

HAGERSTOWN

JR. SR. HIGH SCHOOL

2019-2020



High School Course Description Guide

Principal: David Tyner
Dean of Students: Emily Schaeffer
Director of Athletics: Scott Snodgrass
Counselor: Amy Olinger
Counselor: Danielle Rainey

FOREWORD

This handbook, which has been prepared to familiarize you with curricular opportunities at Hagerstown Junior-Senior High School, will explain available courses, course sequences, graduation requirements, athletic eligibility, and other matters pertaining to curriculum.

Each year Hagerstown Junior-Senior High School students must make extremely important choices about the courses they will take the following year. You, the student, are the most important factor in this selection. Although teachers, counselors, and parents may advise you, it is you personally who is ultimately responsible for correct and wise choices. For that reason, you must study this booklet carefully. However, before you begin your selection, it is important to give careful consideration to your future goals and to your academic abilities. Be sure that your educational goals are consistent with your abilities and your interests. The best general advice is to select as your major fields of study those subjects that stimulate and excite you and in which you do well, keeping in mind at the same time that eventually you must be educated well enough to earn a living in a highly technical world.

From the school's point of view, it is important that you do your educational soul-searching before, not after, you make out your schedule. Your schedule, along with over 500 others, will determine the staff needs and course offerings for the next year. No schedule changes will be permitted after **pre-enrollment date** except in unusual circumstances.

TABLE OF CONTENTS

| | Page |
|--|-------|
| General Information | 3 |
| Diploma Types | 4 |
| Graduation Checklist | 5-6 |
| Information from the State on High School Diplomas | 7 |
| Advanced Placement/Dual Credit/College Credit | 8 |
| Other Educational Opportunities | 9 |
| Educational Planning | |
| Graduation Plan Worksheet | 10 |
| | |
| Course Descriptions | |
| Agriculture | 11-12 |
| Art | 13-14 |
| Business | 15-18 |
| English Language Arts | 19-20 |
| Family and Consumer Science | 21-23 |
| Mathematics | 24-26 |
| Music | 27-28 |
| Physical Education-Health | 29-30 |
| Science | 31-32 |
| Social Studies | 33-34 |
| World Languages/Spanish | 35 |
| New Castle Area Career Programs (Vocational Education) | 36-48 |

General Information

ACADEMIC PROBATION

Presently, students cannot fail more than one (1) class in which they are enrolled during a nine-week or semester grading period or they will be placed on Academic Probation. Academic Probation prohibits a student from attending extra-curricular/school-sponsored events such as school dances, club meetings/activities, etc. Students on academic probation may attend events as spectators. This probation is in effect until the next nine-week grades are given.

ATHLETIC PROBATION

Students must be passing with six (6) credits at the end of each nine weeks and semester to be eligible for interscholastic athletics. Athletic Probation prohibits a student from participating in all athletic events.

COURSE SELECTION CHANGES

Counselors cannot change periods or classes to honor requests for specific teachers. If a schedule is incorrect, it is the student's responsibility to resolve that problem BEFORE THE NEW SEMESTER BEGINS.

*Students are required to complete a Course Change Request Form which can be obtained at Guidance Office.

COURSE COSTS

Course costs are determined by the cost of textbook and consumables. Fees for courses undergoing book adoptions will be determined the summer after this guide is published and therefore are listed with double asterisks (CC: **)

CLASS STANDING

Students must earn a specific number of credits to advance to the next grade level to reach the required 47 credits needed for graduation. Compare the total credits you have earned to the figures below to determine your class standing.

Grade 9: 0 to 9 credits

Grade 10: 10 to 20 credits

Grade 11: 21 to 32 credits

Grade 12: 33+ credits

CLASS RANK

Rank is determined by figuring cumulative averages for each student and then placing them in order with highest first. A student's GPA is based on high school credit courses. In case of a tie, the students will be listed numerically the same. The average is figured at the end of each semester.

HONOR ROLL

Following the close of each grading period, an honor roll for achievement during the preceding nine weeks will be posted in the General Office area and given to area newspapers.

OPEN DOOR POLICY

Parents are encouraged to visit the school. Arrangements can be made for school tours, classroom visitations, and teacher conferences. These activities need to be scheduled at mutually convenient times so staff can be available to parents. A background check will need to be completed and submitted at least five (5) days before a planned visit.

STATE OF INDIANA GRADUATION REQUIREMENT

In order to meet Indiana graduation requirements, students must successfully complete the ISTEP+ Grade 10. Beginning in 2015-16, the Grade 10 ISTEP+ test replaces End of Course Assessments in Algebra I and English 10 as the assessment used for accountability in high school English/Language Arts and Mathematics.. Students will have multiple opportunities to pass should they unsuccessfully test. If a student is unable to pass before the end of their senior year and participated in remediation opportunities, he/she may qualify for a waiver. There is also the option of graduating with a Graduation Pathway. For more information: <https://www.doe.in.gov/graduation-pathways>

In addition to the ECA's, the state has adopted House Enrolled Act (HEA) 1005 which states that all students must be deemed college and career ready by graduation. This will be determined by the students ISTEP+ Grade 10 exam or the PSAT test that was taken during grade 10.

Diploma Types

Students must meet the State of Indiana graduation requirements as stated in Section I: General information under State of Indiana Graduation Requirements in order to be granted any diploma. The types of diplomas available are as follows:

Diploma Types:

- Core 40 with Academic Honors
- Core 40 with Technical Honors
- Core 40 (Standard/Minimum Diploma)
- General Diploma (Beginning with class of 2011, you must complete a formal opt-out process to attain this Diploma)
- Certificate of completion (Special Services Based)

To learn more about the new graduation requirements, go to:

<http://www.doe.in.gov/ccr/indianas-diploma-requirements>

You will need Adobe Reader or Microsoft Word to access these files.

Hagerstown High School Graduation Checklist

Name: _____ Year of Graduation: _____ Diploma Goals: _____

Career Pathway: _____

English – 4 years (8 Credits)

- * English 9 () _____
- * English 10 () _____
- * English 11 () _____
- * English 12 () _____

Math – 3 years (6 Credits) *(8 for AH & TH)*

Must take math or QR course each year

- * Algebra I () _____
- * Algebra II _____
- * Geometry _____
- Pre-Calculus/Trig () _____
- Calculus _____

Science – 3 years (6 Credits)

- * Biology _____
- * ICP or _____
- * Chemistry or _____
- * Physics _____
- Earth Space _____
- Biology II _____
- Environmental Sci. _____

Social Studies – 3 years (6 Credits)

- * Geography or _____
- * World History _____
- * US History _____
- * Government _____
- * Economics _____

ECA SCORES:

Math Recorded passing score: _____

English _____

Business – 2 Credits

- * Personal Financial Resp. _____
- * Digital Citizenship _____
- (Formerly Comp. Apps)

PE/Health – 3 Credits

- * PE _____
- * Health _____

Fine Arts – 2 Recommended Credits

* (2 required Credits for AH & TH)*

World Lang. – 2 recommended years (4 Credits)

* (3 years - 6 required Credits for AH)*

- Spanish I _____
- Spanish II _____
- Spanish III _____
- Spanish IV _____

Electives (6 recommended from pathway)

Pathway:

| | | |
|-------|-------|-------|
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |

Academic Honors:

- * Are all Core 40 requirements met? _____
- * 8 credits in math? _____
- * 6-8 credits in World Language? _____
- * 2 Fine arts credits? _____
- * "C" or better in all required classes? _____
- * GPA of 7.9 or higher? _____
- * One of following met? _____
 1. 2 AP courses and exams? _____
 2. 6 verifiable DC courses from priority course list? _____
 3. 3 DC and 2 AP exams? _____
 4. SAT score of 1750 or higher with minimum of 530 on each section? _____
 5. ACT score of 26 or higher with written section? _____

AP Courses:

| |
|-------|
| _____ |
| _____ |
| _____ |
| _____ |
| _____ |
| _____ |

of credits? Exam?

| | | |
|-------|-------|-------|
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |

Dual Credit Courses:

| |
|-------|
| _____ |
| _____ |
| _____ |
| _____ |
| _____ |
| _____ |

of credits?

| | |
|-------|-------|
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

Technical Honors:

- * Are all Core 40 requirements met? _____
- * 6 credits in College + Career Pathway _____
 1. Certification or Credential? _____
 2. Pathway dual credits from the priority courses resulting in 6 college credits _____
- * "C" or better in all required classes? _____
- * GPA of 7.9 or higher? _____
- * One of following met? _____
 1. 2 AP courses and exams? _____
 2. 6 verifiable DC courses from priority course list? _____
 3. 3 DC and 2 AP exams? _____
 4. SAT score of 1750 or higher with minimum of 530 on each section? _____
 5. ACT score of 26 or higher with written section? _____
 6. Earn following scores or higher on WorkKeys:
 - Reading for Info – Level 6 _____
 - Applied Math – Level 6 _____
 - Locating Info – Level 5 _____

7. Earn the following min. score on Accuplacer:

| | |
|--------------|-------|
| Writing – 80 | _____ |
| Reading – 90 | _____ |
| Math – 75 | _____ |

8. Earn the following min. score on Compass:

| | |
|--------------|-------|
| Algebra – 66 | _____ |
| Writing – 70 | _____ |
| Reading – 80 | _____ |

In November 2011, the State Board of Education passed new graduation requirements that the Class of 2016 and beyond.

- For the Core 40, Academic Honors (AHD), and Technical Honors (THD) diplomas, students must take a mathematics course or a quantitative reasoning course each year they are enrolled in high school.
- For the General Diploma, students must earn two credits in a mathematics course or a quantitative reasoning course during their junior or senior year.
- A quantitative reasoning course is a high school course that "advances a student's ability to apply mathematics in real world situations and contexts" and that "deepens a student's understanding of high school mathematics standards."
- The Indiana Department of Education will provide an annual review to determine the high school courses that meet these criteria.
- The tables at www.doe.in.gov/achievement/pdf/quantitative-reasoning-courses provides an up-to-date list of courses that have been determined to meet the criteria for quantitative reasoning courses.

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 <i>Or complete Integrated Math I, II, and III for 6 credits.</i> <i>Students must take a math course or quantitative reasoning course each year in high school.</i> |
| Science | 6 credits 2 credits: Biology I 2 credits: Chemistry I or Physics I or Integrated Chemistry-Physics 2 credits: any Core 40 science course |
| Social Studies | 6 credits 2 credits: U.S. History 1 credit: U.S. Government 1 credit: Economics 2 credits: World History/Civilization or 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 <i>(College and Career Pathway courses recommended)</i> |
| 40 Total State Credits Required | |

Schools may have additional local graduation requirements that apply to all students

* 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.

**Scores updated September, 2017

CORE40 with Academic Honors (minimum 47 credits)

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

- Complete all requirements for Core 40.
- Earn 2 additional Core 40 math credits.
- Earn 6-8 Core 40 world language credits (6 credits in one language or 4 credits each in two languages).
- Earn 2 Core 40 fine arts credits.
- Earn a grade of a "C" or better in courses that will count toward the diploma.
- Have a grade point average of a "B" or better.
- Complete one of the following:
 - A. Earn 4 credits in 2 or more AP courses and take corresponding AP exams
 - B. Earn 6 verifiable transcribed college credits in dual credit courses from the approved dual credit list.
 - C. Earn two of the following:
 1. A minimum of 3 verifiable transcribed college credits from the approved dual credit list,
 2. 2 credits in AP courses and corresponding AP exams,
 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 500 on math and 590 on the evidence based reading and writing section.**
 - E. Earn an ACT composite score of 28 or higher and complete written section
 - F. Earn 4 credits in IB courses and take corresponding IB exams.

CORE40 with Technical Honors (minimum 47 credits)

For the Core 40 with Technical Honors diploma, 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 transcribed college credits
- Earn a grade of "C" or better in courses that will count toward the diploma.
- Have a grade point average of a "B" or better.
- Complete one of the following,
 - A. Any one of the options (A - F) of the Core 40 with Academic Honors
 - B. Earn the following scores or higher on WorkKeys: Reading for Information – Level 6, Applied Mathematics – Level 6, and Locating Information - Level 5.
 - C. Earn the following minimum score(s) on Accuplacer: Writing 80, Reading 90, Math 75.
 - D. Earn the following minimum score(s) on Compass: Algebra 68 Writing 70, Reading 80.

