

*Rushville
Consolidated
High School*



2024—2025 CAREER PLANNER



Rushville Consolidated High School

Administrative Staff

Mr. Warren Cook, Principal

Mrs. Elizabeth Meek, Assistant Principal

Mr. Collin McCartt, Assistant Principal

Guidance Staff

Ms. Natalie Hornsby, Guidance Director

Counseling all students grades 9-12, names beginning A—K

Mrs. Jan Thoman, Counselor

Counseling all students grades 9-12, names beginning L—Z

Ms. Hannah Augsburger, At-Risk Counselor

Assisting all students grades 9-12

Mr. Kyle Morgan, At-Risk Counselor

Assisting all students grades 9-12

Mission Statement

**Rushville Consolidated High School strives for excellence in academics,
wellness, technology, and social behavior.**



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The RCHS Career Planner contains only a *summary* of courses and their descriptions.



Recommended Courses / Course Levels/ Admission Testing & Criteria

College Recommended Courses

There are certain courses that four-year colleges recommend students take in high school. Listed below are recommended courses for college-bound students. Each college has its own set of admission requirements. You are encouraged to research admission requirements by checking online with the college or university that you would like to attend. These courses generally include:

4 years of English	3 years of social studies
3 years of math, including Algebra I, Geometry, and Algebra II	3 years of science
2 years of World Languages	

Students are required to take seven classes each semester. A total of forty-four (44) credits are required for graduation.

Permission for a student to discontinue any subject at any time must be granted by an administrator, counselor and the teacher.

Credit classification: Sophomore - 8 credits Junior - 20 credits Senior - 34 credits

Course Levels Defined

H (Honors): The academic standard should be appropriate to the student who seeks a more rigorous curriculum. This process will begin in the 9th grade and develop through the 12th grade.

AP/ACP (Advanced Placement/Advanced College Placement): Students may earn college credit. College-level work is expected. ACP credit may be earned.

Dual Credit: Students earn high school credit as well as college credit if dual credit qualifications are met. ***Students are responsible for all additional post secondary fees including text book fees, etc.***

Career and College Testing Available at RCHS

PSAT / NMSQT (Preliminary Scholastic Assessment Test/National Merit Scholarship Qualifying Test): A practice for the SAT as well as the test used to determine National Merit Scholarship Qualification. The PSAT is given each October.

ASVAB: An aptitude test given by the Armed Forces to help predict future occupational and career success. If a student scores 31 or higher, they complete box 3 of the post-secondary competency for the Graduation Pathways. Students and parents must complete the Intent to Enlist Form in order to use the ASVAB for a graduation pathway.

SAT: A college entrance examination, generally taken during the junior and/or senior year. Students receive a Critical Reading, Math, and Writing score. The SAT is given in October and May each year at RCHS.

ACT College Readiness Assessment: A college entrance examination, generally taken during the junior and/or senior year. Students receive scores in English, Reading, Math, and Science Reasoning, as well as a composite score.



Graduation Pathways—Requirements beginning with the class of 2023

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

These recommendations seek to ensure that every Hoosier student graduates from high school with:

- 1) A broad awareness of and engagement with individual career interests and associated career options
- 2) A strong foundation of academic and technical skills
- 3) Demonstrable employability skills that lead directly to meaningful opportunities for postsecondary education, training, and gainful employment. Students must satisfy all three of the following Graduation Pathway Requirements by completing one of the associated Pathway Options:

Graduation Requirements

1) High School Diploma

2) Learn and Demonstrate Employability Skills

(Students must complete at least one of the following.)

3) Postsecondary-Ready Competencies

(Students must complete at least one of the following.)

Graduation Pathway Options

Meet the statutorily defined diploma credit and curricular requirements.

Learn employability skills standards through locally developed programs. Employability skills are demonstrated by one of the following:

- **Project-Based Learning Experience**
- **Service-Based Learning Experience**
- **Work-Based Learning Experience**

- **Honors Diploma:** Fulfill all requirements of either the Academic or Technical Honors diploma
- **ACT:** College-ready benchmarks
- **SAT:** College-ready benchmarks
- **ASVAB:** Earn at least a minimum AFQT score to qualify for placement into one of the branches of the US military. Requires an Intent to Enlist Form
- **State—and Industry-recognized Credential or Certification**
- **Federally-recognized Apprenticeship**
- **Career-Technical Education Concentrator:** Must earn a C average or higher in at least two non-duplicative advanced courses within a particular program.
- **AP/IB/Dual Credit/Cambridge International courses or CLEP Exams:** Must earn a C average or higher in at least three courses
- **Locally created pathway** that meets the framework from and earns the approval of the State Board of Education.

