music from ISSMA's group I, II & III lists. Advanced technical skills will be emphasized in every class. Goals for the class include improving string techniques, producing a good tone, executing bowing articulations, rhythmic accuracy, as well as a basic understanding of applicable music theory. Private lessons are highly recommended. There will be required rehearsals and performances after school.

Other Instrumental

DANCE PERFORMANCE, COLOR GUARD

Full year course, 1 credit per semester – *Prerequisites: Audition and permission of Director of Bands and* Color Guard Director (DOE Course Code: 4146)

The Color Guard is an active performing ensemble that participates in many co-curricular performances. During the first semester, the Color Guard performs as an integral part of the Jefferson Marching band, and during second semester, students in the Color Guard will participate in Winter Guard. Students will be exposed to a variety of dance concepts, including techniques used in ballet, modern, jazz, and interpretive dance. The class will expose students to dance work that includes activities which will develop students' ability to create movements from interpretation of music. They will be able to use images, both directed and self-created, to apply to movement. Through this class they will be able to experience how musical phrasing, rhythmic structure, and pulse affect dance movement. They will be encouraged to include props, costumes, and design into their learning experiences.

The class will include, but is not limited to, activities that develop the students' ability to understand the body's physical potential; develop listening, comprehension, and memorization skills; and identify and use, both orally and in writing, appropriate terminology related to style and technique.

Other

ELECTRONIC MUSIC: COMPOSING WITH DIGITAL TOOLS I

1 semester course, 1 credit, offered both semesters – *Prerequisites: None* (DOE Course Code: 4202)

Electronic Music: Composing with Digital Tools I is open to all students regardless of background. Students will learn the science of sound; types and families of musical instruments, principles of organizing rhythm, melody, diatonic harmony, and form in music; the principles behind working in a digital audio workstation (DAW); and the techniques (editing, mixing, automation, processing, and basic MIDI sequencing necessary to create digital music projects of high quality. Students in the course will experience the imagining, planning and making, evaluating and refining, and presenting phases of the composition process and reflect on that experience. No prior formal training or musical experience is expected.

The course is taught in a classroom/computer laboratory environment. Independent work is a significant component in the course, so students should be prepared to maintain their self-discipline and motivation.

ELECTRONIC MUSIC: COMPOSING WITH DIGITAL TOOLS II

Full year course, 1 credit per semester – *Prerequisites: Semester 1: Successful completion of Composing with Digital Tools I (grade of "C" or higher); semester 2: successful completion of the 1st semester of Composing with Digital Tools II (grade of "C" or higher)* (DOE Course Code: 4202)

Students in *Composing with Digital Tools II* will learn the principles of digital audio sampling and file formats; advanced audio production techniques (compression, spatialization, filtering, pitch changing and time stretching); MIDI sequencing and advanced MIDI editing; approaches to composing with sound objects, gestures and spectromorphological archetypes; texture, density, and form in acousmatic music; processes and techniques of melodic development; functional diatonic and chromatic harmony, outer-voice counterpoint, and voice leading; orchestration; and composing with leitmotifs. Students will also explore the historical evolution of sound technologies, the difference between transparent and transformative uses of sound technologies, and historical approaches to composition.

Projects may include sound design and composing for film, children's book multimedia adaptation, songwriting, and experimental approaches to acousmatic composition. Students in the course will further develop their awareness and experience of the imagining, planning and making, evaluating and refining, and presenting phases of the composition process.

The course is taught in a classroom/computer laboratory environment. Independent work is a significant component in the course, so students should be prepared to maintain their self-discipline and motivation.

MUSIC THEORY AND COMPOSITION I

Full year course, 1 credit per semester – *Prerequisites: Semester 1: music-reading ability and working knowledge of keyboard (demonstrated through successful completion of Piano and Electronic Keyboard I-1 or by audition/placement exam); semester 2: successful completion of the 1st semester of Music Theory and Composition I (grade of "C" of higher). Recommended Prior Experience: Three years or more of middle- and high-school music performance classes* (DOE Course Code: 4208)

Students in *Music Theory I* will learn the fundamental elements and collections of music (rhythm, pitch, scales, keys, intervals, and chords) and be introduced to higher-order principles of musical structure, relation, and organization in functional tonal music (meter, tonality, melodic structure, key relationships). Students will also acquire related musicianship skills in aural identification of rhythms, intervals, scales/modes, and melodies; singing fundamental melodic patterns; and playing fundamental melodic patterns at the keyboard.

Music Theory and Composition I is taught in a classroom/computer laboratory environment and is designed for those students who have prior formal musical training in band/choir/orchestra/piano and music-reading fluency. Students without that background should schedule an appointment with the music theory coordinator to determine whether admission is appropriate.

MUSIC THEORY, AP

Full year course, 1 credit per semester – *Prerequisites: Semester 1: successful completion of the 2nd semester of Music Theory and Composition I (grade of "C" or higher) or by audition/placement exam; semester 2: successful completion of the 1st semester of AP Music Theory (grade of "C" or higher)* (DOE Course Code: 4210)

Students in *AP Music Theory* will expand their grasp of higher-order principles of musical structure and organization in functional tonal music. Topics will include species counterpoint, four-part chorale-style voice leading, reductive analysis, harmonic paradigms, analysis of phrase structures and relationships, and advanced musicianship (aural skills, sight singing, and keyboard).

Advanced Placement (AP) Music Theory is taught in a classroom/computer laboratory environment and is designed for those students who have significant prior formal musical training and experience and who wish to receive AP transcript credit. Students without that background should schedule an appointment with the music theory coordinator to determine appropriate placement.

PIANO AND ELECTRONIC KEYBOARD I

Full year course, 1 credit per semester – *Prerequisites: Semester 1: none; semester 2: successful completion of the 1st semester of Piano and Electronic Keyboard I or audition/placement exam* (DOE Course Code: 4204)

Piano and Electronic Keyboard I is taught in a classroom/piano laboratory environment and is intended for those with little or no formal keyboard training. Students with previous formal training in piano should schedule an appointment with the class piano coordinator to audition to be placed in Piano and Electronic Keyboard I or II, as appropriate. Independent work is a significant component in Piano and Electronic Keyboard, so students should be prepared to maintain their discipline and motivation.

Fees: Students will purchase course materials from Book Rental and may also be responsible for purchasing additional solo material(s). Students may be required to pay admission fees to any concerts attended or field trips taken during the course.

PIANO AND ELECTRONIC KEYBOARD II

Full year course, 1 credit per semester – *Prerequisites: Semester 1: "C" or better in the 2nd semester of Piano and Electronic Keyboard I or audition/placement exam; semester 2: successful completion of the 1st semester of Piano and Electronic Keyboard II or audition/placement exam* (DOE Course Code: 4204)

Piano and Electronic Keyboard II is taught in a classroom/piano laboratory environment and is intended for those students who have successfully completed *Piano and Electronic Keyboard I* or acquired the equivalent skills through other formal training. Independent work is a significant component in *Piano and Electronic Keyboard*, so students should be prepared to maintain their discipline and motivation.

PIANO AND ELECTRONIC KEYBOARD II: H

Full year course, 1 credit per semester – *Prerequisites: Semester 1: "B" or better in Piano and Electronic Keyboard I; semester 2: successful completion of the 1st semester of Piano and Electronic Keyboard II H or audition/placement exam* (DOE Course Code: 4204)

The Honors level of *Piano and Electronic Keyboard II* is taught in a classroom/piano laboratory environment and is intended for those students who have successfully completed Piano and Electronic Keyboard I or acquired the equivalent skills through other formal training. Students with previous formal training in piano should schedule an appointment with the class piano coordinator to audition to be placed in Piano and Electronic Keyboard I or II, as appropriate. The honors-level curriculum is significantly more rigorous than standard Class Piano II and is designed for those students who intend to major in music in college. Studied alongside standard-level Piano II students, those enrolled for honors credit will be expected to master considerably more material and present a public performance at the

end of the year. Independent work is a significant component in Piano and Electronic Keyboard: H, so students should be prepared to maintain their discipline and motivation.

PHYSICAL EDUCATION / HEALTH

	Grade Level
Required Courses:	
Physical Education I	9 10 11 12
Physical Education II	9 10 11 12
Health and Wellness Education	9 10 11 12
Elective Courses:	
# Current Health Issues, Athletic Training, First Aid/CPR	9 10 11 12
# Elective PE, Lifeguard Training	9 10 11 12
Elective PE, Officiating 101	10 11 12
Elective PE, Rec Sports	10 11 12
Elective PE, Team Sports	10 11 12
Elective PE, Weight Training Athletic	9 10 11 12
Elective PE, Weight Training General	9 10 11 12

CPR, First Aid, and/or Life Guard certifications offered

Physical Education / Health Department Required Course Descriptions

PHYSICAL EDUCATION I

1 semester course, 1 credit, offered both semesters – *Prerequisites: None* (DOE Course Code: 3542)

This is required of all students. The course includes orientation in physical education, physical fitness, and lifelong recreation activities. *Physical Education I* emphasize health related fitness and developing the skills and habits necessary for a lifetime of activity. This program includes skill development and the application of rules and strategies of complex difficulty in at least three of the following different movement forms: (1) health-related fitness activities (cardio-respiratory endurance, muscular strength and endurance, flexibility, and body composition), (2) aerobic exercise, (3) team sports, (4) individual and dual sports, and (5) recreational games. Ongoing assessment includes both written and performance-based skill evaluations.