ADVANCED PLACEMENT (AP) OPPORTUNITIES
AP CLASSES

The Advanced Placement Program (AP) gives students the opportunity to take college-level courses and exams while they are still in high school. Through AP, they may earn credit, advanced placement, or both for college. Over 90% of the Nation's colleges and universities have an AP policy granting incoming students credit, placement, or both for qualifying AP Exam grades. AP Examinations are administered each year in May. If a student receives a high enough score on the exam, university credit may be granted. **AP Test are \$94 dollars (subject to change by the College Board). Parents may have to pay for these exams. All Math, Science, and English Language Tests must be paid for in advance prior to the test being administered.** Those students on free and reduced lunch qualify for a discount per exam. For additional information about the Advanced Placement Program check the web: <http://apcentral.collegeboard.com> . Advanced Placement is an important part of the state's educational policy. Advanced Placement classes available are:

**AP Language and Composition · AP Literature and Composition · AP Calculus · AP Environmental Science ·
AP Probability and Statistics**

DUAL CREDIT HIGH SCHOOL/COLLEGE OPPORTUNITIES

Students may receive dual credits through the departments and Ivy Tech State College. Students must meet all Ivy Tech qualifications to be eligible for the dual credits. Please see the School Counselors for further information regarding these qualifications. Hagerstown High School students will be given dual credit for credit pending qualifications for the following courses:

IVTC COURSES

AGRI 103 Animal Science
AGRI 104 Food Science
AGRI 106 Agriculture Mechanization
AGRI 107 Advanced Life Science: Animals
AGRI 116 Survey of Horticulture
CINS 101 Intro Microcomp
CSCI 101 Computer Science I
BIOL 101 Introductory Biology
BUSN 101 Intro to Business
BUSN 105 Business Management
BUSN 201 Business Law
COMM 101 Interpersonal Communications
ENGL 111 English Composition
ENGL 206 Intro to Literature
ENTREP 101 The Entrepreneur & The Enterprise
MATH 135 Finite Math
MATH 137 Trig with Analytic-Geometry
MATH 136/137
MATH 211 Calculus
CHEM 101 Introductory Chemistry I
HIST 101 Survey of American History I
HIST 102 Survey of American History II
SPAN 101 Spanish Level I
SPAN 102 Spanish Level 1
SPAN 201 Spanish Level 2
SPAN 201 Spanish Level 2
TAM 111 Beginning Clothing Construction
TAM 211 Intermediate Clothing

EQUIVALENT

HIGH SCHOOL COURSES

Animal Science
Food Science
Agriculture Power, Structure & Technology
Advanced Life Science Animals
Horticulture Science
Digital Applications and Responsibility
Computer Programming II
Biology II
Principles of Business Management
Advanced Business Mgmt-BTL
Business Law & Ethics
Interpersonal Communications
English 11 and/or 12
English 12
Entrepreneurship
Finite Math
Pre-Calculus
Honors Pre-Calculus
Calculus
Chemistry II
US History
US History
Spanish III (Semester 1)
Spanish III (Semester 2)
Spanish IV (Semester 1)
Spanish IV (Semester 2)
HHS Introduction to Fashion and Textiles 1
HHS Introduction to Fashion and Textiles 2

*Students may utilize some of these courses for only one requirement of the Academic Honors Diploma. That is, either as one AP course or as Dual Credits, but not both, for the identical course

EDUCATIONAL OPPORTUNITIES

Educational opportunities can be pursued through the following:

A. WORK BASED LEARNING

Students can enroll in our work based learning (WBL) program, which offers an unpaid work experience for a specified time period in the public or private sector. WBL offers workplace learning in an area of student career interest or preparation. Students are provided an opportunity to experience all aspects of work in a particular industry or career cluster area. WBL experiences are a means of linking academic learning with work related experiences and can be tailored to the unique needs and interests of the learner and employer. A learning agreement outlines the expectations of all parties: the student, parent, supervisor and school. Applications are available from Mr. John Kindt. A WBL application must be completed and returned by March 1st.

B. INSITE DISTANCE LEARNING (courses via satellite)

Classes are available via satellite through The Indiana Academy at Ball State. These classes are additional course options for students demonstrating advanced academic abilities. Inquiries about courses offered through Ball State University's Program Distance Learning should be directed to the guidance department.

C. LETTERLINKS (correspondence courses through Northwestern University)

The LetterLinks program provides an opportunity for academically advanced junior high and high school students who qualify through the Midwest Talent Search to take academically accelerated courses via correspondence. A variety of class offerings are available in mathematics, science, language arts, and the arts offering both Honors and Advanced Placement level courses. Students must meet the requirements for the course set by Northwestern University. For information about the LetterLinks program contact Elizabeth Bryant, Coordinator of Programming for High Ability/Gifted Students, at Hagerstown Elementary (765) 489-4555 or ebryant@nettlecreek.k12.in.us.

D. INDEPENDENT STUDY

Student demonstrating high level of self-reliance, self-motivation, and advanced academic prowess in a content area, may investigate independent study as an alternative learning experience. Direct inquiries to guidance department.

****SCHOLARSHIPS****

A number of HHS students seek scholarships every year. Students and parents are given information annually concerning the College Entrance Examination Board and the National Merit Scholarship competition (PSAT/NMSQT). All sophomores and juniors will be taking the PSAT. Colleges, businesses, and industrial firms, as well as civic, fraternal, and educational groups offer many other scholarship opportunities. Some awards require an examination; others require a written application or an interview. Students are encouraged to consult their counselor to review scholarships for which they may be eligible. College information on admission requirements as well as other information may be obtained by visiting your guidance counselor. Scholarship information is available to students in the front office. Parents are also invited to contact the guidance counselor of their son or daughter if they have questions about scheduling, college requirements, college information, scholarships, financial aid, etc.

MID-TERM GRADUATION

We feel that the curriculum at Hagerstown offers classes that are beneficial to the education of our students, and it is in the best interest of those students to remain in school a full eight semesters. But, in recognition of special cases, we do provide an opportunity for the student to graduate after seven semesters.

Justification for mid-term graduation must be provided through a conference involving: the student, parent/guardian, and a school administrator. An appointment for a conference must be made prior to May 1 of the student's junior year. The student must obtain his/her second credit of senior social studies through night school, summer school, or correspondence school. A course will not be offered during the first semester just for the purpose of fulfilling the social studies requirement. All graduation requirements/course work **MUST** be completed **PRIOR** to the conclusion of first semester

Graduation Plan

Name _____

Diploma Type _____

Career Cluster _____

Freshman

Sem. 1

Sem. 2

| | |
|-------|-------|
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

Sophomore

Sem. 1

Sem. 2

| | |
|-------|-------|
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

Junior

Sem. 1

Sem. 2

| | |
|-------|-------|
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

Senior

Sem. 1

Sem. 2

| | |
|-------|-------|
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

AGRICULTURE

FUNDAMENTALS OF AGRICULTURE, FOOD, SCIENCE AND NATURAL RESOURCES (8, 9,10,11,12) **5056**

2 semesters

This course offered every year. This course is highly recommended as a prerequisite for all other Agricultural classes. The nature of this course is to provide students with an introduction to the Fundamentals of Agricultural Science and Business. Subjects which will be discussed include: animal science, plant and soil science, food science, horticultural science, farm and agribusiness management, landscape management, natural resources management, agricultural mechanization, and supervised agricultural experiences. CC: TBD

FOOD SCIENCE (9, 10, 11, 12) **5102**

2 semesters

This course provides students with an overview of food science and its importance. Introduction to principles of food processing, food chemistry, nutrition, food packaging, food commodities, food regulations, and careers in the food science industry help students understand the role which food science plays in the securing of a safe, nutritious and adequate food supply. A project-based approach is utilized along with laboratory, team building and problem solving activities to enhance student learning. CC: TBD

PREREQUISITE: Fundamentals of Ag.

IVY TECH DUAL CREDIT

HORTICULTURAL SCIENCE (9,10,11,12) **5132**

2 semesters

This course is offered every year. Horticultural Science is designed to give students a background in the field of horticulture. It will address the biology and technology involved in the production, processing, and marketing of horticultural plants and products. Topics to be covered will include: reproduction and propagation of plants, plant growth, growth media, management practices for field and greenhouse production, marketing concepts, production of herbaceous, woody and nursery stock, fruit, nut, and vegetable production, pest management, and landscaping. CC: TBD

PREREQUISITE: Fundamentals of Ag.

IVY TECH DUAL CREDIT

AGRICULTURAL MECHANIZATION/SMALL ENGINES (10,11,12) **5090**

2 semesters

This course is offered every year. Designed as a study of small engines both two and four cycle. It includes the theories of operation, plus laboratory experience in complete maintenance, adjustment, and overhaul procedure. CC: TBD

AGRICULTURAL MECHANIZATION/WELDING (10,11,12) **5091**

2 semesters

This course is offered every year. Developed to provide the student with a practical working knowledge of both arc and oxyacetylene welding. Positions and types of welds as well as welding safety are included in discussion. CC: TBD

ANIMAL SCIENCE (10,11,12) **5008**

2 semesters

This course will provide students with an overall view of the field of animal science. All areas that will be studied can be applied to large and small animals. Topics to be addressed will include: anatomy and physiology, genetics, reproduction, nutrition, aquaculture, careers in animal science, common disease and parasites, social and political issues related to the industry, and management practices for the care and maintenance of animals. This class will be responsible for running the "Where's the Beef" program. CC: TBD

PREREQUISITE: Fundamentals of Ag.

IVY TECH DUAL CREDIT

AGRICULTURE (continued)

ADVANCED LIFE SCIENCE: ANIMALS (11, 12) **5070**

IVY TECH DUAL CREDIT

2 semesters

Advanced Life Science: Animals provides students with opportunities to participate in a variety of activities including laboratory work. Students investigate concepts that enable them to understand animal life and animal science as it pertains to agriculture. Through instruction, including laboratory, fieldwork, leadership development, supervised agricultural experience and the exploration of career opportunities, they will recognize concepts associated with animal taxonomy, life at the cellular level, organ systems, genetics, evolution, and ecology, historical and current issues in animal agriculture in the area of advanced life science in animals. This class will count for a Core 40 Science elective.

LANDSCAPE MANAGEMENT I (10, 11, 12) **5136**

IVY TECH DUAL CREDIT

2 semesters

This course provides the student with an overview of the field of landscape management. Students are introduced to the procedures used in the planning and design of a landscape, the principles and procedures involved with landscape construction, the determination of maintenance schedules, communications and management skills necessary in landscaping operations, and the care and use of equipment utilized by landscapers. CC: TBD

PREREQUISITE: FUNDAMENTALS OF AG.

PLANT AND SOIL SCIENCE (10,11,12) **5170**

IVY TECH DUAL CREDIT

2 semesters

Students will participate in a variety of activities including some laboratory work. Topics to be discussed will include: the taxonomy of plants, the various plant components and their functions, Plant growth, plant reproduction and propagation, photosynthesis and respiration, disease and pests of plants, biotechnology, the basic components and types of soil, calculation of fertilizer application rates and procedures for application, soil tillage and conservation, irrigation and drainage, land measurement, cropping systems, harvesting and career opportunities in the field of plant and soil science.

PREREQUISITE: Fundamentals of Ag

CC: TBD

AG POWER, STRUCTURE, AND TECHNOLOGY (auto, truck, tractor) (11,12) **5088** **IVY TECH DUAL CREDIT**

1 semester/2 blocks

This course is offered every year and meets two periods a day. This class is designed to teach the basics of auto mechanics and farm power, such as maintenance, tune-up, valve work, fuel injection, computer controls, carburetor work, electrical systems, brake systems, chassis, and overhaul work. PREREQUISITE SMALL ENGINES CC:TBD

AGRICULTURAL MECHANIZATION/BODY FENDER REPAIR (11,12) **5089**

1-semester/2 blocks

This course is offered every year. This class is designed to teach the basics of auto body repair. The general areas of study that will be covered are the following: auto body construction, dent removal and metal straightening, replacement of auto body components, the use of specialized body tools, preparation for painting, and the fundamentals of spray painting.

PREREQUISITE: AGRICULTURE WELDING

CC:TBD

AGRICULTURE BUSINESS MANAGEMENT (11, 12) **5002**

2 semesters

Agribusiness Management provides foundation concepts in agricultural business. It is a two semester course that introduces students to the principles of business organization and management from a local and global perspective, with the utilization of technology. Concepts covered in the course include; accounting and record keeping, business planning and management, food and fiber, forms of business, finance, management, sales and marketing, careers, leadership development. Students will demonstrate principles and techniques for planning, development, application and management of agribusiness systems through a supervised agriculture experience (work based learning) programs.

PREREQUISITE: FUNDAMENTALS OF AG.

ART (FINE ARTS)

NOTE: In most of the art courses students will be required to purchase certain materials beyond normal supply.

INTRODUCTION TO TWO-DIMENSIONAL ART (9,10,11,12) **4000**

1 semester

This course is designed for students interested in drawing, collage art and painting. The elements and principles of art will be applied to projects produced by the student. Students create works of art, reflect upon the outcomes of those experiences, explore historical connections, work individually and in groups, and explore career options in visual arts. **It is recommended that students take introduction to two-dimensional art before taking Drawing and Painting.**

CC: TBD

INTRODUCTION TO THREE-DIMENSIONAL ART (9,10,11,12) **4002**

1 semester

This class is designed for students interested in 3 dimensional designs using a variety of techniques and materials to do sculptural projects. Students will learn hand-building techniques to create functional and decorative forms while studying clay terminology and glazing methods. Students create works of art, reflect upon the outcomes of those experiences, explore historical connections, work individually and in groups, and explore career options in visual arts. **It is recommended that students take introduction to two-and three-dimensional art before taking other courses.**

CC: TBD

DRAWING (10, 11, 12) **4060**

1 semester

Drawing students will develop their observation and accuracy skills as they progress through a variety of classroom assignments such as personal still life's, perspective drawings, portraiture, figure drawing, and landscapes. A wide range of drawing media will be used as student's complete assignments. Students will continue to develop compositional understanding by applying the elements and principles of design to their sketches/drawings. A variety of artists will be studied as students discover how they are relevant in art history and to the individual student's work.

PREREQUISITE: INTRODUCTION TO TWO-DIMENSIONAL ART

CC: TBD

PHOTOGRAPHY I (10, 11, 12) **4062**

1 semester

This class is designed for students interested in photography and computer generated art. Students are introduced to the basic techniques and process of photography. Students explore the use of photography as an art medium and as a means of visual communication. Emphasis will be placed on creating art with Photoshop and other computer graphics programs. Students will be introduced to webpage design. ****Students must have a digital camera, memory card, and a removable USB storage.**

CC:TBD

PAINTING (10, 11, 12) **4064**

1 semester

Students create abstract and realistic paintings, apply media, techniques, and processes with a variety of materials such as mixed media, water colors, acrylics and a variety of techniques. Students will develop skills explored previously in the Introduction to Two-Dimensional art class. Students will focus on drawing and painting using a variety of materials.

PREREQUISITE: INTRODUCTION TO TWO-DIMENSIONAL ART

CC: TBD

SCULPTURE (10, 11, 12) **4044**

1 semester

Students create realistic and abstract sculptures utilizing subtractive and additive processes of carving, modeling, construction, and assembling. Students use organizational principles and functions to solve specific visual problems and develop skills in applying media, techniques, and processes with sufficiency to communicate intended meaning. Using materials such as plaster, clay, metal, paper, wax, and plastic; students will create portfolio quality work.