RCHS Graduation Pathways Parent Checklist

Student Name _____ Pathways Completed _____ Graduation Date _____

1) Indiana Diploma Designation

- General
- Core 40
- Academic Honors
- Technical Honors

2) Employability Skills

- Project-Based Learning Experience
- Service-Based Learning Experience
- Work-Based Learning Experience

Summary: _____

Validation:

- Student Work Product
- School validation

3) Postsecondary-Ready Competencies

- Academic or Technical Honors Diploma Designation
- ACT: Eng: _____ (18)* Reading: _____ (22)*
Math: _____ (22)* Science: _____ (23)*
- SAT: ERW: _____ (480)* Math: _____ (530)*
- ASVAB: AFQT Score: _____ (31)*
- State- and Industry-recognized Credential or Certification: _____
- Career-Technical Education Concentrator Pathway:

Course _____ Grade _____

Course _____ Grade _____

Average Grade _____ (must be C or above)

**AP/Dual Credit courses:

Course/Exam: _____ Grade _____

Course/Exam: _____ Grade _____

Course/Exam: _____ Grade _____

Average Grade _____ (must be C or above)

**College-ready benchmarks set by the ACT and College Board for the 2017-18 school year. These scores are fluid and subject to change.*

***If using AP/Dual Credit, either: 1 of the 3 courses must be in core content area OR all 3 must be part of a defined curricular sequence.*

Quick Reference

Diploma Requirements Met:	Yes	No	
Employability Skills Demonstrated:	Yes	No	
Postsecondary-Readiness Met:	Yes	No	
Postsecondary-Readiness Waiver Criteria Met:	Yes	No	NA

Graduation Pathways Completed: **Yes** **No**



Rushville Consolidated High School Employability Skills Verification Form

Student Name _____ Date _____ Grad. Cohort _____

Project Based Experience	Service Based Experience	Work Based Experience

Describe how you have met the Employability Skills Requirement:

Describe how you have learned and demonstrated the following Employability Skills. (See back of page for reference.)

Mindsets:

Self-Management Skills:

Learning Strategies:

Social Skills:

Workplace Skills:



Indiana WORKFORCE Development Indiana's Employability Skills Benchmarks

MINDSETS

Intellectual Risk Taking—Develops a healthy balance of mental, social/emotional and physical well-being; understands that life-long learning are necessary for long-term career success; willingness to work and learn and continually apply new knowledge

Appreciation of Diversity—Embraces diverse views and varying perspectives; demonstrates empathy and respect for others

Self-confidence—Possesses belief in own ability to succeed

Sense of belonging—Demonstrates a sense of belonging in the job environment; demonstrates commitment to an organization

Career Path—Relates interest aptitude and abilities to appropriate in-demand occupations in order to select career path

SELF-MANAGEMENT SKILLS

Pride in Work—Assumes responsibility, takes personal ownership of performance quality; understands short-comings and sets goals to improve

Self-discipline—Demonstrates self-discipline and self-control

Independence—Works independently; creates relationships with mentors and supervisors that support success

Perseverance—Delays immediate gratification for long-term rewards; demonstrates endurance, follow-through and capacity to complete tasks

Stress Management—Overcomes barriers to learning in the workplace; demonstrates effective coping skills when faced with a problem; performs under pressure and achieve deadlines

Time Management—Prioritizes and balances school, home, work and community activities

Adaptability—Manages transitions and adapts to changing situations and responsibilities

Integrity—Trustworthy, honest and comprehends ethical courses of action

Professionalism—Uses appropriate judgement; demonstrates empathy and respect for others, demonstrates social maturity and behaviors appropriate to the situation and environment; dresses appropriately, speaks politely

Work Ethic—Punctual with good attendance; does not abuse drugs; maintains appropriate hygiene and attire; demonstrates ethical decision-making and social responsibility

LEARNING STRATEGIES

Written Communication—Applies reading, writing, math and scientific principals and procedures

Decision Making—Utilizes critical thinking skills to make informed decisions based on options, rewards, risks, limits and goals