Note: Students who need to be excused from P.E. for a short-term problem, such as a bad cold, ear or throat infection, menstrual period, etc., should report to the nurse before school with a note from the parent. A copy of the note will be placed in the student's health record and a copy given to the P.E. teacher. If a student has a health problem which prohibits or limits him/her from active participation in P.E. classes for 2 or more days, a physician's note is necessary to accompany the parent's note. Students have 5 days to bring in a doctor's note. Participation exemptions will only be granted for 5 days prior to receiving the doctor's note. Successful completion of P. E. I is required to graduate.

PHYSICAL EDUCATION II

1 semester course, 1 credit, offered both semesters – *Prerequisites: None* (DOE Course Code: 3544)

This is required of all students. The course includes orientation in physical education, physical fitness, swimming, and individual and team activities. *Physical Education II* emphasizes a personal commitment to lifetime activity and fitness for enjoyment, challenge, self-expression, and social interaction. This course provides students with opportunities to achieve and maintain a health-enhancing level of physical fitness and increase their knowledge of fitness concepts. It includes at least three different movement forms without repeating those offered in *Physical Education I*. Movement forms may include: (1) health-related fitness activities (cardio-respiratory endurance, muscular strength and endurance, flexibility, and body composition), (2) aerobic exercise, (3) team sports, (4) individual and dual sports, and (5) recreational games. This course will also include a discussion of related careers.

Note: Students who need to be excused from P.E. for a short-term problem, such as a bad cold, ear or throat infection, menstrual period, etc., should report to the nurse before school with a note from the parent. A copy of the note will be placed in the student's health record and a copy given to the P.E. teacher. If a student has a health problem which prohibits or limits him/her from active participation in P.E. classes for 2 or more days, a physician's note is necessary to accompany the parent's note. Students have 5 days to bring in a doctor's note. Participation exemptions will only be granted for 5 days prior to receiving the doctor's note. Successful completion of P. E. I is required to graduate.

HEALTH AND WELLNESS EDUCATION

1 semester course, credit, offered both semesters – *Prerequisites: None* (DOE Course Code: 3506)

Health Education is a graduation requirement in all accredited Indiana high schools. *Health Education* classes at Jefferson High School are designed to bring the students' attention to the individual practices necessary for a healthful life, to provide examples of these practices, and to relate scientific principles and facts to everyday living. The following content areas are included in this comprehensive health education program: growth and development, mental and emotional health, community health/environmental health, nutrition, family life education, consumer health, personal health, alcohol and other drugs, intentional and unintentional injury, and health promotion/disease prevention.

PHYSICAL EDUCATION, INDEPENDENT STUDY

1 semester course, 1 credit, 1st semester only– *Prerequisites: None* (DOE Course Code: 3542)

Students may earn one credit for PE I by participating in Independent Study Physical Education. This requires participation in an IHSAA sanctioned sport at Jefferson High School and completion of required independent coursework. This course cannot be retaken if an "F" is earned, and it cannot replace an "F" in *Physical Education I*.

Course Requirements: Students MUST do all of the following

1) Attend 2 fitness testing sessions, date TBD by instructor.
2) Type 4 one-page papers, one paper due each 9-week grading period.
3) Attend 95% of practices and competitions during sport season.
4) Must successfully complete season to head coach's satisfaction.

Physical Education / Health Department Elective Course Descriptions

CURRENT HEALTH ISSUES, ATHLETIC TRAINING, FIRST AID/CPR

1 semester course, 1 credit, offered both semesters – *Prerequisites: Successful completion of Health and Wellness Education* (DOE Course Code: 3508)

This elective class includes Standard First Aid, CPR, and athletic training. The program will include skill development, testing, and certification for First Aid and CPR. It will also include basic knowledge of athletic training, bones, and muscles of the body. This class would be for the student who is interested in athletic training, physical therapy, EMT, or other medical fields.

ELECTIVE PE, OFFICIATING 101

(ELECT PE OF)

1 semester course, 1 credit, offered both semesters – *Prerequisites: Satisfactory completion of PE I (DOE Course Code: 3560)*

This elective is designed to train students interested in becoming an IHSAA official. The course allows students the opportunity to develop communication, management, and leadership skills while providing an avenue for employment during high school as well as after graduation. Students will have online and real-time training along with actual officiating experience throughout the semester. Students have the opportunity to earn a provisional license through IHSAA that allows them to work at athletic events such as, middle school games, inter-squad games, and youth games to gain experience, confidence, and money. There are many opportunities to work in the local community. When students with a provisional license turn 18 years of age AND have graduated from high school, the students can receive their professional IHSAA officials license. An IHSAA officials license offers possibilities for future earnings throughout the life of the students as well as staying connected to the sports they love.

ELECTIVE PE, LIFEGUARD TRAINING #
(ELECT PE LT)

1 semester course, 1 credit, offered 2nd semester only – *Prerequisites: Satisfactory completion of Physical Education II; must be able to complete a 200-yard swim and tread water for 1 minute* (DOE Course Code: 3560)

This course includes Standard First Aid and CPR for the professional rescuer. This class will emphasize the above and the training to be a certified lifeguard. The program will include skill development, testing, and certification for Lifeguarding, First Aid, and CPR. The class will serve as a community service to develop lifeguards for our city pools, private residential pools, university pools, and a pool of guards for our basic PE swimming classes.

ELECTIVE PE, REC SPORTS
(ELECT PE RS)

1 semester course, 1 credit, offered both semesters (may be taken only once) – *Prerequisites: Satisfactory completion of Physical Education I and II* (DOE Course Code: 3560)

This elective course includes golf, badminton, softball, volleyball, tennis/pickleball, bowling, and lecture and demonstration of the basic skills involved in outdoor and indoor recreational activities. An emphasis is placed on cardiovascular fitness development.

ELECTIVE PE, TEAM SPORTS
(ELECT PE TS)

1 semester course, 1 credit, offered both semesters (may be taken only once) – *Prerequisites: Satisfactory completion of Physical Education I and II* (DOE Course Code: 3560)

This elective course includes softball, touch football, volleyball, basketball, and other team activities, as well as the fundamentals and strategies in athletic officiating. Cardiovascular fitness is emphasized.

ELECTIVE PE, WEIGHT TRAINING (Athletes)
(ELECT PE WT)

1 semester course, 1 credit, offered both semesters (may be taken more than once) – *Prerequisites: Physical Education I or II or concurrent enrollment and recommendation of a head athletic coach* (DOE Course Code: 3560)

This elective course is designed to develop strength, explosive power, flexibility, agility, coordination, quickness, speed, muscular endurance, and cardiovascular endurance. Fitness activities will be specialized for the student's sport. Seniors may only take this class 1st semester. Any student who has previously failed this class must have instructor's permission to re-take it.

ELECTIVE PE, WEIGHT TRAINING, (General)
(ELECT PE WTN)

1 semester course, 1 credit, offered both semesters (may be taken more than once) – *Prerequisites: PE 1 or summer PE* (DOE Course Code: 3560)

This elective course offers student work towards the achievement of individual fitness. The emphasis is on the health-related components of cardiovascular fitness, muscular strength, endurance, and flexibility. Any student who has previously failed this class must have instructor's permission to re-take it.

SCIENCE

	Grade Level
Science Courses	
Earth and Space Science I	9 10 11 12
Biology I	9 10 11 12
Adv Sci - Zoology	10 11 12
Integrated Chemistry-Physics:	10 11 12
Physics I	10 11 12
Chemistry I	10 11 12
Adv Sci - Astronomy	11 12
Adv Sci - Genetics	11 12
Adv Sci – Geology (odd years)	11 12
Adv Sci – Meteorology (even years)	11 12
Adv Sci – Environmental Issues	9 10 11 12
Honors Science Courses	
⧫ Anatomy and Physiology H	10 11 12
⧫ Earth and Space Science I, H	9 10 11 12
(SA) Biology I, H	9 10
Adv Sci – Zoology H	10 11 12
(SA) Chemistry I, H	10 11 12
Adv Sci – Genetics H	11 12
(SA) Physics I, H	10 11 12
Science Research, Independent Study - H	9 10 11 12
Advance Placement Science Courses	
(SA) ⧫ Biology, AP	11 12
(SA) Chemistry, AP	11 12
(SA) ⧫ Environmental Science, AP	11 12
(SA) AP Physics 1: Algebra-Based (L)	11 12
(SA) AP Physics 2: Algebra-Based (L)	12

⧫ Dual Credit available from Ivy Tech
~ Dual Credit available from Indiana University
(SA) Summer Assignment

Science Department Course Descriptions

ADVANCED SCIENCE, SPECIAL TOPICS, ASTRONOMY

1 semester course, 1 credit, offered 2nd semester annually PAIRED WITH GEOLOGY OR METEROLOGY – *Prerequisites: One year of Chemistry or Physics with a grade of "C" or better, OR one year of Integrated Chemistry and Physics with a grade of "B" or better* (DOE Course Code: 3092)

This is a laboratory course.

The *Astronomy* course provides for examination of our own solar system and two heavenly bodies which are of special interest, the sun and the moon. Study is made of such space-related concepts as time, light, and navigation. Time is given also to a study of the stars, constellations, galaxies, nebulae, and, finally, how all of these things relate to the contemporary subject of space travel and the problems involved.

ADVANCED SCIENCE, SPECIAL TOPICS, ENVIRONMENTAL ISSUES

Full year course, 1 credit per semester (semesters cannot be taken out of sequence) – *Prerequisites: None* (DOE Course Code: 3092)

This is a laboratory course.