PREREQUISITE: INTRODUCTION TO three-dimensional ART

CC:TBD

ART (FINE ARTS CONT.)

FINE ARTS CONNECTIONS (12) 4026

1 semester

This course is an opportunity for students seriously interested in art to work independently and explore their artistic ideas and vision. It is a chance for the visually gifted to excel and receive recognition. This class is intended for students with above-average ability that has the maturity to accept the responsibility of their own course of study.

PREREQUISITE: 6 CREDITS IN ART: STUDENTS MUST FILL OUT APPLICATION AND SUBMIT TO THE DEPARTMENT HEAD, TO BE CONSIDERED FOR ADMISSION TO THIS CLASS.

CC:TBD

VISUAL COMMUNICATIONS (11, 12) 4086

Students will create print media utilizing digital tools and computer technology. Emphasis will be placed on creating art with Photoshop and other computer graphics programs. They will explore the use of photography as an art medium and as a means of visual communication. **Students must have a digital camera, memory card, and a removable USB storage.

PREREQUISITE: Photography

CC: TBD

BUSINESS

Note: Some classes may be more due to college text needing to be purchased.

INTRODUCTION TO BUSINESS (9, 10 ONLY) **4518**

1 semester

Introduction to Business introduces entrepreneurship, and develop skills and tools critical for starting and succeeding in a new venture. The entrepreneurial process of opportunity recognition, innovation, value proposition, competitive advantage, venture concept, feasibility analysis, and “go to” market strategies will be explored through mini case studies of successful and unsuccessful entrepreneurial start-ups. Additionally, topics of government and legal restrictions, intellectual property, franchising location, basic business accounting, raising startup funding, sales and revenue forecasting and business plan development will be presented through extensive use of word processing, spreadsheet and presentation software.

Counted as a Directed Elective or Elective for all diplomas.

CC: TBD

PERSONAL FINANCIAL RESPONSIBILITY (10, 11,12) **4540**

1 semester

Personal Financial Responsibility addresses the identification and management of personal financial resources to meet the financial needs and wants of individuals and families, considering a broad range of economic, social, cultural, technological, environmental, and maintenance factors. This course helps students build skills in financial responsibility and decision making; analyze personal standards, needs, wants, and goals; identify sources of income, saving and investing; understand banking, budgeting, record-keeping and managing risk, insurance and credit card debt. A project based approach and applications through authentic settings such as work based observations and service learning experiences are appropriate. Direct, concrete applications of mathematics proficiencies in projects are encouraged.

- This course is required for graduation at Hagerstown Junior-Senior High School
- Counts as a Directed Elective or Elective for all diplomas
- Qualifies as a quantitative reasoning course

CC: TBD

DIGITAL APPLICATIONS & RESPONSIBILITY (formerly ICT) (9, 10, 11, 12) **4528 IVY TECH DUAL CREDIT**

1 or 2 semesters

Digital Applications and Responsibility prepares students to use technology in an effective and appropriate manner in school, in a job, or everyday life. Students develop skills related to word processing, spreadsheets, presentations, and communications software. Students learn what it means to be a good digital citizen and how to use technology, including social media, responsibly. Students expand their knowledge of how to use digital devices and software to build decision-making and problem-solving skills. Students should be provided with the opportunity to seek industry-recognized digital literacy certifications.

1 semester meets Nettle Creek School Corporation graduation requirements

CC: TBD

2 semesters may be eligible for dual credit with Ivy Tech Accuplacer or PSAT scores within acceptable ranges CC:TBD

INTRODUCTION TO ACCOUNTING (10, 11, 12) **4524 (2020-21)**

2 semesters

Accounting introduces the language of business and Generally Accepted Accounting Principles (GAAP) and procedures for proprietorships and partnerships using double-entry accounting. Emphasis is placed on comprehending 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

CC: TBD

BUSINESS (continued)

ADVANCED ACCOUNTING (11, 12) **4522**

2 semesters

Advanced Accounting expands on the Generally Accepted Accounting Principles (GAAP) and procedures for proprietorships and partnerships using double-entry accounting covered in Introduction to Accounting. Emphasis 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 more complex financial reports as a basis for decision-making. Successful completion of Introduction to Accounting is a prerequisite to Advanced Accounting. CC: TBD

PREREQUISITE: Introduction to Accounting

BUSINESS LAW AND ETHICS (11, 12) **4560 (2019-2020)** **Ivy Tech Dual Credit**

2 semesters

Business Law and Ethics provides an overview of the legal system in the business setting. Topics covered include: basics of the judicial system, contract, personal, employment and property law. Application of legal principles and ethical decision-making techniques are presented through problem-solving methods and situation analyses.

PREREQUISITE: Ivy Tech Accuplacer or PSAT scores within acceptable ranges.

CC:TBD

PRINCIPLES OF BUSINESS MANAGEMENT (11, 12) **4562** **Ivy Tech Dual Credit**

2 semesters

Principles of Business Management focuses on the roles and responsibilities of managers as well as opportunities and challenges of ethically managing a business in the free enterprise system. Students will attain an understanding of management, team building, leadership, problem solving steps and processes that contribute to the achievement of organizational goals. The management of human and financial resources is emphasized.

PREREQUISITE: Ivy Tech Accuplacer or PSAT scores within acceptable ranges.

CC: TBD

ENTREPRENEURSHIP AND NEW VENTURES (11, 12) **(2020-21) 5966**

Ivy Tech Dual Credit

1 semester

Entrepreneurship and New Ventures introduces entrepreneurship, and develop skills and tools critical for starting and succeeding in a new venture. The entrepreneurial process of opportunity recognition, innovation, value proposition, competitive advantage, venture concept, feasibility analysis, and "go to" market strategies will be explored through mini case studies of successful and unsuccessful entrepreneurial start-ups. Additionally, topics of government and legal restrictions, intellectual property, franchising location, basic business accounting, raising startup funding, sales and revenue forecasting and business plan development will be presented through extensive use of word processing, spreadsheet and presentation software.

PREREQUISITE: Ivy Tech Accuplacer or PSAT scores within acceptable ranges.

CC: TBD

PRINCIPLES OF MARKETING (10, 11, 12) **(2019-20)** **5914**

2 semesters

Principles of Marketing provides a basic introduction to the scope and importance of marketing in the global economy. Emphasis is placed on oral and written communications, mathematical applications, problem-solving, and critical thinking skills as they relate to advertising/promotion/selling, distribution, financing, marketing information management, pricing, and product/service management.

Counts as a Directed Elective or Elective for all diplomas

BUSINESS (continued)

The following courses replace Business Technology Lab. The class will meet for two semesters and two blocks per semester. Students will declare one of the following courses for their concentration during the course. Membership in Business Professionals of America, co-curricular Career and Technical Student Organization, will be required. Students will not only perform standards within each course but will develop a portfolio and employability skills throughout the courses. The course will be using college texts, so cost for class will be more than what is shown.

Business Management, Advanced

BUSINESS MANAGEMENT, ADVANCED (11, 12) 5268 Ivy Tech Dual Credit

Advanced Business Management prepares students to plan, organize, direct, and controls the functions and processes of a firm or organization and to perform business-related functions. Students are provided opportunities to develop attitudes and apply skills and knowledge in the areas of business administration, management, and finance. Individual experiences will be based upon the student's career and educational goals.

PREREQUISITE: Principles of Bus Mgmt and Ivy Tech Accuplacer or PSAT scores within acceptable ranges.

CC: TBD

Computer Science I (10,11,12) 4801 (2020-21)

2 semesters

Computer Science I introduces the structured techniques necessary for efficient solution of business-related computer programming logic problems and coding solutions into a high-level language. The fundamental concepts of programming are provided through explanations and effects of commands and hands-on utilization of lab equipment to produce accurate outputs. Topics include program flow-charting, pseudo coding, and hierarchy charts as a means of solving problems. The course covers creating file layouts, print charts, program narratives, user documentation, and system flowcharts for business problems; algorithm development and review, flowcharting, input/output techniques, looping, modules, selection structures, file handling, control breaks, and offers students an opportunity to apply skills in a laboratory environment. • Recommended Grade Level: 10, 11, 12

- Required Prerequisites: Introduction to Computer Science
- Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum
- Counts as a Directed Elective or Elective for all diplomas

Required Prerequisites - Intro to Business or Principles of Business Management and Digital Applications I

ENGLISH LANGUAGE ARTS

***Students may also be required to purchase paperback books. Fees subject to change**

ENGLISH 9 (9) 1002

2 semesters

This course offers a variety of speaking, reading, writing, and listening opportunities to impress students with the importance and usefulness of language in all aspects of life work. Students may be required to buy a paperback book.

CC: \$8.00

ENGLISH 9 (HONORS) (9) 1003

2 semesters

This course is designed for the 9th grade student who has shown a high degree of skill in the language arts. The course will parallel English 9 but will use different, more advanced materials. The student can expect a more intense study in the areas of literature and composition. **Enrollment is open to students carrying an A or B average in the previous English course. Students are required to maintain at least a B average.**

CC: \$8.00

ENGLISH 10 (10) 1004

2 semesters

The first semester is designed to acquaint the student with the techniques of short story analysis. The second semester will focus on drama and novels, with a special emphasis on The Tragedy of Julius Caesar. Plot, theme, symbols, characterization, and conflict are emphasized. Informal essays are read, and they are categorized as literature written to entertain, to inform, to explain, and to persuade. Grammar and writing are also integral parts of study throughout the first and second semesters. Analytical essays are written throughout the year. Poetry is read and analyzed for meaning and mood.

CC: \$10.48

ENGLISH 10 (HONORS) (10) 1005

2 semesters

Enrollment in this class is open to all students. Students MUST maintain a "B" average to remain in this class. The first semester consists of intense study of grammar and short stories. The second semester consists of the study of poetry, drama, and novels. **There may be an added cost of approximately \$10 for the purchase of books to be used during the second semester.**

Enrollment is open to students carrying an A or B average in the previous years English course. Students are required to maintain at least a B average.

CC: \$10.48

ENGLISH LAB (10, 11, 12) 1012

1 semester

Language Arts Lab is a supplemental course that provides students with individualized or small group instruction designed to support success in completing course work aligned with the Indiana Academic Standards for English Language/Arts focusing on the writing standards. All students should be concurrently enrolled in an English course in which class work will address all of the Indiana Academic Standards.

CC: \$0.00

ENGLISH 11 (11) 1006

2 semesters

This course concentrates on American Literature with related composition and grammar study. Students will study poetry, short stories, speeches and drama from important figures in the American canon. Students will use nonfiction to supplement their knowledge of topics discussed in class and to write a research paper.

CC: \$10.52

ENGLISH LANGUAGE ARTS (continued)

ENGLISH 12 (12) 1008

2 semesters

This course is designed to be a preparatory course for college freshman English. Students will study poetry, short stories, drama, and other genres of literature from the British tradition. Students will also write several different essays and creative writing pieces, practice research techniques and present their findings in several formats, and work together and individually to complete long-term projects.

CC: \$10.52

ENGLISH 111 OR AP LANGUAGE AND COMPOSITION (11,12) 1124

Ivy Tech Dual Credit or AP

2 semesters

English Composition is designed to develop students' abilities to think, organize, and express their ideas clearly and effectively in writing. This course incorporates reading, research, and critical thinking. Emphasis is placed on the various forms of expository writing such as process, description, narration, comparison, analysis, persuasion, and argumentation. A research paper is required. Numerous in-class writing activities are required in addition to extended essays written outside of class. This course is offered through Ivy Tech and students will have the opportunity to earn dual credits.

PREREQUISITE: Ivy Tech Accuplacer or PSAT scores within acceptable ranges.

CC: \$8.09

ENGLISH 206 OR AP LITERATURE AND COMPOSITION (11, 12) 1058

Ivy Tech Dual Credit or AP

2 semesters

Development of basic strategies for critically reading and interpreting poetry, fiction, and drama; introduction to the premises and motives of literary analysis and critical methods associated with various literary concerns through class discussion and focused writing assignments.

This course is designed to meet the standards of academically-minded seniors who will attend a second-tier university or better and desire in-depth instruction in literature and composition. Study of literature will focus on literature from a variety of genres and traditions. Study of composition will include rhetorical techniques as well as intense academic writing. Students will be expected to buy some texts outside of the normal book fees. This course is offered through Ivy Tech and students will have the opportunity to earn dual credits.

PREREQUISITE: ENGL 111 and Ivy Tech Accuplacer or PSAT scores within acceptable ranges.

CC: \$7.68

LIBRARY MEDIA (11, 12) 1082

1 semester

This course is offered as an independent study each semester and is designed for juniors and seniors. In this course, students examine the role of the library and technology in the current Information Age. In addition to serving all students and teachers as an assistant in the library, students in this course will learn and understand library operations that allow our library to work. Students will also use electronic resources for specific research needs and use multimedia presentation technology for practical applications. Students may take the course multiple semesters with each section tailored to the student's academic needs and interests. Foci can include, but are not limited to: videography, graphic design, database management, marketing, and STEM (science, technology, engineering, and mathematics).

PREREQUISITE: Student has served as a library tech during his/her study hall a previous semester/year AND Librarian/Media Specialist Recommendation

NOTE: This course is a prerequisite for Work-Based Learning Opportunities in the junior/senior high school or elementary school libraries. This course counts as an elective for all diplomas

CC: TBD

ADVANCED SPEECH AND COMMUNICATION 1078 (ADV SPEECH)

Advanced Speech and Communication, a course based on the Indiana Academic Standards for English/Language Arts and emphasizing the High School Speech and Communication Standards, is the study and application of skills in listening, oral interpretation, media communications, research methods, and oral debate. Students deliver different types of oral and multimedia presentations, including speeches to inform, to motivate, to entertain, and to persuade through the

use of impromptu, extemporaneous, memorized, or manuscript delivery.