Initiative—Applies self-motivation and self-direction to learning

Technology Savvy—Applies existing and emerging media and computer application skills

Attention to Detail—Demonstrates high-quality work by reviewing the detailed aspects of work process and end products or service

Organization—Plans and organizes long and short term academic, career and social/emotional goals; balances all types of workplace and personal situations

Information Gathering—Observes and gathers evidence and considers multiple perspectives to make informed decisions; located, organizes, analyzes and communicates information

Problem Solving—Applies critical thinking skills to complex problems; evaluates causes, problems, patterns or issues and explores workable and innovative solutions to improve situations

SOCIAL SKILLS

Oral Communication—Clearly, effectively and convincingly expressed ideas and messages to others

Teamwork—Creates positive and responsive relationships with peers, colleagues and customers; uses effective collaboration and cooperation skills

Leadership—Guides, supports and encourages groups of diverse teams; sharing knowledge and skills when possible

Conflict Management—negotiates to resolve or mediate conflict; avoids potential or perceived conflict

Self-Advocacy—Asserts self when necessary

WORKPLACE SKILLS

Personal Safety—Demonstrates personal safety skills

Follow Directions—Follows employer established policies and business practices

Resource Allocation—Identifies, leverages and distributes money and materials effectively and efficiently

Customer Service—Responds quickly to the needs of customers and achieves customer satisfaction

Adapted by the following: ASCA Mindsets and Behaviors Program Planning Tool; National Network of Business and Industry Associations Common Employability Skills; US DOE Employability Skills Framework; WIN and JAG Competencies Alignment and the Center for Employability Outcomes Workplace Essentials.

RCHS Graduation Pathways

Next Level Career Pathways/Programs of Study*

Cluster	Career Pathway	School	DOE Code	Principles— Level I	DOE Code	CTE Concentrator A — Level I	DOE Code	CTE Concentrator B— Level I
Advanced Manufacturing	Precision Machining Technology	WCC	7109	Principles of Precision Machining	7105	Precision Machining Fundamentals	7107	Advanced Precision Machining
Advanced Manufacturing	Welding Technology	WCC	7110	Principles of Welding Technology	7111	Shielded Metal Arc Welding	7101	Gas Welding Processes
Architecture and Construction	Construction Technology	WCC	7130	Principles of Construction Trades	7123	Construction Trades: General Carpentry	7122	Construction Trades: Framing and Finishing
Arts, AV Tech and Communication	Graphic Design	WCC	7140	Principles of Digital Design	7141	Digital Design Graphics	7138	Interactive Media Design
Transportation, Distribution, and Logistics	Automotive Collision Technology	WCC	7215	Principles of Collision Repair	7204	Automotive Body Repair	7206	Plastic Body Repair and Painting Fundamentals
Transportation, Distribution, and Logistics	Automotive Technology	WCC	7213	Principles of Automotive Services	7205	Brake Systems	7212	Steering and Suspensions
Transportation, Distribution, and Logistics	Diesel Technology	WCC	7216	Principles of Diesel Technology	7210	Diesel Steering and Brakes	7211	Diesel Transmissions
Law, Public Safety, Correction, and Security	Criminal Justice	WCC	7193	Principles of Criminal Justice	7191	Law Enforcement Fundamentals	7188	Corrections and Cultural Awareness
Health Sciences	Health Science	WCC	7168	Principles of Healthcare	5274	Medical Terminology	7156	Technical Skills Development
Hospitality and Tourism	Culinary Arts	WCC	7173	Principles of Culinary Arts and Hospitality	7171	Nutrition	7169	Culinary Arts
Human Services	Cosmetology	WCC	7330	Principles of Barbering and Cosmetology	7331	Barbering and Cosmetology Fundamentals	7332	Advanced Cosmetology
Education and Training	Education Careers	WCC	7161	Principles of Teaching	7157	Child and Adolescent Development	7162	Teaching and Learning
Architecture and Construction	Electricity	WCC	7130	Principles of Construction Trades	7124	Electrical Fundamentals	7119	Advanced Electrical