Environmental Issues is interdisciplinary by nature. The course will provide opportunities for students to investigate how Earth systems interact with and are affected by human decisions. Students will incorporate elements of life and physical sciences to evaluate current issues in environmental science as well as the social, political, geographic, and cultural solutions to those issues. Field-based experiences, laboratory exercises, and contemporary research-based environmental media will be used to help students investigate the issues and solutions. The students will work in groups on a service-learning project throughout the year. This course fulfills Graduation requirement box B *Employability Skills* Choice B, *Service-based Learning*.

ADVANCED SCIENCE, SPECIAL TOPICS, GENETICS

Full year course, 1 credit per semester (semesters can be taken individually or out of sequence) – *Prerequisites: Biology I; must have passed Chemistry I, or be currently enrolled in Chemistry I* (DOE Course Code: 3092)

This is a laboratory course.

In the 1st semester of Genetics, students learn about Mendelian and non-Mendelian genetics, multifactorial inheritance, the chemistry of chromosomes, DNA, and proteins, and mitosis and meiosis. In the 2nd semester, students learn about bioethics, biotechnology, and population genetics. Even though this course is especially useful for students with career interests in medicine or biology, students with a variety of interests are always welcome.

ADVANCED SCIENCE, SPECIAL TOPICS, GENETICS H

Full year course, 1 credit per semester (semesters can be taken individually or out of sequence) - *P*rerequisites: *Biology I H; must have passed Chemistry I or be currently enrolled in Chemistry I* (DOE Course Code: 3092)

The concepts covered in Genetics are identical to those covered in Genetics Honors, although the depth of content and assignment/test/exam expectations are greater in Genetics Honors.

ADVANCED SCIENCE, SPECIAL TOPICS, GEOLOGY

1 semester course, 1 credit, offered 1st semester in odd years PAIRED WITH ASTRONOMY – *Prerequisites: Successful completion of one year of Chemistry or Physics OR one year of Integrated Chemistry-Physics with grades of "C" or better* (DOE Course Code: 3092)

This is a laboratory course.

This is a one-semester course designed to give students an opportunity to study the Earth's geologic forces through time. Although study is made of general processes, careful attention is paid to their effects on the landforms which surround this area. Students will interpret the geologic histories of local areas of interest through in-depth, on-site investigations. Some field work will be required for successful completion of this course.

ADVANCED SCIENCE, SPECIAL TOPICS, METEOROLOGY

1 semester course, 1 credit, offered 1st semester in even years PAIRED WITH ASTRONOMY – *Prerequisites: Successful completion of one year of Chemistry or Physics or one year of Integrated Chemistry-Physics with grades of "C" or better* (DOE Course Code: 3092)

This is a laboratory course.

Meteorology is a one-semester course designed to give students an opportunity to study the Earth's atmosphere in detail. Computer modeling, remote sensing information, and direct observation are used to develop a more complete understanding of weather phenomena. This course provides for an in-depth investigation of climatology, the structure and composition of the atmosphere, and severe weather, as well as forecasting.

ADVANCED SCIENCE, SPECIAL TOPICS, ZOOLOGY

Full year course, 1 credit per semester (semesters can be taken individually or out of sequence) – *Prerequisites: Biology I ("C" or better both semesters)* (DOE Course Code: 3092)

This is a laboratory course.

This year course is intended to provide an overview of the animal kingdom. Related concepts will be explored through formal laboratory write ups, science journaling, classroom lectures, laboratory explorations, research assignments, and testing. The general focus of the course centers on the evolutionary connections between animal groups. The 1st semester focuses on invertebrate zoology while the 2nd semester focuses on vertebrate zoology. A strong background or interest in reading and writing for science content is necessary. Students who are interested in taking these semesters out of sequence should talk with a Zoology teacher first.

ADVANCED SCIENCE, SPECIAL TOPICS, ZOOLOGY H

Full year course, 1 credit per semester (semesters can be taken individually or out of sequence) – *Prerequisites: Biology I ("C" or better both semesters)* (DOE Course Code: 3092)

Zoology Honors goes into more depth than the general *Zoology* course listed above. Additionally, students enrolled in *Honors Zoology* will complete an independent research project each semester. There is no summer assignment.

ANATOMY AND PHYSIOLOGY H

Full year course, 1 credit per semester (semesters cannot be taken out of sequence) – *Prerequisites: Successful completion of Biology I or Biology H with a grade of "B" or better each semester, and is currently taking Chemistry I or Chemistry I H, or has taken Chemistry I or Chemistry I H with a grade of "C" or better each semester* (DOE Course Code: 5276)

This is a laboratory course.

This two-semester course in human *Anatomy and Physiology H* focuses on the aspects of the cell, the language of anatomy, levels of organization, and the following systems: skeletal, muscular, nervous, circulatory, immune, endocrine, digestive, and respiratory. Additionally, students will investigate various issues associated with the modern practice of medicine. Students will learn these concepts through a variety of activities including labs, videos, large group lectures, reading assignments, homework assignments, and projects. Dual Credit available through Ivy Tech.

BIOLOGY I

Full year course, 1 credit per semester – *Prerequisites: None.* (DOE Course Code: 3024)

This is a laboratory course.

Biology I focus on the main pillars of modern biology: the nature of science, ecology, cell biology, genetics, and evolution. Students learn these concepts through a variety of activities including labs, computer tutorials and simulations, small group discussions, large group lectures, homework assignments, and projects.

BIOLOGY I H

Full year course, 1 credit per semester – *Prerequisites: Students should have passed or currently be enrolled in Algebra I* (DOE Course Code: 3024) (SA)

In addition to following the course content as listed above for *Biology I,* students wishing to earn credit for *Biology 1 H (Honors)*, are required to conduct a teacher-approved independent science research project following the *Intel International Science and Engineering Fair* guidelines. This research project counts for 20% of the second 9-weeks grade and 20% of the fourth 9-weeks grade. Attendance at the *Lafayette Regional Science and Engineering Fair* is a requirement of this class.

BIOLOGY, AP

Full year course, 1 credit per semester – *Prerequisites: Biology I with a grade of "B" or better each semester, Chemistry I H with a grade of "B" or better each semester or Chemistry I with a grade of "A". Recommended students should have passed or currently be enrolled in Physics I or Physics I H.* (DOE Course Code: 3020) (SA)

This is a laboratory course.

Advanced Placement (AP) Biology is a second year Biology course which meets the requirements of Core 40 and the Academic Honors Diploma. A summer assignment will ensure students are entering the course with the basic background knowledge needed to achieve success.

AP Biology follows the *College Board Entrance Examination Guidelines*. The College Board states, Advanced Placement Biology is a course which "provides students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology." This course will cover specific content within the topic areas of *Molecules and Cells*, *Heredity and Evolution*, and *Organisms and Populations*. This is a time-intensive course which demands a high aptitude and achievement in all Prerequisites accompanied with a strong work ethic. Dual Credit available through Ivy Tech.

Note: JHS will NOT be offering the AP Exam for AP Biology

CHEMISTRY I

Full year course, 1 credit per semester – *Prerequisites: Successful completion of Biology I and Algebra I and have taken or are currently enrolled in a second year of Core 40 high school mathematics (examples: Algebra II, Geometry); students must pass the 1st semester of Chemistry I in order to be admitted into the 2nd semester* (DOE Course Code: 3064)

This is a laboratory course.

Chemistry I meet the requirements of Core 40 and Academic Honors Diploma. *Chemistry I* is an elective course for students who intend to go on to college or technical school and who are NOT planning to major in science, engineering, mathematics, or medicine in their post-secondary studies. *Chemistry I* is time-intensive, requiring students to complete problems and write reports daily. Students should show a history of regular attendance and demonstrate strong self-motivation.

CHEMISTRY I H

Full year course, 1 credit per semester – *Prerequisites: Students must have "C" or better in: Biology I; Algebra I; either Algebra II CP or II H, or Geometry I CP or I H. Students must have passed or currently be enrolled in a third year of Core 40 high school math (examples: Algebra II, Geometry I, Pre-Calculus, Calculus, Statistics). Students must pass the 1st semester of Chemistry I H in order to be admitted into the 2nd semester* (DOE Course Code: 3064) (SA)

This is a laboratory course.

Chemistry I H meets the requirements of Core 40 and the Academic Honors Diploma. *Chemistry I H* is an elective course for students who are planning college majors in the sciences, engineering, mathematics, architecture, or the medical fields. The course places a strong emphasis on problem solving, mathematics, and memorization. Mathematical relationships are stressed, so students must have a firm grasp of algebra and geometry fundamentals. Applications of chemistry in the real world are stressed. Laboratory work, instrumentation, techniques, and safety are strong components of the course. *Chemistry I H* is time-intensive, requiring students to complete problems and write reports daily. Students should show a history of regular attendance and demonstrate strong self-motivation.

CHEMISTRY, AP

Full year course, 1 credit per semester – *Prerequisites: Grades of "B" or better in all of these: one year of Algebra I, one year of Algebra II CP or H, one year of Geometry CP or H, one year of Chemistry H or Chemistry with an A. Students must have taken or be currently enrolled in PreCalculus. Students must pass the 1st semester of the respective course in order to be admitted into the 2nd semester. It is strongly recommended that students enrolled in either of these two courses be currently enrolled in or have already completed either Honors Physics I or A.P. Physics I. The A.P. Chemistry course syllabus has been audited and approved by the College Board.* (DOE Course Code: 3060 AP Chemistry) (SA)

These are laboratory courses.