FAMILY AND CONSUMER SCIENCE

INTERPERSONAL RELATIONS (8, 9, 10, 11, 12)** **5364 (2019-2020, 2020-2021, 2021-2022, 2022-2023)**

1 semester

This 1 semester course is designed for 8th, 9th, & 10th grade students but is also open to 11th & 12th grade students. It is especially relevant for students interested in careers that involve interacting with people. It is also valuable for all students as a life foundation and academic enrichment. This course addresses knowledge and skills needed for positive and productive relationships in career, community, and family settings. The course is built around The Seven Habits of Highly Effective Teens and soft skills needed in the workplace. Examples of activities may include: relaxation day, communication activities, relationship activities, conflict resolution, teamwork, leadership, getting to know you, working with others, keeping renewed. It is found in the Education & Training, Health Science, Hospitality & Tourism, Human Services, and Law, Public Safety, Corrections & Security pathways. ***This course is one of the three FACS courses students must take to waive Health and Safety credit (Health 10) – See Rule 511 IAC 6-7.1-4*** PREREQUISITE: None CC: TBD

NUTRITION AND WELLNESS (9, 10, 11, 12)** **5342 (2019-2020, 2020-2021, 2021-2022, 2022-2023)**

1 semester

This 1 semester course is designed for 9, 10, 11, and 12th grade students. This is an introductory course that is valuable for all students for basic life skills and academic enrichment as well as for students pursuing a career in the food industry. This course introduces students to basic food preparation and topics such as: introduction to basic nutrition, safety and sanitation, food science, food preparation experiences, menu planning and wellness. Labs may include: smoothies, veggie pizza, quesadilla, chili cook-off, breakfast, pizza, pastry, and planning a company meal. The meal will be prepared and served to guests (staff) as part of the LIA (exam). Nutrition & Wellness is the first part of a sequence of courses that provides a foundation for continuing education in careers related to nutrition, foods, and wellness. It is found in the Hospitality / Culinary Arts pathways. *****This course is one of the three FACS courses students must take to waive Health and Safety (Health 10) credit – See Rule 511 IAC 6-7.1-4.*** PREREQUISITE: None CC: TBD

ADVANCED NUTRITION AND WELLNESS (10, 11, 12) **5340 (2019-2020, 2020-2021, 2021-2022, 2022-2023)**

1 semester

This 1 semester course is designed for 10, 11, and 12th grade students. This is recommended for all students wanting to improve their nutrition and learn how nutrition affects the body. It is especially suggested for students interested in careers in the medical field, athletic training, and dietetics. This course builds on skills learned in Nutrition and Wellness. Topics include: major nutrients, nutrition, influences on nutrition/food choices including technology, safe food handling, and careers. Examples of labs may include: demonstration recipes using small appliances, meats, beverages, casseroles, cake decorating, foreign foods, snack business, and celebration meal including shopping within a budget including a trip to the grocery store. Advanced Nutrition & Wellness is the second part of a sequence. Advanced Nutrition & Wellness is the second part of a sequence of courses that provides a foundation for continuing education in careers related to nutrition, foods, and wellness. It is found in the Hospitality/Culinary Arts pathway. PREREQUISITE: NUTRITION AND WELLNESS. CC: TBD

INTRODUCTION TO CULINARY ARTS AND HOSPITALITY (10, 11, 12) **5438 (2020-2021, 2022-2023)**

2 semesters

This 2 semester course is designed as a capstone course for students who have taken Nutrition and Wellness and Advanced Nutrition and Wellness. It is especially relevant for students interested in careers that are related to Hospitality, Tourism, and Culinary Arts. It is also beneficial for students planning to attend Culinary Arts at the Vocational School. It is also valuable for all students as a life foundation and academic enrichment. This course builds basic culinary arts knowledge and skills. Topics include basic culinary skills in the foodservice industry, safety and sanitation, nutrition, customer relations, career investigation, and advanced preparation skills. Students will have opportunity to prepare food to be served outside of the classroom, learn more in-depth information about various foods and participate in labs. Students will be given the opportunity to complete a ServSafe course which may allow them to receive state certification from the Indiana Restaurant Association. It is found in the Culinary Arts and Hospitality pathway.

PREREQUISITE: NUTRITION AND WELLNESS (BEGINNING), ADVANCED NUTRITION AND WELLNESS (ADVANCED)
CC: TBD Per Semester for a total of \$TBD

FAMILY AND CONSUMER SCIENCE (continued)

INTRODUCTION TO FASHION AND TEXTILES (1st semester) (9, 10, 11, 12) **5380 ISU Dual Credit** **(2020-2021, 2022-2023)**

1 semester

This 1 semester course is designed for 9, 10, 11, and 12th grade students. This is an introductory course for students interested in academic enrichment or a career in the fashion, textile, and apparel industry. This course addresses knowledge and skills related to design, production, acquisition, and distribution in the fashion, textile, and apparel arena. A project-based approach integrates instruction and laboratory experiences including application of the elements and principles of design; selection, production, alteration, repair, and maintenance of apparel and textile products; product research, development, and testing; and application of technical tools and equipment utilized in the industry. Some projects will include: tie dying, pillowcase, pajama pants, and baby blanket. The course includes the study of personal, academic, and career success; careers in the fashion, textile, and apparel industry; factors influencing the merchandising and selection of fashion, textile, and apparel goods and their properties, design, and production; and consumer skills. Visual arts concepts will be addressed. Direct, concrete mathematics proficiencies will be applied. Service learning and other authentic applications are planned. This course provides the foundation for continuing and post-secondary education in fashion, textile, and apparel-related careers. This course will count as a fine arts credit toward Academic and Technical Honors diplomas. As part of the dual credit TAM111, some projects will include: basic stitching, construction samples, skirt construction, blouse or shirt construction.

PREREQUISITES: none Extra expense will be needed for projects and if taking for dual credit.

CC:TBD

INTRODUCTION TO FASHION AND TEXTILES (2nd semester) (9, 10, 11, 12) **5380 ISU Dual Credit** **(2020-2021, 2022-2023)**

1 semester

This 1 semester course is designed for 9, 10, 11, and 12th grade students who have taken the 1st semester course. This course is for students interested in continuing academic enrichment or a career in the fashion, textile, and application of content in an intensive laboratory applications are a component of this course and may be either school based or work based or a combination of the two. Some projects will include: various seam samples; clothing project; design, write instructions for, make a pattern for, and sew a quilt. Service learning and other authentic applications are planned. This course counts as a fine arts credit toward Academic and Technical Honors diplomas. As part of the dual credit TAM111, some projects will include: messengers bag, blouse, and pants.

PREREQUISITES: none, INTRODUCTION TO FASHION AND TEXTILES (1st semester) is highly recommended.

Extra expense will be needed for projects and if taking for dual credit.

CC: TBD

INTRODUCTION TO HOUSING AND INTERIOR DESIGNS (9, 10, 11, 12) **5350 (2019-2020, 2021-2022)**

1 semester

This course is an introductory course essential for those students interested in academic enrichment or a career within the housing, interior design, or furnishings industry. This course addresses the selection and planning of designed spaces to meet the needs, wants, values and lifestyles of individuals, families, clients, and communities. Housing decisions, resources and options will be explored including factors affecting housing choices and the types of housing available. Developmental influences on housing and interior environments will also be considered. Basic historical architectural styling and basic furniture styles will be explored as well as basic identification of the elements and principles of design. Design and space planning involves evaluating floor plans and reading construction documents while learning to create safe, functional, and aesthetic spaces. Presentation techniques will be practiced to thoroughly communicate design ideas. Visual arts concepts will be addressed. Direct, concrete mathematics proficiencies will be applied. A project based approach will be utilized requiring higher-order thinking, communication, leadership and management processes as housing and interior design content is integrated into the design of interior spaces while meeting specific project criteria. This course provides the foundation for further study and careers in the architecture, construction, housing, interior design, and furnishings industries. This course counts as a fine arts credit toward Academic and Technical Honors diplomas.

PREREQUISITES: none

FAMILY AND CONSUMER SCIENCE (continued)

CHILD DEVELOPMENT (10, 11, 12)** 5362 (2020-2021, 2022-2023)

1 semester

This 1 semester course is designed for 10, 11, and 12th grade students. This is an introductory course that is valuable for all students for basic life skills and academic enrichment as well as for students pursuing a career that works with children. This course addresses issues of child development from conception/prenatal through age 3. It includes the study of prenatal development and birth; growth and development of children; child care giving and nurturing; and support systems for parents and caregivers. The physical, intellectual, social and emotional aspects of human development from conception through the third year of life will be studied. Various activities are planned to reinforce instructional learning. This course provides the foundation for continuing and post-secondary education in all career areas related to children as well as parenting skills for the future. It is found in the Education / Training, Education Professions, and Human Service pathways. ****This course is one of the three FACS courses students must take to waive Health and Safety (Health 10) credit – See Rule 511 IAC 6-7.1-4**

CC: TBD

ADVANCED CHILD DEVELOPMENT (10, 11, 12) 5360 (2019-2020, 2021-2022)

1 semester

This 1 semester course is designed for 10, 11, and 12th grade students. This is for those students interested in life foundations, academic enrichment, and/or careers related to knowledge of children, child development, and nurturing of children. This course builds on the *Child Development* course, but can be taken independently, and addresses issues of child development from age 3 through age adolescents. It includes the study of professional and ethical issues; growth and development; development theories, research, and best practices; health and wellness; teaching and guiding; special conditions affecting children; and career exploration in child development and nurturing. In addition to learning about the development, field trips to various centers will be used as reinforcement as well as working with children in various settings. We plan and operate a preschool for 3-5 year olds at a local center, and work with elementary students when possible. This course provides the foundation for continuing and post-secondary education in all career areas related to children. It is found in the Education / Training, Education Professions, Human Service, pathways. PREREQUISITES: none, CHILD DEVELOPMENT is highly recommended.

CC: TBD

ADULT ROLES AND RESPONSIBILITIES (10, 11, 12)** 5330 (2019-2020, 2021-2022)

1 semester

This 1 semester course is designed for 10, 11, and 12th grade students. It is especially relevant for students interested in careers that involve family and community services, personal and family finance, & similar areas. It is also valuable for all students as a life foundation and academic enrichment. This course builds skills that are needed as students prepare to enter the adult world by covering such topics as: interpersonal relations, roles and responsibilities, & resource and financial management. Dave Ramsey, Financial Peace University, is incorporated. Examples of activities may include: budgeting, checking, dream home and decorating, new vs. used autos, job preparation and meal on a budget. It is found in the Human Services Cluster (both Family and Community Services & Family and Social Services, Youth Development, etc) & Education and Training pathways. ****This course is one of the three FACS courses students must take to waive Health and Safety (Health 10) credit – See Rule 511 IAC 6-7.1-4** PREREQUISITES: none

CC: TBD

****These courses can count for one (1) of the three (3) credits needed for the Health and Safety (Health 10) credit waiver.**

MATHEMATICS

ALGEBRA I (9, 10, 11, 12) **2520**

2 semesters

Algebra I provides a formal development of the algebraic skills and concepts necessary for students to succeed in advanced courses. In particular, the instructional program in this course provides 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: (1) operations with real numbers, (2) linear equations and inequalities, (3) relations and functions, (4) polynomials, (5) algebraic fractions, and (6) nonlinear equations.

- A Core 40 and AHD course with standards defined
- A two credit course

CC: \$22.84

GEOMETRY (9, 10, 11, 12) **2532**

2 semesters

Geometry provides students with experiences that deepen the understanding of two- and three-dimensional objects and their properties. Deductive and inductive reasoning, 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, right triangles, (3) circles, and (4) polyhedral and other solids. An understanding of proof and logic is developed. Use of graphing calculators and computer drawing programs is encouraged.

- Prerequisite: Algebra I (Exceptions may be made at the discretion of the instructor.)
- A Core 40 and AHD course with standards defined
- A two credit course

CC: \$22.84

ALGEBRA II (9, 10, 11, 12) **2522**

2 semesters

Algebra II is a course that extends the content of Algebra I and provides further development of the concept of a function. Topics include: (1) relations, functions, equations, and inequalities, (2) conic sections, (3) polynomials, (4) algebraic fractions, (5) logarithmic and exponential functions, (6) sequences and series, and (7) counting principles and probability.

- Prerequisite: Algebra I (Exceptions may be made at the discretion of the instructor.)
- A Core 40 and AHD course
- A two credit course

CC: \$22.84

INTEGRATED MATHEMATICS I (9,10,11,12) **2554**

2 semesters

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 use 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.

Recommended Prerequisites: none

CC: TBD

MATHEMATICS Continued

INTEGRATED MATHEMATICS II (10,11,12) **2556**

2 semesters

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.

- Recommended Prerequisites: Integrated Mathematics I

CC: TBD

Integrated Mathematics III (11,12) **2558**

2 Semesters

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.

CC: TBD

PRE-CALCULUS/TRIGONOMETRY (11, 12) **2564** **Ivy Tech Dual Credit**

1 semester

Pre-Calculus blends concepts and skills that must be mastered before 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) relations and functions, (2) exponential and logarithmic functions, (3) sequences and series, and (4) data analysis.

- Prerequisites: Algebra I, Algebra II, and Geometry (At the discretion of the instructor, Pre-Calculus may be taken concurrently with Algebra II or Geometry.) Ivy Tech Accuplacer or PSAT scores within acceptable ranges.
- A Core 40 and AHD course with competencies defined
- A two credit course

CC: \$12.67

PRE-CALCULUS/TRIGONOMETRY/HONORS (11, 12) **2565** **Ivy Tech Dual Credit**

1 semester

Honors Pre-Calculus is an accelerated course that blends concepts and skills that must be mastered to achieve a higher score on the AP Calculus exam. A functional approach provides for the integration of all of the concepts listed for the course in Trigonometry plus: (1) relations and functions, (2) exponential and logarithmic functions, (3) sequences and series, and (4) data analysis.