***ALL CLASSES OFFERED ARE SUBJECT TO CHANGE**

RCHS Graduation Pathways

Next Level Career Pathways/Programs of Study*

Cluster	Career Pathway	School	DOE Code	Principles— Level I	DOE Code	CTE Concentrator A— Level I	DOE Code	CTE Concentrator B— Level I
Marketing	Marketing and Sales	RCHS	4562	Principle of Business Management	5914	Marketing Fundamentals	5918	Strategic Marketing—NLPS
Business Management and Administration	Business Operations and Technology	RCHS	7153	Principles of Business Operations and Tech.	7144	Business Office Communications	7146	Digital Data Applications
Finance	Accounting	RCHS	4562	Principles of Business Management	4524	Accounting Fundamentals	4522	Advanced Accounting
Arts, AV Tech and Communication	Digital Design	RCHS	7140	Principles of Digital Design	7141	Digital Design Graphics	7138	Interactive Media Design
Health Sciences	Biomedical Sciences and Technology	RCHS	5218	Principles of Biomedical Sciences	5216	Human Body Systems	5217	Medical Intervention
Agriculture, Food and Natural Resources	Agri-Science Plants or Animals (combined Animal, Plant, and Feed Products)	RCHS	7117	Principles of Agriculture	5008	Animal Science	5070 5074	Advanced Life Science, Animals Advanced Life Science, Plants and Soils (L) - NLPS
Agriculture Food and Natural Resources	Horticulture	RCHS	7117	Principles of Agriculture	5132	Horticultural Science	7114	Greenhouse and Soilless Production
Architecture and Construction	Building and Facilities Maintenance	RCHS	7130	Principles of Construction Trades	7285	Building and Facilities Maintenance	7286	Advanced Building and Facilities Maintenance

Locally Created Pathways*

Cluster	Pathway Program Study	School	Max Credits	Required Courses
Civic Arts	Art	RCHS	1	Principles of Business
			1	Introduction to 2-Dimensional Art
			1	Introduction to 3-Dimensional Art
			1	Ceramics I
			1	Ceramics II
			4	Drawing and Painting 1, 2, 3, & 4
	Band	RCHS	1	Principles of Business
			2	Beginning Concert Band
			2	Intermediate Concert Band
			4	Advanced Concert Band
	Chorus	RCHS	1	Principles of Business
			2	Beginning Concert Chorus
			2	Intermediate Concert Chorus
			4	Advanced Concert Chorus

* MUST EARN SIX CREDITS PER PATHWAY TO QUALIFY.



Indiana Core 40 Requirements

Course and Credit Requirements

English/Language Arts

8 Credits

Including a balance of literature, composition and speech.

Mathematics

6 Credits (in grades 9-12)

2 credits: Algebra I
2 credits: Geometry
2 credits: Algebra II

Or complete Integrated Math I, II, and III for 6 credits. Students must take a math or quantitative reasoning course each year in high school.

Science

6 Credits

2 credits: Biology I
2 credits: Chemistry I or Physics I or Integrated Chemistry-Physics
2 credits: Any Core 40 science course

Social Studies

6 Credits

2 credits: U.S. History
1 credit: U.S. Government
1 credit: Economics
2 credits: World History/Civilization or Geography/History of the World

Directed Electives

5 Credits

World Languages
Fine Arts
Career and Technical Education

Physical Education

2 credits

Health and Wellness

1 credit

Electives*

6 credits
(College and Career Pathway courses recommended)

40 Total State Credits Required

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

*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.



Core 40 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 different languages)
- Earn 2 Core 40 fine arts credits (art, band, choir, theater production)
- Earn a grade of a “C” or better in courses that will count toward the diploma
- Have an overall 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 college credits in dual credit courses from the approved dual credit list
 - C. Earn two of the following:
 1. A minimum of 3 verifiable 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 with a minimum score of 560 on the math and 590 on the evidence based reading and writing section..
 - E. Earn an ACT composite score of 26 or higher and complete written section
 - F. Earn 4 credits in IB courses and take corresponding IB exams

*** Rushville Consolidated High School requires: 6 credits in English to be at the Honors level; 4 credits in Social Studies to be at the Honors level; and 2 credits in Science to be at the Honors level.**

Core 40 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 and Career Pathway and one of the following:
 - A. Pathway designated industry-based certification or credential, or
 - B. 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 minimum scores on WorkKeys, Workplace Documents, Level 6; Applied Math, Level 6; and Graphic Literacy, Level 5***
 - C. Earn the following minimum score(s) on Accuplacer: Writing 80, Reading 90, Math 75
 - D. Earn the following minimum score(s) on Compass: Algebra 66, Writing 70, Reading 80