These courses are second year Chemistry courses which meet the requirements of Core 40 and the Academic Honors Diploma. *AP Chemistry* and *College Credit Chemistry* are both time-intensive courses. College textbooks are used; college level work is expected. Students who enroll in either of these courses should have demonstrated high aptitude and achievement in the prerequisites.

EARTH AND SPACE SCIENCE I

Full year course, 1 credit per semester – *Prerequisites: Students should have passed or currently be enrolled in a high school level Math course.* (DOE Course Code: 3044)

This is a laboratory course.

Earth Science is taught through a study of man's environment, which offers a unifying purpose and continuum that relates all of the subject matter. Energy, matter, space, and time can be put into perspective through an inquiry-centered study of the student's environment on Earth, thus providing the student with a solid background of knowledge that can be drawn upon when confronted with current and future environmental issues. Relevancy is the course's prevalent theme as Earth science takes the study of science out of the test tube and into the real world surrounding the student.

EARTH AND SPACE SCIENCE I H

Full year course, 1 credit per semester – *Prerequisites: Students should have passed or currently be enrolled in Algebra I* (DOE Course Code: 3044)

This is a laboratory course.

In addition to following the course content as listed above for Earth and Space Science I, Honors Earth science is an intensive examination of physical geology, historical geology, meteorology, astronomy, and selected environmental issues, with emphasis on application. This course is designed for the academically advanced student and will stress experimental design, the quantitative and qualitive analysis of collected data, and problem-solving techniques. The depth and breadth of the material will be greater than in the standard course, chapter reading, observational homework, and field work will be a required part of successful course completion. Students should show a history of regular attendance and demonstrate strong self-motivation. Dual Credit available through Ivy Tech.

ENVIRONMENTAL SCIENCE, AP

Full year course, 1 credit per semester – *Prerequisites: Biology I with a "B" or better; one year of a physical science lab course (Physics I, Chemistry I, Earth Science I, or ICP); successful completion of Algebra I with a "B" or better* (DOE Course Code: 3012) (SA)

This is a laboratory course.

The goal of the *Advanced Placement (AP) Environmental Science* course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them.

This is a year-long course designed to be the equivalent of a one semester, introductory level college course. We strive to prepare students to perform well on the AP Environmental Science Exam as well as become lifelong learners and advocates for a sustainable living world. The class is lab based, with field, in-classroom, and technological components. Students investigate and analyze environmental systems and problems and the human impact on these. Dual credit available through Ivy Tech.

INTEGRATED CHEMISTRY-PHYSICS

2 semester course (1 semester of Chemistry and 1 semester of Physics), 1 credit per semester, both ICP Chemistry and ICP Physics are offered each semester – *Prerequisites: Passed Biology I and passed Algebra I or Integrated Mathematics II.* (DOE Course Code: 3108)

This is a laboratory course.

Integrated Chemistry and Physics (ICP) is an elective course which meets the requirements of the Core 40 Diploma. Each semester is an overview of the topics covered in the full-year course, giving a solid foundation for sophomores or juniors who plan to follow ICP with a year of Chemistry, or Physics, or both. Topics for physics include forces, motion, energy, electricity, magnetism, and waves. Topics for chemistry include atomic structure, the periodic table of elements, chemical reactions, and nuclear energy.

Students who do not pass the 1st semester of *Chemistry I* may enroll in *ICP Chemistry* as their 2nd-semester course. Students who do not pass the 1st semester of *Physics I* may enroll in ICP Physics as their 2nd-semester class.

Laboratory work is a strong component of the course and has required portions for successful completion. Students who successfully complete *ICP* should be prepared for further *Chemistry* or *Physics* coursework here at Jefferson High School.

PHYSICS I

Full year course, 1 credit per semester – *Prerequisites: Successful completion of Biology I and Algebra I and have taken or are currently enrolled in a second year of Core 40 high school mathematics (examples: Algebra II, Geometry); students must pass the 1st semester of Physics I in order to be admitted into the 2nd semester* (DOE Course Code: 3084)

This is a laboratory course.

Physics I meets the requirements of Core 40 and the Academic Honors Diploma. It is an elective course designed for sophomores, juniors, and seniors who intend to go on to college or technical school but may not be planning to major in science, engineering, mathematics, or medicine in their post-secondary studies. *Physics* is the study of matter and energy. Scientific measurement, laws of motion, work and power, energy, heat, light, sound, electricity, magnetism, and modern physics are studied. Laboratory work is an important component of the course. Students should have a firm grasp of algebra concepts, be highly motivated, and should show a history of regular attendance.

PHYSICS I H

Full year course, 1 credit per *semester – Prerequisites: grades of "C" or better in Algebra I and Geometry CP or H; Passing grades in Biology I, and another year of high school laboratory science; recommended Chemistry I and/or Earth and Space Science I. Students must have passed or currently be enrolled in in second full year of Algebra (Algebra II). Students must pass the 1st semester of Physics I H for admission into the 2nd semester* (DOE course code 3084) (SA)

This is a laboratory course.

Physics 1, H meets the requirements of Core 40 and the Academic Honors Diploma. *Physics I H* is an elective course designed for juniors and seniors who intend to go on to college or technical school and who are planning to major in science, engineering, mathematics, or medicine in their post-secondary studies. The courses place a strong emphasis on problem solving and mathematics. Measurements, laws of motion, work and power, energy, light, electricity, magnetism, atomic and kinetic theories, and nuclear physics are considered. Theoretical concepts and their related mathematical applications are stressed, so students must have a firm grasp of algebra and geometry fundamentals. Laboratory work, instrumentation, techniques, and safety are strong components of the course. Physics I H is time intensive, requiring students to complete problems and write reports daily. Students would show a history of regular attendance and demonstrate strong self-motivation.

AP PHYSICS 1: ALGEBRA-BASED (L)

Full year course, 1 credit per semester – *Prerequisites: Passing grades in Biology I and another year of high school laboratory science; recommended Chemistry I and/or Earth and Space Science I; Algebra I, Algebra II, and Geometry; one year Pre-Calculus passed or at the same time. Students must pass 1st semester of AP Physics 1: Algebra-Based to take the 2nd semester* (DOE Course Code 3080 PHYS 1 AP) (SA)

AP Physics 1: Algebra-Based is a first-year physics course. It meets the requirements of Core 40 and the Academic Honors Diploma. College level textbooks and materials are used; college level work is expected. The College Board considers AP Physics 1: Algebra-Based as the equivalent of first-semester college course in algebra-based physics which is designed to be taught over a full academic year to enable AP students to develop deep understanding of the content and to focus on applying their knowledge through inquiry labs. The full year also allows time for inclusion of physics content specified by state standards. The course (updated in Fall 2021) covers Kinematics, Dynamics, Circular Motion and Gravitation, Energy, Momentum, Simple Harmonic Motion, and Torque and Rotational Motion. Additional details are available from The College Board website: https://apcentral.collegeboard.org/courses/ap-physics-1

Students may take AP Physics 1 as either a first year or second year course. Please see the Curriculum Documents for this course for further information.

This course has an assignment that is to be completed during the summer before the student takes the course. See the teacher's webpage for the summer assignment or contact the teacher for details.

AP PHYSICS 2: ALGEBRA-BASED (L)

Full year course, 1 credit per semester – *Prerequisites: Passing grades in Biology I and another year of high school laboratory science; recommended Chemistry I and/or Earth and Space Science I; Algebra I, Algebra II, and Geometry; one year Pre-Calculus passed or at the same time; Physics I H or AP Physics 1 Algebra-Based. Students must pass 1st semester of AP Physics 2: Algebra-Based to take the 2nd semester* (DOE Course Code: 3081 PHYS 2 AP) (SA)

AP Physics 2: Algebra-Based is a second year physics course. It meets the requirements of Core 40 and the Academic Honors Diploma. College level textbooks and materials are used; college level work is expected. The College Board considers AP Physics 2:Algebra-Based as the equivalent of second-semester college course in algebra-based physics which is designed to be taught over a full academic year to enable AP students to develop deep understanding of the content and to focus on applying their knowledge through inquiry labs. The full year also allows time for inclusion of physics content specified by state standards. The course (updated in Fall 2020) covers Fluid Mechanics, Thermodynamics, Electricity and Magnetism, Optics, Atomic and Nuclear Physics. Additional details are available from The College Board website: https://apcentral.collegeboard.org/courses/ap-physics-2

This course has an assignment that is to be completed during the summer before the student takes the course. See the teacher's webpage for the summer assignment or contact the teacher for details.

SCIENCE RESEARCH, INDEPENDENT STUDY - HONORS

Full year course, 1 credit per semester (may be repeated for more than one year) – *Prerequisites: Current enrollment in Chemistry I or I H or have passed the 1st semester of Chemistry I or I H Recommended students should have passed or currently be enrolled in Physics I or Physics I H.* (DOE Course Code: 3008)

This is a laboratory course.

The purpose of this course is to allow students with a strong interest in science to conduct independent scientific research. Students are expected to present the finished product in one or more science fair competitions. A student's acceptance into the course is determined by a screening committee based upon information gathered from the following: a letter of application from the student, consistent achievement test scores in science at or about the 95th percentile or a composite score at or above the 92nd percentile, attendance records, grades, the *Secondary Science Teacher's Referral*, which is filled out by the candidate's former or present science teacher, and an interview with the high school honors science research teacher.