- Prerequisites: Algebra I, Algebra II, and Geometry (At discretion of instructor, Pre-Calculus may be taken concurrently w/ Algebra II or Geometry.) and Ivy Tech Accuplacer or PSAT scores w/in acceptable ranges.
- A Core 40 and AHD course with competencies defined
- A two credit course

CC: \$12.67

MATHEMATICS Continued

CALCULUS HONORS OR ADVANCED PLACEMENT (11, 12) **2527 Ivy Tech Dual Credit**

2 semesters

Calculus, Advanced Placement is a course that provides students with the content established by the College Board. The course follows College Board Entrance Examination guidelines for advanced placement calculus. Topics include: (1) limits and continuity, (2) differential calculus, (3) applications of derivatives, (4) integral calculus, and (5) applications of integration. The use of graphing technology is required.

- Prerequisite: Pre-Calculus and Ivy Tech Accuplacer or PSAT scores within acceptable ranges.
- A Core 40 and AHD course with standards defined
- A two credit course

CC: \$43.26

AP PROBABILITY AND STATISTICS (11, 12) **2546**

1 semester

Probability and Statistics includes the concepts and skills needed to apply statistical techniques in the decision-making process. Topics include: (1) descriptive statistics, (2) probability, and (3) statistical inference. 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.

- Prerequisites: Algebra II, Geometry
- A Core 40 and AHD course with standards defined
- A one credit course

CC: \$19.00

FINITE MATHEMATICS (11, 12) **2530**

Ivy Tech Dual Credit

1 semester

Discrete Mathematics is an umbrella of mathematics topics. It is a course designed for students who will undertake higher-level mathematics in college that may not include calculus. Topics included: (1) counting techniques, (2) matrices, (3) recursion, and other topics chosen from (4) graph theory, (5) social choice, (6) linear programming, and (7) game theory. Technology, such as computers and graphing calculators, should be used frequently.

- Prerequisite: Algebra II, Geometry, and Ivy Tech Accuplacer or PSAT scores within acceptable ranges
- A Core 40 and AHD course with standards defined
- A one credit course

CC: \$19.50

MUSIC

BEGINNING CHORUS (HIGH SCHOOL CHOIR) (9, 10, 11, 12) 4182

2 semesters

Do you enjoy singing with a group? Students in grades 9-12 may participate in high school choir to develop musicianship and specific performance skills through ensemble and solo singing. Activities involve performing, creating and responding to a diverse repertoire of music appropriate in difficulty and range for the students. Students are required to participate in performance opportunities outside of the school day.

CC: TBD

MUSICAL THEATRE (DRAMA/SPEECH) (9, 10, 11, 12) 0518

2 semesters

Interested in learning more about the theatre? Students in the musical theatre class will study the history of musical theatre, explore career opportunities in the theatre, attend and critique a theatrical production(s). Students will also participate in staging, choreographing, rehearsing and performing an original or existing musical work.

CC: TBD

BEGINNING CONCERT BAND (HIGH SCHOOL BAND) (9, 10, 11, 12) 4160

2 semesters

A wide variety of literature is performed with a continued emphasis on improving individual and group musical skills. Several concerts and other performances are scheduled throughout the school year. All students will participate in the ISSMA Organizational Contest in April. Other performances include Pep band for boys' and girls' varsity basketball games, marching band during football season, community parades, and various concerts. Performances are mandatory. Marching Band is optional during the summer, beginning in June and running through August. Students will be exposed to sight-singing, ear-training, theory, history, and composition. Additional costs may be incurred for additional items.

CC: TBD

MUSIC THEORY AND COMPOSITION (10, 11, 12) 4208

1 Semester

Students learn the fundamentals of music. Ear training will be done and, depending on the class size, some keyboard experience is possible. Emphasis will be a more in-depth focus on fundamentals of music theory and composition, as compared to the performance classes. This course is strongly recommended for students who are considering music as a vocation.

PREREQUISITE: STUDENTS SHOULD ALSO BE IN A PERFORMING GROUP SUCH AS BAND/CHOIR. OTHER STUDENTS MAY BE ENROLLED ONLY WITH THE PERMISSION OF THE TEACHER.

CC:TBD

PHYSICAL EDUCATION - HEALTH EDUCATION

PHYSICAL EDUCATION I & II (9) 3542 and 3543

2 Semesters- 1 Credit (1 credit per semester)

Physical Education I is first semester and Physical Education II is second semester. Successful completion of this course is required to meet state graduation, Academic Honors, and Core 40 diploma requirements. This course includes the major content areas in a planned, sequential, comprehensive physical education curriculum as expressed in the Indiana Health Education Proficiency Guide:

Demonstrate competency in many movement forms and proficiency in a few movement forms (includes a required section of swimming)

Applies movement concepts and principles to the learning and development of motor skills.

Exhibit a physically active lifestyle.

Achieve and maintain a health enhancing level of physical fitness.

Demonstrate responsible personal and social behavior in physical activity settings.

Demonstrate understanding and respect for differences among people in physical activity settings.

Understand that physical activity provides the opportunity for enjoyment, challenge, self-expression, and social interaction.

CC: TBD

ELECTIVE PHYSICAL EDUCATION-LIFETIME ACTIVITIES (10, 11, 12) 3561

1 Semester

This course is provided for those students who have passed Basic Physical Education and wish to continue taking a physical education class. The class will provide the student with a greater understanding of both individual and team sports, by emphasizing different skills, and concepts while engaged in physical and mental activities. Additional emphasis will be placed on officiating skills and mechanics in areas of team sports while the overall objective is for the student to develop a positive understanding of lifetime fitness activities. The course will include trips, projects, tapes, speakers, etc., to emphasize lifetime fitness.

PREREQUISITE: B OR BETTER IN BASIC PHYSICAL EDUCATION, AND B OR BETTER IN PREVIOUS WEIGHT TRAINING CLASS, OR THE INSTRUCTOR'S APPROVAL.

CC: TBD

ELECTIVE PHYSICAL EDUCATION-LIFE GUARDING (10, 11, 12) 3560

1 Semester

The Life-Guarding course is designed for students who want to become certified in the American Red Cross Life-Guarding CPR, and First Aid Course. Enrollment does not guarantee student certification. This course may be taken for one semester during the student's 10th, 11th, and 12th grade year. If the student does not meet the American Red Cross standards for certification, they may retake the course on additional semester.

PREREQUISITES: THE STUDENT MUST PASS THE AMERICAN RED CROSS PRE-COURSE SCREENING FOR LIFEGUARD TRAINING, B OR BETTER IN BASIC PE, AND B OR BETTER IN THIS COURSE TO RETAKE THE COURSE WITH INSTRUCTOR'S APPROVAL.

CC: None, at the end of the semester, students who have passed will need to pay for their license.

CC: TBD

PHYSICAL EDUCATION - HEALTH EDUCATION

ELECTIVE PHYSICAL EDUCATION-WEIGHT TRAINING & CONDITIONING (10, 11, 12) **3562**

1 Semester

Students who have completed Basic Physical Education may select this course and it may be taken for four semesters, as long as the student has at least a B or better in the previous course. The course will consist of special applications and concentration on physical endurance, strength, cardiovascular fitness, and individual skills in their selected areas, including individual programs with tests, workouts, and record keeping.

PREREQUISITE: B OR BETTER IN BASIC PHYSICAL EDUCATION, AND B OR BETTER IN PREVIOUS WEIGHT TRAINING CLASS, OR THE INSTRUCTOR'S APPROVAL.

CC: TBD

ELECTIVE PHYSICAL EDUCATION—AEROBIC FITNESS (10, 11, 12) **3563**

1 Semester

This class is a participation oriented class. Students will take part in aerobic activities which may include (jogging, power walking, step aerobics, water aerobics, water jogging, circuit training, stationary bikes, and jump ropes). The use of light free weights will also take place. Students will learn how to monitor their nutritional needs and workout program.

Students will keep logs showing improvement during the class.

CC: TBD

HEALTH EDUCATION (10) **3506**

1 Semester, 1 Credit

High School health education provides the basis for continued methods of developing knowledge, concepts, skills, behaviors, and attitudes related to student health and well-being. This course includes the major content areas in a planned, sequential, comprehensive health education curriculum as expressed in the Indiana Health Education Proficiency Guide. Students are provided with opportunities to explore the effect of health behaviors on an individual's quality of life. This course assist students in understanding the health is lifetime commitment by analyzing individual risk factors and health decisions that promote health and prevent disease. Students are also encouraged to assume individual responsibility for becoming competent health consumers. A variety of instructional strategies, including technology, are used to further develop health literacy. This course will include American Red Cross Adult CPR. This course is required to meet state graduation, Academic Honors Diploma and Core 40 requirements.

CC: TBD

ADVANCED HEALTH (10, 11, 12) **3500**

1 Semester

Advanced Health is an elective that offers an in-depth study of the content areas of the Indiana Health Proficiency Guide. This course focuses on health concerns and risk appraisals, which might include: Individual wellness plans, chronic and communicable diseases, stress management, personal fitness, and substance abuse. Careers in health are addressed within the context of the course.

CC: TBD

SCIENCE

BIOLOGY I (9, 10, 11, 12) **3024**

2 semesters

Biology is the study of life. This course will focus on 4 major units of study that will include: Cells and Life processes, Genetics, Evolution, and Ecology/Environmental Science. This class will provide the opportunity for regular laboratory investigations. The following instructional techniques will be used: laboratory demonstrations and activities, small projects, research activities, cooperative learning groups, homework assignments, computer work, lecture/multimedia presentations and chapter and semester tests.

RECOMMENDATION: ICP/ CHEMISTRY PRIOR TO BIOLOGY I

CC: \$24.50

CHEMISTRY I (9, 10, 11, 12) **3064**

2 semesters

Chemistry I is an interactive course that looks at a wide variety of topics in the Chemistry world including but not limited to the following: History of Chemistry Development, Laws, and Theories, Structure of atoms, chemical Reactions Gases, Acids/Bases, Relating Chemistry to everyday activities, Trends of the Periodic Table of Elements, and Laboratory Safety. The following instructional techniques will be used in this course: lab work. Lecture, Demonstrations, Problem-solving, and Cooperative learning. This course will have some analytical math work included throughout the school year.

PREREQUISITE: ICP AND ALGEBRA I.

CC: \$24.50

INTEGRATED CHEMISTRY-PHYSICS (ICP) (9, 10, 11, 12) **3108**

2 semesters

Integrated Chemistry-Physics is a course focused on the following core topics: motion and energy of macroscopic objects; chemical, electrical, mechanical and nuclear energy; properties of matter; transport of energy; magnetism; energy production and its relations to environment and economy. Instruction should focus on developing student understanding that scientific knowledge is gained from observation of natural phenomena and experimentation by designing and conducting investigations guided by theory and by evaluating and communicating the results of those investigations according to accepted procedures.

- Recommended Prerequisite: Algebra I (may be taken concurrently with this course)
- Credits: A two credit course
- Fulfills a 2 credit requirement for a physical science for the General, Core 40, Core 40 with Academic Honors, and Core 40 with Technical Honors diplomas

CC: \$30.17

BIOLOGY II or BIOLOGY 101 (11, 12) **3026**

Ivy Tech Dual Credit

2 semesters

Biology II is an advanced laboratory, field, and literature investigations-based course. Students enrolled in Biology II examine in greater depth the structures, functions, and processes of living organisms. Students also analyze and describe the relationship of Earth's living organisms to each other and to the environment in which they live. In this course, students refine their scientific inquiry skills as they collaboratively and independently apply their knowledge of the unifying themes of biology to biological questions and problems related to personal and community issues in the life sciences.

PREREQUISITE: BIOLOGY I (C or better), CHEMISTRY I (C or better)

CC: \$65.75

EARTH AND SPACE SCIENCE I (9, 10,11,12) **3044**

2 semesters

Earth Space provides a study of Earth's lithosphere, atmosphere, and hydrosphere, and its environment. This course emphasizes the functioning of cyclical patterns such as energy, earth materials, water and other elements essential to the structure and function of the Earth and universe. Students will have the opportunity to explore the history of the development of the earth and space sciences, to explore the uses of knowledge of the earth and its environment in various careers, personal needs and social issues. Along with a prescribed earth and space science curriculum, students will also participate in a basic skills program designed to ensure mastery of the essential skills needed to be successful in advanced science classes. Finally, students will be expected to design, create, and complete four major projects throughout the school year.

CC: \$24.50

CHEMISTRY II or CHEMISTRY 101 (11, 12) 3060

Ivy Tech Dual Credit

2 semesters

Chemistry II is an extended laboratory, field, and literature investigations-based course. Students enrolled in Chemistry II examine the chemical reactions of matter in living and nonliving materials. Based on the unifying themes of chemistry and the application of physical and mathematical models of the interactions of matter, students use the methods of scientific inquiry to answer chemical questions and solve problems concerning personal needs and community issues related to chemistry.

PREREQUISITE: CHEMISTRY I, ALGEBRA II (B OR BETTER) and Ivy Tech Accuplacer or PSAT scores within acceptable ranges.

CC: \$65.82

AP PHYSICS (11, 12) 3080

2 semesters

AP Physics will be taught through a partnership with the New Castle School Corporation. This course will be taught at New Castle High School and students must provide their own transportation to and from New Castle High School.

PREREQUISITE: PRE-CALCULUS

CC: \$48.32

AP ENVIRONMENTAL SCIENCE (11, 12) 3012

2 semesters

Environmental Science is an interdisciplinary course that integrates biology, earth science, chemistry, and other disciplines. Students enrolled in this course conduct in-depth scientific studies of: environmental systems; flow of matter and energy; natural disasters; environmental policy; biodiversity; population; pollution; natural and anthropogenic resource cycles. Students formulate, design, and carry out laboratory and field investigations as an essential course component. Students completing Environmental Science, acquire the essential tools for understanding the complexities of national and global environmental systems.