Dual Credit Courses

Introduction

Rushville Consolidated High School offers high school-based dual credit courses through universities and colleges in Indiana. Students earn college and high school credit through these courses. ***Students are responsible for all additional post-secondary fees.***

RCHS Course	University Dual Credit Course Title	College Credit
Principles to Agriculture	AGRI 100 Principles of Agriculture—Ivy Tech	3 credits
Ag Power, Structure and Technology I	AGRI 106 Agriculture Mechanization—Ivy Tech College	3 credits
Horticulture Science	AGRI 116 Survey of Horticulture—Ivy Tech College	3 credits
Greenhouse and Soilless Production	AGRI 129 Greenhouse and Soilless Production—Ivy Tech College	3 credits
Animal Science	AGRI 103 Animal Science—Ivy Tech College	3 credits
Agribusiness Management	AGRI 102 Ag Business & Farm Management—Ivy Tech College	3 credits
Advanced Life Science, Animals	AGRI 107 Advanced Animal Science—Ivy Tech College	3 credits
Natural Resources	AGRI 115 Natural Resource Management—Ivy Tech College	3 credits
Advanced Life Science, Plant and Soil	AGRI 109 Advanced Plant and Soil—Ivy Tech College	3 credits
Accounting Fundamentals	ACCT 100 Basic College Accounting—Vincennes University	3 credits
Advanced Speech and Communication	P155 Public Speaking—Indiana University	3 credits
English Composition	W131 Reading, Writing, and Inquiry—Indiana University	3 credits
Literary Interpretation	L202 Literary Interpretation—Indiana University	3 credits
Spanish III—I	SPAN 101 (Spanish Level One) - Ivy Tech College	4 credits
Spanish III—II	SPAN 102 (Spanish Level Two) - Ivy Tech College	4 credits
Spanish IV—I	SPAN 201 (Spanish Level Three) - Ivy Tech College	3 credits
Spanish IV—II	SPAN 202 (Spanish Level Four) - Ivy Tech College	3 credits
Quantitative Reasoning	MATH 123 Quantitative Reasoning—Ivy Tech College	3 credits
Finite Mathematics	MATH 135 Finite Mathematics—Ivy Tech College	3 credits
Pre-Calculus: Algebra/Trigonometry	MATH 136 College Algebra (Pre Calculus—1st sem.) - Ivy Tech	3 credits
Pre-Calculus: Algebra/Trigonometry	MATH 137 Trigonometry with Analytic Geometry (2nd sem.)—Ivy Tech	3 credits
Calculus	MATH 211 Calculus I—Ivy Tech College	4 credits
Biology II	BIOL 101 Introductory Biology—Ivy Tech College	3 credits
United States History I	HIST 139 American History I—Vincennes University	3 credits
United States History II	HIST 140 American History II—Vincennes University	3 credits
Education	EDUC—F200—Indiana University	3 credits

Whitewater Career Center (WCC) - To view dual credit offerings log on to: whitwatercareercenter.org

Indiana General High School Diploma

The completion of Core 40 is an Indiana graduation requirement. Indiana's Core 40 curriculum provides the academic foundation all students need to succeed in college and the workforce.

To graduate with less than Core 40, the following formal opt-out process must be completed:

- The student, the students' parent/guardian, and the student's counselor (or another staff member who assists students in course selection) must meet to discuss the student's progress.
- The student's Graduation Plan (including four year course plan) is reviewed.
- The student's parent/guardian determines whether the student will achieve greater educational benefits by completing the general curriculum or the Core 40 curriculum.
- If the decision is made to opt-out of Core 40, the student is required to complete the course and credit requirements for a general diploma and the career/academic sequence the student will pursue is determined.

Course and Credit Requirements

English/Language Arts

8 Credits

Credits must include literature, composition and speech

Mathematics

4 Credits

2 credits: Algebra I or Integrated Mathematics I

2 credits: Any math course

General diploma students are required to earn 2 credits in a Math or a Quantitative Reasoning (QR) course during their junior or senior year. QR courses do not count as math credits.