SOCIAL STUDIES

	Grade Level			
Required Courses:				
United States History OR				
United States History, AP			11	
United States Government OR				12
United States Government & Politics, AP			11	12
Economics OR				12
Microeconomics, AP			11	12
Geography and History of the World OR	9	10		
World History and Civilization OR	9	10	11	12
World History Modern, AP	9	10	11	12
Elective Courses:				
Community Service			11	12
Current Problems, Issues, and Events		10	11	12
Ethnic Studies	9	10	11	12
Indiana Studies	9	10	11	12
Law Education		10	11	12
Peer Tutoring		10	11	12
Topics in Social Sciences (TSS)				
TSS, Global Studies		10	11	12
TSS, Introduction to Philosophy		10	11	12
TSS, Military History		10	11	12
Psychology, AP			11	12
Sociology			11	12
Psychology			11	12

Alphabetical List of Social Studies Department Course Descriptions

COMMUNITY SERVICE

1 semester course, 1 or 2 credits, offered both semesters, may be taken more than once – *Prerequisites: Students must write an essay and receive teacher approval in order to be considered for this course; class size is limited to 25* (DOE Course Code: 0524)

Service Learning is offered as a social studies elective whose activities blend community service and learning activities so that both occur and are enriched by the other. Students participating in service learning programs perform a needed community service that builds, utilizes, or provides a framework for academic and civic skills, abilities, and competencies. The services can be provided within school walls or in the community, and would not normally happen if the students were not doing them. As part of the course, students are required to serve for a minimum of 50 hours and to keep a daily journal. **STUDENTS MUST HAVE THEIR OWN TRANSPORTATION.**

Students may only earn two credits from this class toward graduation requirements. Once two credits have been earned, students may retake the course; however, those credits will not count toward graduation requirements.

CURRENT PROBLEMS, ISSUES, AND EVENTS

1 semester course, 1 credit, offered both semesters – *Prerequisites: Successful completion of Geography and History of the World or World History with a grade of "C" or better each semester* (DOE Course Code: 1512)

Current Problems, Issues, and Events (CPIE) is offered as a social studies elective and provides the student planning on pursing a postsecondary education with the opportunity to apply techniques of investigation and inquiry to the study of significant problems or issues. This is a participation class in which students are expected to express well researched opinions, viewpoints, and examine different sides of issues. Reading/writing and research is REQUIRED throughout the semester.

ECONOMICS

1 semester course, 1 credit, offered both semesters – *Prerequisites: None* (DOE Course Code: 1514)

Economics is taught based on learning styles and student skill levels. *Economics* investigates the specific economic effects of market forces and government policies on individuals and major institutional groups within the American economy. Students examine basic economic concepts and models of decision making at various levels and in different areas including: (1) decisions made as a consumer, producer, saver, investor, and voter; (2) business decisions to maximize profits; and (3) public policy decisions in specific markets dealing with output and prices in the national economy.

ETHNIC STUDIES

1 semester course, 1 credit, offered both semesters – *Prerequisites: None* (DOE Course Code: 1516)

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

GEOGRAPHY AND HISTORY OF THE WORLD

Full year course, 1 credit per semester – *Prerequisites: None* (DOE Course Code: 1570)

Geography and History of the World is recommended for students who do NOT plan on pursuing a FOUR-year postsecondary degree. The course includes the practical use of geographical and historical skills and concepts to deepen the student's understanding of global themes. The core of the curriculum will include history; civics and government; geography; economics; and individuals, society, and culture.

INDIANA STUDIES

1 semester course, 1 credit, offered both semesters – *Prerequisites: None* (DOE Course Code: 1518)

Indiana Studies is an integrated course that compares and contrasts state and national developments in the area of politics, economics, history, and culture. The course uses Indiana history as a basis for understanding current policies, practices, and state legislative procedures. It also includes 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 students will examine the participation of citizens in the political process. Selections from Indiana arts and literature may also be analyzed for insight into historical events and cultural expressions.

LAW EDUCATION

1 semester course, 1 credit, offered both semesters – *Prerequisites: Successful completion of Geography and History of the World or World History with a grade of "C" or better each semester* (DOE Course Code: 1526)

Law Education is offered as a social studies elective that uses a college level textbook; therefore, students taking this course must have strong reading/writing and comprehension skills. The course is designed to provide students with an understanding of the American legal system and its basis in the United States constitution. The course content promotes an understanding of society and its system of laws by indicating how citizens may effectively function within the law.

MICROECONOMICS, AP

Full year course, 1 credit per semester – *Prerequisites: Student must have passed Algebra I, Algebra II, and all other social studies courses with a grade of "B" or better each semester* (DOE Course Code: 1566)

Advanced Placement (AP) Microeconomics is taught using a college textbook; college level work is expected and required to be successful. The course is designed to provide the highly motivated student with a thorough understanding of the principles of economics that apply to the functions of individual decision-making, both as consumers and producers, within the larger economic system. It places primary emphasis on the nature and functions of product markets, and includes the study of factor markets and the role of government in promoting greater efficiency and equity in the economy. In the spring semester, the course will provide an introduction to concepts of macroeconomics, including a study of national income and price-level determinations, economic growth, and international economies. College credit can be earned through the Advanced Placement Exam.

PEER TUTORING

1 semester course, 1 or 2 credits, offered both semesters, may be taken more than once – *Prerequisites: Students must write an essay and receive teacher approval in order to be considered for this course; class size is limited to 25* (DOE Course Code: 0520)

Peer Tutoring is offered as a social studies elective for students who are good role models, have no visible tattoos or body piercings, and who are committed to attending class every day. The course provides such students with an organized exploratory experience to assist students in grades K-12, through a helping relationship with their studies and personal growth and development. Students taking the course will develop a basic understanding of individual differences and explore career options in related fields. *Peer Tutoring* experiences are preplanned by the teacher trainer and any cooperating teacher under whom the tutoring is to be provided. It must be conducted under the supervision of a licensed teacher. **STUDENTS MUST HAVE THEIR OWN TRANSPORATION**.

Students may only earn two credits from this class toward graduation requirements. Once two credits have been earned, students may retake the course; however, those credits will not count toward graduation requirements.

PSYCHOLOGY

1 semester course, 1 credit, offered both semesters – *Prerequisites: Student must have passed all other social studies courses with a grade of "C" or better each semester* (DOE Course Code: 1532)

Psychology is offered as a social studies elective that uses a college level textbook and is recommended for students planning to pursue a postsecondary education. Therefore, students taking this course must have strong reading/writing and comprehension skills. *Psychology* is intended to provide the highly motivated student with a general knowledge of the development of psychology as a science, physiology and behavior, learning, motivation and emotion, personality development, stress and adjustment, abnormal psychology, and psychological testing.

PSYCHOLOGY, AP

Full year course, 1 credit per semester – *Prerequisites: Student must have passed all other social studies courses with a grade of "B" or better each semester* (DOE Course Code: 1558)

Advanced Placement (AP) Psychology is taught as a social studies elective using a college level textbook; college level work is expected and required to be successful. The course will introduce the highly motivated student to the systematic and scientific study of behavior and the mental processes of human beings. Students will be exposed to psychological facts, principles, and phenomena associated with each of the major fields of psychology as well as the methods psychologists use in their research and practice. College credit can be earned through the Advanced Placement Exam.

SOCIOLOGY

1 semester course, 1 credit, offered both semesters – *Prerequisites: Student must have passed all other social studies courses with a grade of "C" or better each semester* (DOE Course Code: 1534)

Sociology is taught as a social studies elective that uses a college level textbook and is recommended for students planning on pursuing a postsecondary education. Therefore, students taking this course must have strong reading/writing and comprehension skills. The course will introduce the highly motivated student to the study of the human individual and his or her relationship to the group. Emphasis will be on the study of the social self, social structure, culture, race and ethnic relations, and social institutions and their problems.

TOPICS IN SOCIAL SCIENCES, INTRODUCTION TO PHILOSOPHY

1 semester course, 1 credit, offered both semesters – *Prerequisites: Successful completion of Geography and History of the World or World History of "C" or better each semester* (DOE Course Code: 1550)

Philosophy is offered as a social studies elective and provides the student planning to pursue a postsecondary education with the opportunity to examine several important philosophical texts and philosophers. The general aim is to investigate and understand the philosophical foundations of human life within a society. Students will be challenged to rethink their perceptions in terms of philosophical discourse as well as to discuss and apply the ideas so as to have implications for their lives.

TOPICS IN SOCIAL SCIENCES, MILITARY HISTORY

1 semester course, 1 credit, offered both semesters – *Prerequisites: Successful completion of Geography and History of the World or World History for each semester with a desire to enter military service* (DOE Course Code: 1550)

Military History is offered as a social studies elective that emphasizes the changing nature of warfare from ancient times to the modern era as nations adjust to social, political, economic, and technological developments. With an overview of definitions and functions of theory and, in particular, how military theory forms the foundations of modern military thought, students will be introduced to the nature, structure, and functions of military doctrine and modern military thought as well as the relationship between military theory, military history, and military doctrine.

UNITED STATES GOVERNMENT

1 semester course, 1 credit, offered both semesters – *Prerequisites: Successful completion of U.S. History for each semester* (DOE Course Code: 1540)

United States Government is taught based on learning styles and student skill level. *United States Government* provides a framework for understanding the nature and Importance of responsible civic participation and for learning the rights and responsibilities of individuals in a constitutional democracy. Students will explore the historic origins and evolution of political philosophies into contemporary political and legal systems. Constitutional structure and the processes of the three branches of the national, state, and local levels of government are examined as well as the student's ability to influence policies and decisions as individuals and in groups.