PREREQUISITE: ICP, BIOLOGY I and CHEMISTRY I. (C or better)

CC: \$46.38

ADVANCED LIFE SCIENCE: ANIMALS (11, 12) 5070

Ivy Tech Dual Credit

2 semesters

Advanced Life Science: Animals provides students with opportunities to participate in a variety of activities including laboratory work. Students investigate concepts that enable them to understand animal life and animal science as it pertains to agriculture. Through instruction, including laboratory, fieldwork, leadership development, supervised agricultural experience and the exploration of career opportunities, they will recognize concepts associated with animal taxonomy, life at the cellular level, organ systems, genetics, evolution, and ecology, historical and current issues in animal agriculture in the area of advanced life science in animals. This class will count for a Core 40 Science elective.

SOCIAL STUDIES

GEOGRAPHY & HISTORY OF THE WORLD (9,10,11,12) 1570

2 Semesters

Geography and History of the World is a two semester alternative to the standard World History course. Students use geographical and historical skills and concepts to deepen their understanding of the global themes contained in the standards. The skills provide the research tools needed to think geographically and historically; ask geographic and historical questions; acquire geographic and historical information relevant to these questions; produce maps, timelines and other graphic representation to organize and display the information acquired; interpret maps, timelines and other graphic representation to solve geographic and historical problems and to analyze world events and suggest feasible solutions to world problems; reach conclusions about the geographic and historical questions posed and give verbal, written, graphic, and cartographic expression to conclusions. The concepts provide the intellectual tools needed to think geographically and historically: changes over time, cultural landscape, diffusion, human environment interactions, human livelihoods, national character, origin, physical systems, sense of place, spatial distribution, spatial interaction, spatial organization, and spatial variation.

CC:\$15.19

WORLD HISTORY AND CIVILIZATION (9*,10,11,12) 1548

2 Semesters

World History is a two-semester course. It emphasizes events and developments in the past that greatly affected large numbers of people across broad areas of the earth and that significantly influenced peoples and places in subsequent eras. Some key events and developments pertain primarily to particular people and place; others, by contrast, involve transcultural interactions and exchanges between various peoples and places in different parts of the world. Students are expected to practice skills and processes of historical thinking and inquiry that involve chronological thinking, comprehension, analysis and interpretation, research, issues-analysis, and decision-making. They are expected to compare and contrast events and developments involving diverse peoples and civilizations in different regions of the world. Students are expected to examine examples of continuity and change, universality and particularity, and unity and diversity among various peoples and cultures from the past to the present. Finally, students are expected to apply content knowledge to the practice of thinking and inquiry skills and processes. There should be continuous and pervasive interactions of processes and content, skills and substance, in the teaching and learning of history. *Freshman that completed Honors 8th grade U.S. History in good standing may be eligible for the course with approval from guidance and Social Studies Department Chair.

CC: \$17.52

UNITED STATES HISTORY (11) 1542

2 Semesters (Two semesters required for graduation)

United States History is a two-semester course, which builds upon concepts developed in previous studies of American history. Students in this course are expected to identify and review significant events, persons, and movements in the early development of the nation. After providing such a review, the course gives major emphasis to the interaction of key events, persons, and groups with political, economic, social, and cultural influences on state and national development in the late nineteenth, twentieth, and early twenty-first centuries. Students are expected to trace and analyze chronological periods and examine the relationship of significant themes and concepts in Indiana and United States history. They are expected to develop skills and processes of historical thinking and inquiry that involve chronological thinking, comprehension, analysis and interpretation, and research that use primary and secondary sources found at local and state historic sites, museums, libraries, and archival collections, including electronic sources. Opportunities are given to develop inquiry skills by gathering and organizing information from primary source material and a variety of historical and contemporary sources, accounts, and documents, which provide diverse perspectives. Investigation of themes and issues includes cultural pluralism and diversity of opinion in American society. Students should exercise their skills as citizens in a democratic society by engaging in problem solving and civic decision-making in the classroom, school, and community setting.

CC: \$14.82

SOCIAL STUDIES (continued)

UNITED STATES HISTORY (11) 1544

Ivy Tech Dual Credit

2 Semesters 3 credit hours

This two semester course covers the evolution of American society: political, economic, social structure, racial and ethnic groups; world diplomacy of the United States, territorial expansion, industrialization, urbanization, international events and their impact on American history. H106 covers 1865 to the present. This course is being offered simultaneously within United States History Honors 11. Students may choose to take H106 for college credit or Honors 11 which is not for college credit.

PREREQUISITE: Ivy Tech Accuplacer or PSAT scores within acceptable ranges.

CC: \$14.82

ECONOMICS (11, 12) 1514

1 Semester

Economics is the social studies course that examines the allocation of scarce resources and their alternative uses for satisfying human wants. This course analyzes the economic reasoning used as consumers, producers, savers, investors, workers, voters, and government agencies make decisions. Key elements of the course include a study of scarcity and economic reasoning, supply and demand, market structures, the role of government, national income determination, money and the role of financial institutions, economic stabilization, and trade. Students will explain that because resources are limited, people must make choices in all aspects of daily life and demonstrate understanding of the role that supply, demand, prices, and profits play in a market economy. Students will examine the functions of government in a market economy and study market structures, including the organization and role of businesses. Students will understand the role of economic performance, money, stabilization policies, and trade of the United States. While the economic way of thinking involves scientific tools and techniques, economics remains a social science, which endeavors to systematically study the behavior of people, institutions, and societies.

CC: \$13.60

UNITED STATES GOVERNMENT (11, 12) 1540

1 Semester

United States Government provides a framework for understanding the purposes, principles, and practices of constitutional representative democracy in the United States of America. Responsible and effective participation by citizens is stressed. Students will understand the nature of citizenship, politics, and government when they understand their rights and responsibilities as citizens and be able to explain how those rights and responsibilities, as citizens are part of local, state, and national government in the United States today. Students examine how the United States Constitution protects individual rights and provides the structures and functions for the various levels of government affecting their lives. Students will also analyze how the United States government interacts with other nations and evaluate the United States' role in world affairs. Students inquire about American government through primary and secondary sources and articulate, evaluate, and defend positions on political issues with sound reasoning and evidence. As a result, students can explain the roles of citizens in the United States and the participation of individuals and groups in government, politics, and civic activities, recognize the need for civic and political engagement of citizens, and exercise rights and responsibilities in order to preserve and improve their civil society and constitutional government.

CC: \$15.15

ETHNIC STUDIES (9,10,11,12) 1516

1 Semester = 1 Credit

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

CC: TBD

INDIANA STUDIES (9,10,11,12) 1518

1 Semester = 1 Credit

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

PREREQUISITE: None, Counts as Elective for all diplomas

CC: TBD

Spanish

SPANISH I (8*, 9, 10, 11, 12) **2120**

2 semesters

During Spanish 1 students will quickly learn how to understand and communicate in basic Spanish. Students learn a large amount of vocabulary through acting, storytelling, games, songs and books. Students also begin learning about the cultures, people and holidays of Spanish speaking countries.

PREREQUISITE: "C-" OR BETTER IN REGULAR ENGLISH

CC: TBD

*Future eighth graders currently enrolled in 7th grade Honors English with a B or above may apply for Spanish 1. Future 8th graders with an A- or above in Regular 7th grade English must receive a recommendation from their current English teacher and be accepted by the World Languages Department. This class will lead to High School credit.

SPANISH II (10, 11, 12) **2122**

2 semesters

Continues the study of Spanish for students who have had one year of High School Spanish. Introduces additional grammatical structures, verb tenses, and vocabulary to further develop speaking, reading, writing and listening skills as well as an appreciation of the cultures of Spanish-speaking countries. It builds upon effective strategies for Spanish language learning by encouraging the use of the language and cultural understanding for self-directed purposes. This course encourages interpersonal communication through speaking and writing, providing opportunities to make and respond to requests and questions in expanded contexts, participate independently in brief conversations on familiar topics, and write cohesive passages with greater independence and using appropriate formats. This course also emphasizes the development of reading and listening comprehension skills, such as using contextual clues to guess meaning and comprehending longer written or oral directions. Students will address the presentational mode by presenting prepared material on a variety of topics, as well as reading aloud to practice appropriate pronunciation and intonation. **PREREQUISITE:** "C" OR BETTER IN REGULAR ENGLISH AND IN SPANISH I

CC:TBD

SPANISH III (11, 12) **2124**

Ivy Tech Dual Credit

2 semesters

Continues the study of Spanish for students who have had one year of High School Spanish. Introduces additional grammatical structures, verb tenses, and vocabulary to further develop speaking, reading, writing and listening skills as well as an appreciation of the cultures of Spanish-speaking countries. It builds upon effective strategies for Spanish language learning by encouraging the use of the language and cultural understanding for self-directed purposes. This course encourages interpersonal communication through speaking and writing, providing opportunities to make and respond to requests and questions in expanded contexts, participate independently in brief conversations on familiar topics, and write cohesive passages with greater independence and using appropriate formats. This course also emphasizes the development of reading and listening comprehension skills, such as using contextual clues to guess meaning and comprehending longer written or oral directions. Students will address the presentational mode by presenting prepared material on a variety of topics, as well as reading aloud to practice appropriate pronunciation and intonation.

PREREQUISITE: "C" OR BETTER IN REGULAR ENGLISH AND IN SPANISH II and Ivy Tech Accuplacer or PSAT scores within acceptable ranges.

CC:

TBD

SPANISH IV (11, 12) **2126**

Ivy Tech Dual Credit

2 semesters

Spanish is the primary language of instruction. The goal of the course is to continue the development and reinforcement of the skills of the target language: listening, speaking, reading and writing at an advanced level. The course continues the study of grammar/syntax and vocabulary building and teaches Spanish and Latin American culture through conversation coordinated with the reading of cultural and literary texts as well as written and oral reports.

PREREQUISITE: "C" OR BETTER IN REGULAR ENGLISH AND IN SPANISH III and Ivy Tech Accuplacer or PSAT scores within acceptable ranges.

NEW
CASTLE
CAREER
CENTER

2018-2019



Program Description Guide

NEW CASTLE CAREER CENTER
Program Description Guide
2018-19

TABLE OF CONTENTS

| | |
|--|----|
| Summary Chart | 3 |
| General Information | 4 |
| Schedule | 4 |
| Locations and Transportation | 4 |
| Pre-Enrollment for a First Year Program | 4 |
| Pre-Enrollment for a Second Year Program | 4 |
| Early College Option | 4 |
| Dual College Credits | 4 |
| Industry Certification | 5 |
| Academic Honors Diplomas & Technical Honors Diplomas | 5 |
| Career Program Descriptions | 6 |
| Advanced Business Management & Accounting | 6 |
| Advanced Manufacturing | 6 |
| Broadcasting I & II | 6 |
| Building Trades I & II | 7 |
| Computer Operations - Computer Tech Support | 7 |
| Computer Operations - Networking Fundamentals | 7 |
| Cosmetology I & II | 8 |
| Culinary Arts I & II | 8 |
| Dental Careers I & II | 9 |
| Early Childhood Education | 9 |
| Education Professions | 9 |
| EMT / Public Safety | 10 |
| Facility Maintenance I & II | 10 |
| Graphic Design I & II | 10 |
| Health Careers | 11 |
| Interdisciplinary Cooperative Education (ICE) | 11 |
| Machine Trades I & II | 11 |
| Pre-Engineering I & II | 11 |
| Strategic Marketing | 12 |
| Veterinary Careers I & II | 12 |
| Welding Technology I & II | 13 |

SUMMARY CHART

The following career programs are offered at New Castle Career Center (NCCC). The number of high school credits offered per school year and the grade level participation for each career program is listed. Detailed descriptions of each career program are included in the CAREER PROGRAM DESCRIPTIONS section of this document.