UNITED STATES GOVERNMENT AND POLITICS, AP

Full year course, 1 credit per semester – *Prerequisites: Student must have passed all other social studies courses with a grade of "B" or better each semester* (DOE Course Code: 1560)

Advanced Placement (AP) United States Government and Politics is taught using a college level textbook; college level work is expected and required to be successful. The course will provide the highly motivated student with a comprehensive study of the government of the United States. It is designed to increase student understanding of the three branches of government along with an intensive study of the Constitution of the United States. Other areas of study include political parties and their development, civil rights, and landmark cases of the United States Supreme Court. College credit can be earned through

the Advanced Placement Exam. Dual Credit may be available through Ivy Tech course number POLS 101.

UNITED STATES HISTORY

Full year course, 1 credit per semester – *Prerequisites: None* (DOE Course Code: 1542)

United States History covers the history of the U.S. from 1850 to present and builds on concepts learned in the student's prior studies of American history. Major emphasis is given to increasing student understanding of the interaction of historical events and geographic, social, and economic influences on national development of the United States and how these personally impact the student today.

UNITED STATES HISTORY, AP

Full year course, 1 credit per semester – *Prerequisites: Student must have passed all other social studies courses with a grade of "B" or better each semester, offered to 11th and 12th grade (sophomores may be considered with referrals).* (DOE Course Code: 1562)

Advanced Placement (AP) United State History uses collegiate level materials requiring college level work to be successful. The course will provide the highly motivated student with a comprehensive study of US History including the cultural, economic, political, and social developments that have shaped the United States from c. 1491 to the present and is designed to increase student understanding from discovery to present day. Skills developed include evaluating primary and secondary sources; analyzing the claims, evidence, and reasoning you find in sources; placing historical developments in context and making connections between them, and coming up with a claim or thesis in writing. Analyzing texts, visual sources, and other historical evidence, and writing essays expressing historical arguments are common. Areas of concentration include historical, political, and economic history coupled with an intense study of cultural and intellectual institutions and their development. College credit can be earned through the Advanced Placement Exam.

WORLD HISTORY AND CIVILIZATION

Full year course, 1 credit per semester – *Prerequisites: None* (DOE Course Code: 1548)

World History and Civilization is recommended for students planning to pursue a postsecondary education and who have strong reading/writing and comprehension skills. Therefore, it is STRONGLY recommended to WAIT until at least the sophomore year to take this course, but it can be taken as a freshman if the student's prior social studies grades were a "B" or better each semester or the student has counselor approval. *World History and Civilization* provides a basis for students to compare and analyze patterns of culture, emphasizing both the diversity and commonality of human experience and behavior from the dawn of man until now. The course emphasizes the interaction of local cultures with the natural environment, as well as the connections among civilizations from the earliest times to the present by studying a variety of World History themes.

WORLD HISTORY MODERN, AP

Full year course, 1 credit per semester – *Prerequisites: It is strongly recommended that students have demonstrated superior achievement in previous English and Social Studies courses* (DOE Course Code: 1612)

In AP World History: Modern, students investigate significant events, individuals, developments, and processes from 1200 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change over time. The course provides six themes that students explore throughout the course in order to make connections among historical developments in different times and places: humans and the environment, cultural developments and interactions, governance, economic systems, social interactions and organization, and technology and innovation.

SPECIAL EDUCATION

Courses:
English 9B
English 10B
Integrated Mathematics IB
Integrated Mathematics 1 Lab
Integrated Mathematics II B
Resource Room
Applied Skills
Work Based Learning (ICE)

Special Education Department Course Descriptions

ENGLISH 9B

Full year course, 1 credit per semester – *Prerequisites: English 9, none; English 9 OTP, test scores and teacher recommendation* (DOE Course Code: 1002)

English 9 is taught in different classes based on learning styles and student skill level. It is designed to help students establish a foundation in language arts that will enable them to succeed in future English classes. By providing students with the opportunity to study and practice the five language arts strands, the course will reinforce skills they have already learned as well as introduce new ones. This holistic approach to the study of English enables students to see the relationships between reading, writing, and speaking. *English 9* students further develop their use of language as a tool for learning and thinking and as a source of pleasure. Students practice identifying, analyzing, and composing with different elements, structures, and genres of written and oral language. An additional emphasis of each course is to strengthen students' performance of the essential skills in language arts determined by the state of Indiana and measured on end of course assessments.

ENGLISH 10B

Full year course, 1 credit per semester – *Prerequisites: English 10, students should have successfully completed English 9 to enroll; English 10 OTP, successful completion of the earlier courses in this sequential program or teacher recommendation* (DOE Course Code: 1004)

English 10 is taught in different classes based on learning styles and student skill level. It focuses upon building and expanding skills learned in *English 9*, while also introducing new concepts that will aid in the students' decisions to take tech prep or college prep English during their junior year. The course curriculum achieves this by integrating the five language arts strands through the study of literature from cultures around the world. This foundation includes both written and oral communication skills from a wide variety of perspectives. Special emphasis is placed on informative and persuasive communication. In addition, each *English 10* course provides students with practical and working knowledge of standards and skills assessed on Indiana's *English 10* ECA.

INTEGRATED MATHEMATICS IB

Full year course, 1 credit per semester – *Prerequisites: (Open to 9th, 10th, & 11th grade students on a General Diploma track). 1st semester, teacher recommendation and/or case conference decision; 2nd semester, passing grade in 1st semester. (DOE Course Code 2554)*

Integrated Mathematics I formalizes and extends the mathematics students learned in the middle grades. This course is for those who need to strengthen their understanding of operations with integers, order of operations, fractions with like denominators, solving equations and inequalities with whole numbers and decimals, solving simple proportions and percent proportions, changing fractions to decimals and percents, graphing inequalities on number lines, basic geometric principles, basic exponents and square roots, the coordinate plane and plotting points. This course will prepare the student to move on to *Integrated Math II B* the following year.

INTEGRATED MATHEMATICS I LAB

(INT MATH ENRICH)

Full year course, 1 credit per semester – *Prerequisites: Enrolled concurrently in Integrated Mathematics IB* (DOE Course Code: 2518)

Integrated Mathematics I Lab is a mathematics support course for Integrated Mathematics I. Integrated Mathematics I Lab is taken while students are concurrently enrolled in Integrated Mathematics I. This course provides students with additional time to build the foundations necessary for high school math courses, while concurrently having access to rigorous, grade- level appropriate courses. The six critical areas of Integrated Mathematics I Lab align with the critical areas of Integrated Mathematics I: Relationships between Quantities; Linear and Exponential Relationships; Reasoning with Equations; Descriptive Statistics; Congruence, Proof, and Constructions; and Connecting Algebra and Geometry through Coordinates. However, whereas Integrated Mathematics I contains exclusively grade-level content, Integrated Mathematics I Lab combines standards from high school courses with foundational standards from the middle grades.

INTEGRATED MATHEMATICS II B

Full year course, 1 credit per semester – *Prerequisites:* Integrated Mathematics IB (Open to 10th, 11th, & 12th grade students on a General Diploma track). 1st semester, teacher recommendation and/or case conference decision; 2nd semester, passing grade in 1st semester
(DOE Course Code 2556)

Integrated Mathematics II B reviews the mathematics learned in Integrated 1 B. This course is for those who need to continue to strengthen their understanding of operations with integers, order of operations, simple and mixed fractions, solving multi-step equations and inequalities with whole numbers, decimals and fractions, solving simple proportions and percent proportions, changing mixed fractions to improper fractions, decimals and percents, basic geometric principles, exponents and square roots, the coordinate plane and plotting points, identify slope and y-intercept in an equation, and graphing linear equations and inequalities on the coordinate plane. This course will prepare the student to move on to Algebra 1 B the following year.

RESOURCE ROOM

Recommendation of Case Conference Committee.

Services are available only to special education students as determined by the Case Conference Committee. This room is designed to provide educational assistance for special education students. Students may use the resource room on a drop-in basis when assistance is needed. It also provides a setting for educational counseling when indicated on the individual students' IEP.

APPLIED SKILLS

1- to 7-year course, 1 credit per semester – *Prerequisites: Recommended by the Case Conference Committee* (DOE Course Code: 0500)

This is a one to seven-year course designed for students pursuing a certificate of completion. The focus is on life skills needed to transition to the adult world. Students learn about a variety of topics including budgeting, functional math, social skills, employment skills and independent living skills. Students will have the opportunity to participate in volunteering at various sites in the community.

WORK BASED LEARNING (I.C.E.)

Full year course, 1 related class credit per semester, 1 to 2 work credits per semester – *Prerequisites: Recommended by the Case Conference Committee* (DOE Course Code: 6162)

The *Work Based Learning* (*I.C.E.) Related* curriculum builds general employability skills and studies many areas associated with employment including career exploration, job market information, time and money management, tax form preparation, etc. Job Coaches are available to help students with a successful work placement. Students may not be allowed early release from the building until they secure employment or are actively seeking work.

WORLD LANGUAGES

Chinese:
- Chinese I
- Chinese II
- **B** Chinese III
- **B** Chinese IV
- Chinese AP Language and Culture

French:
- French I
- French II
- **I** French III
- **I** French IV

Japanese:
- Japanese I
- Japanese II
- Japanese III
- Japanese IV

Russian:
- Russian I
- Russian II
- Russian III
- Russian IV

Spanish:
- Spanish I
- Spanish II
- Language for Heritage Speakers, Level II
- **I** Spanish III
- **I** Spanish IV
- Spanish V

B Chinese dual Credit available from Butler University
I French & Spanish dual Credit available from Ivy Tech

World Languages Department Course Descriptions

CHINESE I

Full year course, 1 credit per semester – *Prerequisites: Semester 1: none; semester 2: successful completion of 1st semester of Chinese I*
(DOE Course Code: 2000)

This course introduces Chinese language and culture in everyday situations at home, in school, and community settings to secondary students. Through this course students will be given opportunities to ask and answer basic questions directly tied to their needs and interests; give and respond to basic requests in both oral and written situations; read short texts and situational items such as business cards, home addresses and dates; and respond appropriately in writing to simple situational texts, such as a self-introduction letter, birthday cards and calendars. In addition, students will be challenged to compare and contrast their own culture with the Chinese culture by learning their major holidays and celebrations, non-verbal communication, gestures, and proper etiquette in a variety of social settings.

CHINESE II

Full year course, 1 credit per semester – *Prerequisites: Semester 1: successful completion of Chinese I; semester 2: successful completion of 1st semester of Chinese II* (DOE Course Code: 2002)

Chinese II begins with a review of *Chinese I* which reinforces the four basic language skills of reading, writing, listening, and speaking. Students expand vocabulary and grammar skills for communicating about everyday events such as school, sports, leisure activities, and both formal and informal social interactions. Students acquire skills to better express themselves both orally and in more complex writing assignments, expressing their opinion and supporting their statements. Students will expand their reading comprehension skills while reading and discussing simple authentic texts and materials. Students will study geography in addition to the culture of China for a better understanding of the Chinese language and people as well as a higher awareness of the world around them.

CHINESE III

Full year course, 1 credit per semester – *Prerequisites: Semester 1: successful completion of Chinese II; semester 2: successful completion of 1st semester of Chinese III* (DOE Course Code: 2004)

Chinese III is designed to bring the students an opportunity to further develop their four language proficiency skills in Chinese: listening, speaking, reading and writing in the novice high range across the three communicative modes (interpersonal, interpretive, and presentational) and the five Cs (communication, culture, connections, comparisons and communities) as defined in the Standards for Foreign Language Learning in the 21st Century. Language and culture topics will cover transportation, food and drinks, weather and travel. Students will continue to deepen their knowledge of the culture, life styles, and philosophy of Chinese-speaking people.

Dual Credit may be available through Butler University course numbers CN 203 pending student qualification for dual-credit.

CHINESE IV

Full year course, 1 credit per semester– *Prerequisites: Semester 1: successful completion of Chinese III; semester 2: successful completion of 1st semester of Chinese IV* (DOE Course Code: 2006)

Chinese IV is designed to bring the students an opportunity to further develop their four language proficiency skills in Chinese: listening, speaking, reading and writing in the intermediate range across the three communicative modes (interpersonal, interpretive, and presentational) and the five Cs (communication, culture, connections, comparisons and communities) as defined in the Standards for Foreign Language Learning in the 21st Century. Topics includes shopping, asking for help and summer plans. Cultures and language are compared and analyzed. With online resources as well as a translation app, students are exposed to more Chinese literature, which they will understand and comment about at a deeper level. Students will be able to do independent research on cultures and regional features.

Dual Credit may be available through Butler University course numbers CN 204 pending student qualification for dual-credit.

CHINESE AP LANGUAGE AND CULTURE

Full year course, 1 credit per semester– *Prerequisites: Semester 1: successful completion of Chinese IV; semester 2: successful completion of 1st semester of Chinese IV* (DOE Course Code: 2014)

AP Chinese Language and Culture course is comparable to the fourth semester (or the equivalent) college/university courses in Mandarin Chinese. This course is designed to bring the students an opportunity to further develop their four language proficiency skills in Chinese: listening, speaking, reading and writing in the intermediate range across the three communicative modes (interpersonal, interpretive, and presentational) and the five Cs (communication, culture, connections, comparisons and communities) as defined in the Standards for Foreign Language Learning in the 21st Century. This course will also provide an introduction to literary Chinese and ancient Chinese literature. Authentic materials will be used in the class. The content includes topics like the holiday celebrations and food, education and school life, beliefs and social norms, attitude and human relationships, media and the hobby, travel and transportation, modern communication and post office, sports, family and the community, gender and health, environment and pollution, etc. The AP course exposes students to Chinese traditional culture such as calligraphy, paper cutting, classical music, poetry, art, and literature, etc.

FRENCH I

Full year course, 1 credit per semester – *Prerequisites: Semester 1: none; semester 2: successful completion of 1st semester of French I* (DOE Course Code: 2020)

This course introduces the students to the French language and to the culture of the French-speaking world with an emphasis on France. The language is taught in its cultural context, integrating speaking, listening, reading, and writing skills. Students learn how to communicate information related to basic personal needs and interests, to express opinions, to describe daily routines, and to make requests in a culturally appropriate manner.

Knowledge of vocabulary and grammatical structures enable the students to read the information found in dialogues and interviews, giving the students the ability to respond to questions based on those materials. The students also learn to give and understand certain classroom directions and commands.

Students learn about topics such as food, family, sports, greetings, songs, gestures, and holidays. Students study Paris, the geography of France, the everyday life of its people, and the contributions of the French language and culture to American society and to the world.

FRENCH II

Full year course, 1 credit per semester – *Prerequisites: Semester 1: successful completion of French I; semester 2: successful completion of 1st semester of French II* (DOE Course Code: 2022)

This course reviews and continues to expand knowledge of the French language and general culture through the use of speaking, listening, reading, and writing skills. The students will be able to express themselves using regular and irregular verbs and vocabulary covering clothing, daily activities, school activities, sports, possessions, and family terms.

Study in *French II* will include past tense. The vocabulary and grammatical concepts presented enable the student to communicate about daily happenings of interest, express preferences, participate in conversation, ask questions about routine activities, and understand the main ideas of readings. The students will also continue to perfect their pronunciation of the French language.
The student will gain a deeper understanding of the culture by studying about the provinces of France with the help of authentic materials. They will also study historical events, political structures, value systems, visual arts, and music. All four language skills are practiced and developed

FRENCH III

Full year course, 1 credit per semester – *Prerequisites: Semester 1: successful completion of French II; semester 2: successful completion of 1st semester of French III* (DOE Course Code: 2024)

The present, past, and imperfect tenses as well as reflexive verbs will be reviewed. The course will also focus on object pronouns and adjectives. Self-descriptive clothing, shopping, hair salon, and telephone vocabulary will be covered. Within the framework of the vocabulary and grammatical concepts, the student is able to respond to factual and interpretive questions, interact in a variety of social situations, and express him/herself in these daily situations.

The student will read for comprehension from a variety of authentic materials such as short literary selections, advertisements, cartoons, and personal correspondence. The student will also complete authentic forms with required vocabulary and write well-organized compositions on a variety of topics.

The student will gain a deeper understanding of the culture by studying and giving presentations about the historical events, political structures, architecture, literature, and music. All four language skills are practiced and developed.

Dual Credit may be available through Ivy Tech course numbers FREN 101 and FREN 102 pending student qualification for dual-credit.

FRENCH IV

Full year course, 1 credit per semester – *Prerequisites: Semester 1: successful completion of French III; semester 2: successful completion of 1st semester of French IV* (DOE Course Code: 2026)

The student continues to refine his/her knowledge of the French language. After reading or viewing various authentic materials, such as short stories, novels, magazine articles, and films, the student responds to both factual and interpretive questions. The student expresses opinions and makes judgments verbally and in writing. Creative, well-organized compositions are written on given topics. The student learns to communicate appropriately in a variety of specific situations. Cultural study includes various literary, historical, and artistic periods and personalities and their connections to each other. Dual Credit may be available through Ivy Tech course numbers FREN 201 and FREN 202 pending student qualification for dual-credit.

JAPANESE I

Full year course, 1 credit per semester – *Prerequisites: Semester 1: none; semester 2: successful completion of 1st semester of Japanese I (DOE Course Code: 2060)*

This course introduces students to the Japanese language and culture. Emphasis is placed on Japanese standard-formal conversation and vocabulary which would be useful in everyday situations in the home and school, such as following or giving simple commands and asking about and describing basic routines, using four verb tenses. Included in the course will be reading and writing the hiragana syllabary, as well as at least 18 kanji, and then how to write and read katakana second semester. Cultural topics include basic geography, customs and manners of Japan, traditional games, and holidays.

JAPANESE II

Full year course, 1 credit per semester – *Prerequisites: Semester 1: successful completion of Japanese I; semester 2: successful completion of 1st semester of Japanese II* (DOE Course Code: 2062)

In the 2nd year of *Japanese*, students expand their grammar base with another three verb tenses and adjective forms. Much more vocabulary is introduced than in *Japanese I*. This knowledge is used to be able to converse in more detail about daily routines and abilities, ask and give permission, and express basic personal opinions. Students will also learn 42 more kanji. Reading is practiced through short textbook stories, decoding realia, and individual presentations. Writing is practiced through letter writing. Culture is explored in more detail through current videotapes, discussions of previous information presented in English now presented in Japanese, and individual student projects on history and culture.