| New Castle Career Center Course Title | Indiana Dept of Education (DOE) Course # | DOE Course Title | DOE Abbrev | High School Credits | High School Grade Level Participation | | |
|---------------------------------------|--|--|---------------------|---------------------|---------------------------------------|----|----|
| Advanced Business Mgmt Accounting | 5268 & 4524 | Administrative & Office Management (4 hours) Introduction to Accounting (2 hours) | BUS MT FIN & ACCTNG | 6 | | 11 | 12 |
| Advanced MFGT (HIRE) | 5608 | Advanced Manufacturing I | ADV MFTG I | 6 | | | 12 |
| Broadcasting I | 5986 | Radio & Television I | RAD TV I | 6 | | 11 | 12 |
| Broadcasting II | 5992 | Radio & Television II | RAD TV II | 6 | | | 12 |
| Building Trades I | 5580 | Construction Trades I | CONST TECH I | 6 | | 11 | 12 |
| Building Trades II | 5578 | Construction Trades II | CONST TECH I | 6 | | | 12 |
| Computer Tech Support | 5230 | Computer Tech Support | COMP TECH | 6 | | 11 | 12 |
| Networking Fundamentals | 5234 | Networking I | NTWRK FUND | 6 | | 11 | 12 |
| Cosmetology I | 5802 | Cosmetology I | CSMTLGY I | 6 | | 11 | |
| Cosmetology II | 5806 | Cosmetology II | CSMTLGY II | 6 | | | 12 |
| Culinary Arts I | 5440 | Culinary Arts & Hospitality Management I | CULART HOSP | 6 | | 11 | 12 |
| Culinary Arts II | 5346 | Culinary Arts & Hospitality Management II: Culinary Arts | ADV CUL ARTS | 6 | | | 12 |
| Dental Careers I | 5203 | Dental Careers I | DENTCRRS I | 6 | | 11 | |
| Dental Careers II | 5204 | Dental Careers II | DENTCRRS II | 6 | | | 12 |
| Early Childhood Education | 5412 | Early Childhood Education I (<i>Preschool Interns</i>) | ECE I | 6 | | 11 | 12 |
| Education Professions | 5408 | Education Professions I (<i>Teacher Interns</i>) | ED PROF I | 6 | | 11 | 12 |
| EMT / Public Safety | 5210 | Emergency Medical Services | EMS | 6 | | | 12 |
| Facilities Maintenance I | 5593 | Building & Facilities Maintenance I | BF MANT I | 2-6 | 10 | 11 | 12 |
| Facilities Maintenance II | 5594 | Building & Facilities Maintenance II | BF MANT II | 2-6 | | 11 | 12 |
| Graphic Design I | 5550 | Graphic Design & Layout | GRAPH DES LT | 6 | | 11 | 12 |
| Graphic Design II | 5232 | Interactive Media | INT MEDIA | 6 | | | 12 |
| Health Careers | 5286 | Health Science Education II: Special Topics | HSE II ST | 6 | | | 12 |
| Health Careers | 5284 | Health Science Education II: Nursing | HSE II NURS | 6 | | | 12 |
| IRE-Advanced MFGT | 5608 | Advanced Manufacturing I | ADV MFTG I | 6 | | | 12 |
| | 5902 | Interdisciplinary Cooperative Education (<i>ICE</i>) | ICE | 6 | | | 12 |
| Machine Trades I | 5782 | Precision Machining I | PCSN MACH I | 6 | | 11 | 12 |
| Machine Trades II | 5784 | Precision Machining II | PCSN MACH II | 6 | | | 12 |
| Me-Engineering I | 4836 | Mechanical Drafting & Design I | MECH DD I | 6 | | 11 | 12 |
| Me-Engineering II | 4838 | Mechanical Drafting & Design II | MECH DD II | 6 | | | 12 |
| Strategic Marketing | 5918 | Strategic Marketing | STRT MRKT | 6 | | 11 | 12 |
| Veterinary Science I | 5211 | Veterinary Careers I | VET I | 6 | | 11 | 12 |
| Veterinary Science II | 5212 | Veterinary Careers II | VET II | 6 | | | 12 |
| Welding I | 5776 | Welding Technology I | WELD TECH I | 6 | | 11 | 12 |
| Welding II | 5778 | Welding Technology II | WELD TECH II | 6 | | | 12 |

GENERAL INFORMATION

Schedule

All classes meet three (3) hours per day, unless otherwise noted. Students attend either a morning or an afternoon session. The remainder of the school day is scheduled at the home school. Students enroll in career programs for the entire school year.

Locations and Transportation

Most programs are located in New Castle either in the New Castle Career Center wing of New Castle High School or at the Raintree Education Center (REC). The Building Trades program has a construction site in a different location each year. Students enrolled in Strategic Marketing attend the career program at Tri High School, students enrolled in Broadcasting attend at Knightstown Community High School, and students enrolled in Advanced Business Management and Accounting attend at Hagerstown High School. Students in several other programs will complete work experiences during the year at various locations in the area. These sites are coordinated by the career program instructor. Students are responsible for providing their own transportation as necessary.

Pre-Enrollment for a First Year Program

Eight local school corporations work together to offer the courses that make up New Castle Career Center (NCCC). Students from each high school have an equal opportunity to apply for and participate in career programs. Students obtain a pre-enrollment form from their counselor at the designated time, complete the form, and return it to their counselor. Each pre-enrollment form must be approved by the principal, counselor, and career program instructor before the student is enrolled in a career program. All students participate in an interview with the career program instructor prior to acceptance. Credits and grades earned in career programs become part of the student's home school record.

Pre-Enrollment for a Second Year Program

Students will receive the second year pre-enrollment form from their career program instructor. The form must be completed, including parent signature, and returned to the career program instructor. The form will be sent to the home school counselor with the recommendation of the career program instructor regarding second year participation. The form must be approved by the home school counselor and principal. Students may take one year of two complimentary programs rather than two years of a single program. Discuss your career plan with your guidance counselor prior to completing a first year pre-enrollment form for the second year. The student will be given preferred placement, with the recommendation of the counselor.

Early College Option

Seniors participating in career programs may also take advantage of the Early College option offered in partnership between New Castle Career Center and Ivy Tech Community College. Students who meet the requirements at Ivy Tech Community College, including placement testing, are eligible to take core academic courses at Ivy Tech Community College in New Castle. Courses currently include Introduction to Psychology, Introduction to Sociology, Fundamentals of Public Speaking, and English Composition I. The courses are general education courses required for many certificate and degree programs across different colleges. Anatomy and Physiology I and II may be added to the core courses. Classes may change in order to meet the needs of students. With the exception of Anatomy and Physiology, courses offered are part of the Core Transfer Library. Visit transferIN.net to learn more about transferring credits between colleges. The Early College Option is offered at little or no cost to the student. For more information, see your guidance counselor.

Dual College Credits

Many career programs offer dual college credit opportunities. New Castle Career Center has dual credit agreements with Ivy Tech Community College, Vincennes University, and Purdue University. The benefits of dual credits include:

1. Enriches the high school curriculum.
2. Introduces high school students to the rigors of college credit courses.
3. Helps students in the transition from high school to college.
4. Helps ensure the students will graduate from college on time.
5. Helps to satisfy the requirements for the Indiana Core 40 with Academic Honors and/or Technical Honors diplomas.
6. Helps parents and students assess the student's readiness for college.
7. **Significantly reduces the cost of a college education - most dual credits are offered to the student at no cost or at a significantly reduced cost.**

The number of dual credits available and the awarding institution varies by career program. Enrollment is required for all dual credits, and placement testing and/or pre-requisite courses are required for some. Placement testing is completed at NCCC or at the home high schools. Test scores determine dual credit eligibility for those career programs that require placement testing. To receive dual credits, students must successfully complete the work required. Students may be dropped from dual credit eligibility due to insufficient progress in a course. Career program instructors provide guidance on dual credit procedures, and all paperwork is completed through NCCC. In some cases, a fee may apply. The ability to transfer dual credits is dependent upon the receiving institution. Visit transferIN.net to learn more about transferring credits between colleges. Dual credits offered in each career program are subject to change at any time. For the most current information available, contact New Castle Career Center.

Industry Certification

Many career programs offer opportunities for students to earn industry certification. The certification process documents skills obtained by students within a career area. The skills and certification are recognized by employers and provide students with an advantage when going on into the workforce and/or to postsecondary education. The industry certifications available vary by career program. Testing is required for all industry certifications. Students must successfully complete all requirements to receive certification. In some cases, a fee may apply. Industry certifications offered in each career program are subject to change at any time. For the most current information available, contact New Castle Career Center.

Academic & Technical Honors Diplomas

Students who participate in the career programs may be eligible to earn both Academic Honors Diplomas (AHD) and Technical Honors Diplomas (THD), depending on the courses they have successfully completed throughout high school and meeting all other diploma requirements.

For more information on using credits and credentials earned in career programs to meet requirements for Academic and Technical Honors Diplomas, see your guidance counselor or contact New Castle Career Center.

CAREER PROGRAM DESCRIPTIONS

Advanced Business Management & Accounting

1-Year Program

Advanced Business Management prepares students to plan, organize, direct, and control the functions and processes of a firm or organization and to perform business-related operations. Students are provided opportunities to develop attitudes and apply skills and knowledge in the areas of business administration, management, and finance. Individual experiences will be based upon the student's career and educational goals. Accounting 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.

Upon completion of this program, students continue their education in 2 and 4-year degree programs at the postsecondary level as well as enter employment in a variety of business-related fields.

Location: *Hagerstown High School*
Dual College Credits: *BUSN105 – Principles of Management*
ACCT118 – Financial Concepts for Accounting

QR: **Advanced Business Management & Accounting** satisfies the "Mathematics or quantitative reasoning course" in each year of high school requirement for the CORE 40, AHD, and THD diplomas.

Advanced Manufacturing 1 (CONEXUS HIRE)

1-Year Program – Seniors Only

Advanced Manufacturing I is a course that includes classroom and laboratory experiences in two broad areas: Industrial Technology/Software Controls and Manufacturing Trends. Industrial Technology and Software Controls covers wiring and schematic diagrams used to design, install, and repair electrical/electronic equipment such as wireless communication devices, programmable controllers. Course content will include basic theories of electricity, electronics, digital technology, and basic circuit analysis. Activities include experiences in: soldering; use of an oscilloscope, meters, signal generators and tracers; bread boarding; circuit simulation software; and troubleshooting. Understanding and using the underlying scientific principles related to electricity, electronics, circuits, sine waves, and Ohm's Law are integral to this course. Manufacturing Trends covers basic concepts in manufacturing operations and plant floor layout in the production environment. Applications of Computer Numerical Control (CNC), and lathe and turning operations are developed as a foundation for machining operations. Coordinate system concepts are introduced as relevant to machining processes, as well as fluid and mechanical power, welding, and lean manufacturing. Fluid power concepts will include hydraulic components and circuits, laws and principles, fluid power controllers, and the construction of systems. In the mechanical power portion of the course, students will learn about machine specifications, basic forces, friction, simple machines, motors, and motor controls. Students will also be introduced to lean manufacturing where they will study concepts including: lean goals, product quality, eliminating waste, cost effectiveness, lean concepts, resource planning, continuous improvement, and the various advantages of lean manufacturing. This course includes MSSC concepts required to earn MSSC certification.

Location: *New Castle Career Center*
Dual College Credits: *IvyT111 – Student Success in University Transfer*
MPRO100 – Introduction to Plant floor and CNC
MPRO106 – Introduction to the Workplace and Safety

Broadcasting I & II

1 or 2-Year Program

Broadcasting provides students experience in the areas of radio announcing, writing, news, sports, production, recording studio engineering, and music programming on the award-winning student station, Classic Hits 90.7 FM, WKPW. Daily duties include on-air shifts, hourly news and sportscasts production, and weekly production assignments. Year 2 students are assigned more complex, independent projects and are expected to fill lead on-air roles.

Upon completion of this program, students continue their education in 2 and 4-year degree programs at the postsecondary level as well as enter employment in the communications field at radio stations, TV stations, and production companies.

Location: *Knightstown Community High School*
Dual College Credits: *MDIA120 – Audio Production I*

Building Trades I & II

1 or 2-Year Program

Building Trades provides experiences related to residential home construction and commercial renovation. Students learn basic techniques in framing and rough carpentry, siding and roofing, door and window installation, wiring, drywall hanging and finishing, flooring installations, and finish carpentry. Students are also introduced to concrete/foundation work, heating/cooling, and plumbing. In year 2, students are assigned more complex, independent projects and lead work teams. All aspects of safety are stressed, and students are required to complete online OSHA 10-hour Construction Industry certification. Students are expected to work on scaffolding and on roof levels as well as outside in various weather conditions.

Upon completion of this program, students continue their education in 2 and 4-year degree programs at the postsecondary level or enter employment in one of the many construction fields. Students also enter apprenticeship programs for specific construction trades.

Location: *New Castle Career Center & current construction site*
Industry Certifications: *OSHA Safety certification*
Dual College Credits: *BCT1100 – Intro to Construction Technology*
BCT1101 – Intro to Carpentry, Part I
BCT1102 – Intro to Carpentry, Part II
BCT1130 – Intro to Electrical

Computer Operations – Computer Tech Support

1-Year Program

Computer Tech Support allows students to explore how computers work. Students learn the functionality of hardware and software components as well as suggested best practices in maintenance and safety issues. Lab work includes the diagnosis and repair of computers and components for outside clients. High-performing students may have the opportunity to complete internships with local companies. Students entering this program are expected to have significant computer knowledge. This program can be combined with Computer Operations – Networking Fundamentals to create a 2-year experience.

Upon graduation, students continue their education at the postsecondary level in both 2 and 4-year degree programs related to computer and information technology. Others may gain employment in local computer technology and support businesses.

Location: *New Castle Career Center*
Industry Certifications: *Microsoft Technology Associate (MTA)*
Dual College Credits: *INFM109-S2 Informatics Fundamentals*

Computer Operations – Networking Fundamentals

1-Year Program

Networking Fundamentals students learn the skills needed to successfully move into a role as an IT professional supporting networked computers. Concepts covered include TCP/IP client administration, planning a network topology, configuring the TCP/IP protocol, managing network clients, configuring routers and hubs, and creating wireless LANs. High-performing students may have the opportunity to complete internships with local companies. Students entering this program are expected to have significant computer knowledge. This program can be combined with Computer Operations – Computer Tech Support to create a 2-year experience.

Upon graduation, students continue their education at the postsecondary level in both 2 and 4-year degree programs related to computer and information technology. Others may gain employment in local computer technology and support businesses.

Location: *New Castle Career Center*
Industry Certifications: *Microsoft Technology Associate (MTA)*
Dual College Credits: *INFM105-S2 Hardware/Software Support*

Cosmetology

2-Year Program – must initially enroll as a Junior and continue as a Senior

Students complete a 1500-hour apprenticeship program identified by the Indiana Cosmetology Licensing Board and are prepared to take the state licensing examination. Students must attend Cosmetology I and II to accumulate the hours required, and students must be 18 years old to take the examination. Specific classroom lessons and lab activities are required to meet the licensing requirements. Students demonstrate proficiency in cutting hair, styling, giving perms, shampooing, coloring hair, providing skin and scalp care, conducting business management, providing good customer relations, and performing other skills required for licensing.

Due to State Board requirements, students must attend class four (4) hours per day totaling 20 hours per week. Students must attend a two-week extended session to complete the required apprenticeship hours. 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 and work their way through college.