JAPANESE III

Full year course, 1 credit per semester – *Prerequisites: Semester 1: successful completion of Japanese II; semester 2: successful completion of 1st semester of Japanese III* (DOE Course Code: 2064)

In the 3rd year of *Japanese*, the focus is on learning informal, everyday Japanese. Students review all verb tenses learned thus far, and then study the informal form of these. In addition, students become more able to express opinions, wants, and needs through the study of superlatives and comparatives, the "want to" form of verbs, and giving and understanding directions. At least thirty-five more kanji are studied. Cultural studies continue through film and video, as well as individual student presentations in both English and Japanese. Because of the complex nature of the written language, reading and writing are still a challenge, but journal writing in the target language is encouraged.

JAPANESE IV

Full year course, 1 credit per semester – *Prerequisites: Semester 1: successful completion of Japanese III; semester 2: successful completion of 1st semester of Japanese IV* (DOE Course Code: 2066)

This course begins to prepare students for the study of Japanese at the college level. Students review previously learned grammar points and topics at a deeper level, with more vocabulary. In addition, new grammar is studied so that students will be able to speak and write about quotations, personal opinions, giving and receiving at various politeness levels, asking for favors, use gerunds, relay reported information, express uncertainties, give advice, understand rules, and express purpose. Kanji learned during previous years continues to be reviewed, with an additional 40 new kanji formally studied. Reading is still at a basic level, but is practiced more than previous years, through textbook samples. Culture continues to be studied through individual research papers, films, and videos.

RUSSIAN I

Full year course, 1 credit per semester – *Prerequisites: Semester 1: none; semester 2: successful completion of 1st semester of Russian I* (DOE Course Code: 2100)

This course is an introduction to the Russian language and culture. Students will learn the Cyrillic alphabet and Russian sound system. Students will be able to read material in the Cyrillic alphabet, including basic greetings and words of English origin. Emphasis will be placed on communicative activities that the student will use in everyday situations with Russian people. Cultural topics will include geography, history, family life, holidays, community, and current events. At the end of the semester, students will write and present a final presentation on one aspect of Russian culture. During the second semester emphasis will be placed on staging skits and role-plays. Students will develop cultural awareness of Russian cooking and dining customs. Students will learn to express likes and dislikes, indicate possession, and to identify features of major Russian cities. Through a variety of listening activities, students will develop their comprehension skills.

RUSSIAN II

Full year course, 1 credit per semester – *Prerequisites: Semester 1: successful completion of Russian I; semester 2: successful completion of 1st semester of Russian II* (DOE Course Code: 2102)

This intermediate Russian language course will develop students' abilities to describe objects, to travel through Russian cities using various means of transportation, and to talk about the weather. Other communicative activities may focus on community, professions, time expressions, and free-time activities. At the end of the semester, students will be responsible for presenting some aspect of Russian culture pertaining to the holiday season. In the second semester, conversational topics will include weather, professions, and higher education in Russia. Students will read, use and analyze websites and video from the Former USSR. Students will train for and, if they wish, participate in the Olympiada of Spoken Russian, an international competition which tests students' abilities in the Russian language and knowledge of geography, history, and art.

RUSSIAN III

Full year course, 1 credit per semester – *Prerequisites: Semester 1: successful completion of Russian II; semester 2: successful completion of 1st semester of Russian III* (DOE Course Code: 2104)

Both the 3rd and 4th year programs focus on the specific skills needed to travel to the former Soviet Union and to relate to native Russian speakers. Topics will include getting acquainted, airport/travel vocabulary, and describing peoples' traits. Conversation topics cover such subjects as locations within a city, food, and visiting friends. Students will gain Russian cultural and community awareness through material pertaining to Russian history, holidays, parties, and guest expectations. Students will be able to write and verbally give a physical description of people and describe their homes and home cities. Using the Internet, students will read descriptions of real estate offerings in the former Soviet Union and then translate these descriptions into English. Students will train for and, if they wish, participate in the Olympiada of Spoken Russian, a competition which tests ability in the Russian language and culture.

RUSSIAN IV

Full year course, 1 credit per semester – *Prerequisites: Semester 1: successful completion of Russian III; semester 2: successful completion of 1st semester of Russian IV* (DOE Course Code: 2106)

Both the 3rd and 4th year programs focus on the specific skills needed to travel to the former Soviet Union and to relate to native Russian speakers. Topics will include getting acquainted, airport/travel vocabulary, and describing peoples' traits. Conversation topics cover such subjects as locations within a city, food, and visiting friends. Students will gain Russian cultural and community awareness through material pertaining to Russian history, holidays, parties, and guest expectations. Students will be able to write and verbally give a physical description of people and describe their homes and home cities. Using the Internet, students will read descriptions of real estate offerings in the former Soviet Union and then translate these descriptions into English. Students will train for and, if they wish, participate in the Olympiada of Spoken Russian, a competition which tests ability in the Russian language and culture.

SPANISH I

Full year course, 1 credit per semester – *Prerequisites: Semester 1: none; semester 2: successful completion of 1st semester of Spanish I* (DOE Course Code: 2120)

This course introduces Spanish language and culture in everyday situations in home, school, and community settings to secondary students. Throughout this course, students will be given opportunities to ask and answer basic questions directly related to their needs and interests; give and respond to basic requests in both oral and written situations; read short texts and situational items such as tickets and schedules; and respond appropriately in writing to various situational texts, such as letters and phone messages. In addition, students will be challenged to compare and contrast their culture with the various Hispanic cultures by learning about major holidays and celebrations, non-verbal communication, gestures, and proper etiquette in a variety of social settings.

SPANISH II

Full year course, 1 credit per semester – *Prerequisites: Semester 1: successful completion of Spanish I or equivalent (determined by testing); semester 2: successful completion of 1st semester of Spanish II* (DOE Course Code: 2122)

Spanish II begins with a review of *Spanish I* which reinforces the four basic language skills of reading, writing, listening, and speaking. Students expand vocabulary and grammar skills for communicating about everyday events such as shopping, travel, daily routines, and both formal and informal social interactions. Students acquire skills to better express themselves both orally and in more advanced writing assignments, expressing their opinions and supporting their statements. Students will expand their reading comprehension skills while reading and discussing authentic texts and materials. Students continue to study the geography and culture of the Hispanic world for better understanding and higher awareness of the world around them.

LANGUAGE FOR HERITAGE SPEAKERS, LEVEL II

Full year course, 1 credit per semester – *Prerequisites: Successfully testing into Level II* (DOE Course Code2192)

This course is designed to meet the needs of less advanced Heritage Speakers of Spanish. Students will learn how to correctly manipulate basic grammar forms, the basic rules of accentuation, and focus on the correct spellings of difficult letter combinations. In addition, students will expand their vocabularies beyond their current vocabulary and beyond the region(s) and country(ies) from which they and their families originate. Students will also study the culture, geography, economics, government, art, and literature from a variety of Spanish-speaking countries. Students will gain a deeper understanding of the value of heritage language study and will further develop their skills to communicate in their heritage language. Student strengths and weaknesses are analyzed so that their grammatical studies, written assignments, oral presentations, and cultural studies can be individualized.

SPANISH III

Full year course, 1 credit per semester – *Prerequisites: Semester 1: successful completion of Spanish II or equivalent (determined by testing); semester 2: successful completion of 1st semester of Spanish III* (DOE Course Code: 2124)

Spanish III begins with a brief review of some major concepts from both Spanish I and II. Students continue to expand vocabulary and grammar skills for communicating orally about everyday events as well as more difficult cultural concepts including tourism, health, daily routine, leisure time, cultural events and ceremonies, cultural values, historical events, and cultural heritage. Students continue to develop their writing skills in even more advanced writing assignments by analyzing presented information, expressing their opinions, and supporting their statements. Students will continue to expand their reading comprehension skills while reading, analyzing, and responding to longer and more in-depth authentic texts and materials. Students increase their knowledge of the geography and culture of the Hispanic world by comparing and contrasting the geography and cultural differences of the various Hispanic countries.

Dual Credit may be available through Ivy Tech course numbers SPAN 101 and SPAN 102 pending student qualification for dual-credit.

SPANISH IV

Full year course, 1 credit per semester – *Prerequisites: Semester 1: successful completion of Spanish III or equivalent (determined by testing); semester 2: successful completion of 1st semester of Spanish IV* (DOE Course Code: 2126)

Level IV Spanish ensures that students are able to read short literary works in Spanish and are exposed to Hispanic culture in conjunction with reading and writing assignments and related videos. Students will be able to use vocabulary, grammar, and geography as needed. They will research and present written and oral reports in Spanish on selected topics. They will read excerpts of major Spanish writings and short works of literature. They will recognize, through research, famous Hispanic people and certain periods of Hispanic history. Student strengths and weaknesses are analyzed so that their grammatical studies, written assignments, and oral presentation can be individualized.

Dual Credit may be available through Ivy Tech course numbers SPAN 201 and SPAN 202 pending student qualification for dual-credit.

SPANISH V

Full year course, 1 credit per semester – *Prerequisites: Semester 1: successful completion of Spanish IV; semester 2: successful completion of 1st semester of Spanish V* (DOE Course Code: 2128)

Spanish V will continue the work of *Spanish IV* and is designed to help the advanced student learn at an accelerated pace about literature, culture, and current events from all 21 Spanish-speaking countries. Students will participate in conversation on current or past events that are significant in the culture. They will read and demonstrate understanding of articles in newspapers, magazines, and books. They will create various kinds of written work (stories, poems, skits, etc.). They will demonstrate near native behaviors, using appropriate verbal and nonverbal cues in a variety of cultural contexts. Student strengths and weaknesses are analyzed so that their grammatical studies, written assignments, oral presentations, and cultural studies can be individualized.