Location: *New Castle Career Center*
Dual College Credits: *COSM100 – Cosmetology I*
COSM150 – Cosmetology II
COSM200 – Cosmetology III
COSM250 – Cosmetology IV
Industry Certification: *Indiana State Board of Cosmetology License*

Culinary Arts I & II

1 or 2-Year Program

A variety of opportunities and experiences are used to expose students to the areas of culinary arts and hospitality management. Students gain experience in food safety and personal hygiene; sanitation and safety; regulations, procedures, and emergencies; basic culinary skills; culinary math; food preparation techniques; menu planning; food cost; use of tools and equipment; and serving. In year 2, students are assigned more complex, independent projects and lead work teams. Students showcase their skills when preparing and serving food for events and functions throughout the school year.

Students completing this program may continue their education in 2 and 4-year postsecondary degree programs or gain employment in a variety of food service occupations.

Location: *New Castle Career Center*
Dual College Credits: *HOSP101 – Sanitation and First Aid*
HOSP102 – Basic Food Theory & Skills
HOSP104 – Nutrition
HOSP105 – Introduction to Baking
Industry Certification: *ServSafe Certification*
CPR
Culinary Arts Certification (Pre-PAC)

Dental Careers I & II

2-Year Program – must initially enroll as a Junior and continue as a Senior

The Dental Careers program provides students with opportunities to learn skills needed when assisting dentists with chair-side procedures and daily office responsibilities. Students must complete both Dental Careers I and II in order to cover the curriculum and standards. Junior students enroll in Dental Careers I with the intention of completing both years. Due to space limitations, senior students are generally not accepted in the Dental Careers I program. Areas of instruction include tooth identification and terminology, disinfection/sterilization, oral health, dental materials, instrumentation, office records, digital x-rays, radiation safety, hygiene, office management software, and OSHA guidelines. Dental Careers I and II students complete clinical experiences in local dental offices. Students participate in the second year of the program to receive advanced training in expanded dental assisting and additional experience in private practices. Once students complete 2 years of Dental Careers and 2 years of work experience, they are eligible to test for their CDA (Certified Dental Assistant).

Students completing this program may pursue 2 and 4-year postsecondary degrees related to the dental field or may become employed in dentist offices or dental labs.

Location: *New Castle Career Center*

Dual College Credits: *IVYT101 – First Year Seminar
HSHL101 – Medical Terminology*

Industry Certification: *Indiana Radiology Provisional License*

Early Childhood Education (Preschool Interns)

1-Year Program

Early Childhood Education prepares students for employment in early childhood education and related services and provides the foundations for study in postsecondary education that leads to other child-related careers. The program covers planning and guiding developmentally appropriate activities for young children, guidance and discipline practices, basic health and safety principals, and an overview of the management and operation of licensed child care facilities. Preschool Interns take turns teaching the “Shining Stars” Preschool in the classroom. Students also gain experiences in one or more child care/preschool lab sites. This program can be combined with Education Professions to create a 2-year experience.

Students completing this program continue their education in 2 and 4-year postsecondary programs or begin a career as an assistant in a pre-school or as a school aide.

Location: *New Castle Career Center & local education sites*

Dual College Credits: *ECED101 – Health, Safety & Nutrition
ECED100 – Intro to Early Childhood Education*

Industry Certification: *Early Childhood Education Pre-PAC*

Education Professions (Teacher Interns)

1-Year Program

Education Professions provides opportunities to explore careers in elementary school education and provides a foundation for study in postsecondary education that leads to teaching and related careers. The program includes planning, writing, and implementing developmentally appropriate lesson plans; completing classroom observations; applying INTASC standards; applying safety and ethical principles when working with children; investigating licensing requirements related to careers in education; and enhancing employability skills related to knowledge and dispositions of elementary teachers. Teacher Interns are placed in an elementary school at their preferred grade level, when possible, by their career program instructor. This program can be combined with Early Childhood Education to create a 2-year experience.

Students completing this program continue their education in 2 and 4-year postsecondary programs to be eligible for a teaching license or begin a career as a teacher aide in a school.

Location: *New Castle Career Center & local education sites*
Dual College Credits: *EDUC101 – Intro to Teaching*
Industry Certification: *Education Fundamentals*

EMT / Public Safety

1-Year Program – Seniors Only

The EMT / Public Safety program exposes students to the areas of law enforcement, firefighting, corrections, and probation and prepares students to become EMTs (Emergency Medical Technicians). EMT certification is recognized in a variety of public safety related careers and required in firefighting. The exposure to a variety of areas will help students discover the career area they want to pursue.

During the first semester, students will complete the EMT training. Students will learn to recognize the seriousness of the patient's condition, use the appropriate emergency care techniques and equipment to stabilize the patient, and transport them to the hospital. This course also addresses the handling of victims of hazardous materials accidents. It covers theories, techniques, and operational aspects of pre-hospital emergency care with the scope and responsibility of the basic emergency medical technician. It requires laboratory practice and clinical observation in a hospital emergency room and ambulance. Students will spend the second semester rotating among different career areas, including law enforcement, firefighting, corrections, and probation. Experiences will include job shadowing professionals in the field. Some of the experiences will require students to participate during the evenings and on weekends. Students will be required to pass a criminal history check.

Location: *REC (Raintree Education Center) and other clinical sites*
Industry Certification: *IN Department of Homeland Security EMT License*

Facility Maintenance I & II

Multiple Year Program

Students perform routine care and maintenance activities in commercial and institutional buildings. Activities include classroom and laboratory experiences concerned with all phases of the care and cleaning of buildings, fixtures, and furnishings, including all types of building interiors such as linoleum, plastic, terrazzo, tile, and wood floors; rugs; and plastic, wood panel, paint and synthetic wall coverings. Emphasis is placed on the selection and use of professional supplies needed for care and maintenance as well as OSHA safety standards and appropriate guidelines when working with various chemicals and processes.

Students completing this program may pursue careers in professional cleaning, housekeeping, and janitorial maintenance.

Location: *New Castle Career Center*

Graphic Design I & II

1 or 2-Year Program

Graphic Design students plan, analyze, and create visual solutions to a variety of real world communication challenges. They combine imagery and visual text to effectively deliver messages for a variety of purposes, including advertising, displays, promotional materials, and instructional manuals. They are able to create strong page layout compositions using the foundation principles of design, color theory, and typography. Students gain experience in Adobe Creative Suite 6 industry standard software, including InDesign, Illustrator, and Photoshop. Second-year students have the opportunity to work on advanced projects with advanced software, including Flash and After Effects. Second-year students also work on completing their portfolios for presentation to postsecondary institutions and employers. Students entering this program are expected to have significant computer knowledge.

Students completing this program may pursue 2 and 4-year postsecondary degrees related to graphic design or they may pursue employment opportunities in a variety of graphic communications careers.

Location: *New Castle Career Center*

Industry Certification: *Adobe Illustrator*
Adobe Publisher

Health Careers – AM & PM

1-Year Program – Seniors Only

Students spend time in the classroom as well as participating in clinical rotations at various health care facilities in the community. Clinical experiences vary depending on the student's career goal and training site availability. They include several areas of nursing, imaging, laboratory, physical therapy, nuclear medicine, respiratory therapy, physical therapy, dietary, mortuary science, pharmacy, and medical records. Classroom instruction includes human anatomy and physiology, medical terminology, ethics, CPR, and practical skills applicable to all health-related occupations.

Students completing this program usually continue their education in 2 or 4-year postsecondary degree programs or special medical licensing programs at the postsecondary level.

Location: *REC (Raintree Education Center), Henry County Hospital, & clinical sites*

Dual College Credits: *HLHS100 – Intro to Health Careers*
HLHS107 – CAN Preparation
HLHS101 – Medical Terminology
HLHS111 – Health & Wellness for Life

Industry Certification: *CPR/AED Professional Rescuer*
Indiana State CNA
Pharmacy Technician
NCHSE

Interdisciplinary Cooperative Education (ICE)

1-Year Program – Seniors Only

The Interdisciplinary Cooperative Education (ICE) Program provides students an opportunity to learn career related skills through on-the-job training with a local employer. The ICE program is made up of two components. The related class meets up to 3 hours per week, and the work experience is 15 or more hours per week. Some class work may be completed online. Work experiences take place during school time as well as after school hours. Work experiences are related to a student's career interests. Students attend their home school for one-half day to complete graduation requirements.

Students completing this program may remain at the businesses where they have gained work experience through the program, move on to other employment, and/or continue their education at the postsecondary level in 2 or 4-year degree programs.

Location: *New Castle Career Center & local work site*

Dual College Credits: *IVYT111 – First Year Seminar*

Machine Trades I & II

1 or 2-Year Program

Students in the machining program prepare for in-demand jobs in the manufacturing industry. The Machine Trades program provides instruction and laboratory experience in standard and manual machining, blueprint reading, formulas to determine the proper speed and feed of machines, and the operation and maintenance of common machines, including mills, lathes, and grinders. The program also provides exposure to computer numerical controlled (CNC) machining. New Castle Career Center works with an industry advisory committee and Ivy Tech Community College to provide a curriculum focused on skills needed in industry.

Students completing this program generally continue their education at the postsecondary level in 2 and 4-year degree programs or begin their careers in local machining businesses. Students also enter apprenticeship programs for specific machining-related trades.

Location: *New Castle Career Center*

Dual College Credits: *MTTC101 – Machine Tool Technology*

MTTC102 – Turning Processes I
MTTC103 – Precision Machining Technology
MTTC106 - Machine Tool Technology
IVYT111 – Student Success in University Transfer
MTTC105 – Abrasive Processes I
MTTC107 - CNC Set Up & Operations
MTTC208 – CNC Mill Programming
MTTC209 – CNC Lathe Programming

QR: **Machine Trades I and II** satisfies the “Mathematics or quantitative reasoning course” in each year of high school requirement for the CORE 40, AHD, and THD diplomas.

Pre-Engineering I & II

1 or 2-Year Program

Pre-Engineering students learn engineering principles through project-based learning. A significant amount of time is spent identifying and solving industrial design and function issues. Students use state of the art software to solve real world problems and communicate solutions to hands-on projects and activities which include building design, robotics, CNC machining, and automated manufacturing. Students choose to specialize in aerospace, robotics, motor sports, architecture, or a variety of other areas, and student teams compete in contests designed as culminating activities where they perform specific tasks and complete problem-solving exercises.

Students completing this program continue their education in 2 and 4-year engineering and technology degree programs at the postsecondary level.

Location: *New Castle Career Center*

Dual College Credits: *DESN101 – Intro to Technology
DESN113 – Computer Aided Design
DESN104 – Mechanical Graphics*

Industry Certification: *Autodesk Inventor*

QR: **Pre-Engineering II** satisfies the “Mathematics or quantitative reasoning course” in each year of high school requirement for the CORE 40, AHD, and THD diplomas.

Strategic Marketing

1-Year Program

Strategic Marketing provides an introduction to the scope and importance of marketing in a global economy. Projects are focused on sports and entertainment marketing. Emphasis is placed on oral and written communication, mathematical applications, problem solving, and critical thinking skills as they relate to advertising/promotion/selling, distribution, financing, marketing information management, pricing, and product/service management. Students will study the basic principles of consumer behavior and examine the application of theories from psychology, sociology, and economics. The relationship between consumer behavior and marketing activities will also be studied.

Students completing this program as juniors may enroll in other career programs as seniors that compliment the skills learned. This program can be combined with the Advanced Business Management and Accounting program to create a 2-year experience. Seniors completing the program may go directly into the workforce in a variety of related careers or continue their education at the postsecondary level in 2 or 4-year degree programs.

Location: *Tri High School*

Dual College Credits: *BUSN101 – Intro to Business
MKTG101 – Principles of Marketing*

Veterinary Careers I & II

1 or 2-Year Program

Students are provided skills and experience in the veterinary field through classroom work, an on-site lab, job-shadowing, and internships. Experiences can be tailored from small to large animal interests. The on-site lab provides grooming services to the public as well as a vaccination clinic twice a year. Curriculum includes basic animal care, veterinary/medical terminology, anatomy and physiology, lab techniques and procedures, nutrition, grooming techniques, CPR and first aid, and practical skills applicable to the industry. Classroom visits by those in the industry and off-site exploration add to the educational experience. The number of second year students accepted depends on the number of clinical sites available. In addition to classroom work, second-year students complete internships at local animal care sites and earn clinical hours required for certification.

Students completing the program usually continue their education in 2 and 4-year programs in veterinary technology or other related careers. Completing this program has met the university requirement of documenting one year of experience caring for animals required to enter veterinary medicine programs.

Location: *New Castle Career Center*

Dual College Credits: *AGR103 – Animal Science*
AGR107 – Advanced Animal Science
HIMT110 – Medical Terminology

Industry Certification: *Veterinary Assistant Certification*

Welding Technology I & II

1 or 2-Year Program

Students develop skills in the basic welding areas including shielded metal (SMAW), gas metal arc (GMAW or MIG), gas tungsten arc (TIG), oxy-fuel, fuel cutting manual, and semi-automatic. Projects and welding exercises are utilized to teach students how to weld various kinds of metals in 4 basic welding positions - flat, vertical, horizontal, and overhead. Classroom instruction includes blueprint reading, metallurgy, theory of the various types of welding, and machine setup and use. Students apply the various welding techniques to design and construct projects. Students in year 2 are able to complete additional AWS certifications and intern at local companies.

Upon completion of this program, students pursue 2 and 4-year postsecondary degrees such as welding technology and welding engineering. Students also enter employment in construction and fabrication businesses and enter apprenticeships that identify welding as a related career.

Location: *New Castle Career Center*

Dual College Credits: *WELD100 – Welding Technology I*
WELD108 – Shielded Metal Arc Welding I
WELD206 – Adv. Shielded Metal Arc Weld II
WELD203 – Pipe Welding I
IVYT111 – Student Success in University Transfer
WELD207 – Gas Metal Arc Welding
WELD208 – Gas Tungsten Arc Welding
WELD210 – Welding Fabrication I
WELD272 – Adv Gas Metal Arc Weld II
WELD273 – Adv Gas Tungsten Arc Welding II

Industry Certification: *American Welding Society Sense Level I Certification*