Science

4 Credits

2 credits: Biology I

2 credits: Any science course

At least one credit must be from a Physical Science or Earth and Space Science course

Social Studies

4 Credits

2 credits: U.S. History

1 credit: U. S. Government

1 credit: Any social studies course

Physical Education

2 Credits

Health and Wellness

1 Credit

College and Career Pathway Courses
Selecting electives in a deliberate manner to take full advantage of college and career exploration and preparation opportunities

6 Credits

Flex Credit

5 Credits

Flex Credits must come from one of the following:

- Additional elective courses in a College and Career Pathway
- Courses involving workplace learning such as Cooperative Education or Internship courses
- High School/college dual credit courses
- Additional courses in Language Arts, Social Studies, Mathematics, Science, World Languages or Fine Arts

Electives

6 Credits

Specifies the minimum number of electives required by the state. High school schedules provide time for many more elective credits during the high school years.

40 Total Credits Required

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

Courses by Department

AGRICULTURAL SCIENCES and TECHNOLOGY

Principles of Agriculture is required as a prerequisite for all Ag classes.

Principles of Agriculture, Dual Credit	
AGRI 100 Principles of Agriculture.....	9 10 11 12
Horticulture Science, Dual Credit*	
AGRI 116 Survey of Horticulture	
*Freshman may take course if Principles of Agriculture was completed at BRMS.....	9 10 11 12
Agriculture Power, Structure and Technology I Dual Credit—AGRI 106 Ag Mechanization	10 11 12
Greenhouse & Soilless Production, Dual Credit	
AGRI 129 Greenhouse and Soilless Production (Offered in odd years)	10 11 12
Animal Science Dual Credit	
AGRI 103 Animal Science.....	9 10 11 12
Agribusiness Management, Dual Credit	
AGRI 102 Agri-Business and Farm Management (Offered in even years).....	10 11 12
Advanced Life Science, Animals, Dual Credit	
AGRI 107 Advanced Animal Science (Offered in odd years, second semester)	10 11 12
Natural Resources, Dual Credit	
AGRI 115 Natural Resource Management (Offered in even years).....	10 11 12
Advanced Life Science, Plant and Soil, Dual Credit	
AGRI 109 Advanced Plant and Soil (Offered second semester in even years).....	10 11 12
Supervised Agricultural Experience (SAE) (Offered in odd years)	
(Independent Study—offered in even years)..	11 12

ART

Introduction to 2-Dimensional Art.....	9 10 11 12
Drawing and Painting I-II.....	10 11 12
Drawing and Painting III-IV.....	10 11 12
Drawing and Painting V-VI.....	10 11 12
Ceramics I.....	10 11 12
Ceramics II.....	11 12
Introduction to 3-Dimensional Art.....	10 11 12
Intermediate 3D Art.....	10 11 12
Advanced 3-Dimensional Art.....	10 11 12

FAMILY and CONSUMER SCIENCE

Advanced Nutrition and Foods I.....	9 10 11 12
Advanced Nutrition and Foods II.....	12
Advanced Child Development I.....	10 11 12
Advanced Child Development II.....	10 11 12

BUSINESS EDUCATION

Principles of Business Operations and Technology	9 10 11 12
Accounting Fundamentals, Dual Credit	
ACCT 100 Basic College Accounting	10 11 12
Advanced Accounting.....	11 12
Introduction to Computer Science.....	9 10 11
Marketing Fundamentals	10 11 12
Principles of Business Management.....	9 10 11 12
Business Math	12
Personal Finance and Banking.....	10 11 12
Strategic Marketing.....	12
Business Office Communications (Offered in even years).....	10 11 12
Digital Data Applications (Offered in odd years).....	10 11 12

COMMUNICATION

Speech.....	9 10 11 12
Adv. Speech and Communication, Dual Credit	
P155 Public Speaking.....	12
Principles of Digital Design, Dual Credit	
VISC 101 Design Fundamentals.....	9 10 11 12
Digital Design Graphics, Dual Credit	
VISC 102 Raster Graphics I.....	10 11 12
Interactive Media Design, Dual Credit	
VISC 105 Video and Sound.....	10 11 12
Digital Design Capstone, Dual Credit	
VIDST 210 Production Editing I.....	11 12
Theatre Production	10 11 12
Student Publications	10 11 12

LANGUAGE ARTS

English 9.....	9
English 9 Honors	9
English 10.....	10
English 10 Honors	10
English 11.....	11
English 11 Honors	11
English 11 AP	11 12
English 12.....	12
English Composition, Dual Credit	
W131 Reading, Writing, and Inquiry	12
Literary Interpretation, Dual Credit	
L202 Literary Interpretation	12
Themes in Literature.....	10 11 12
Poetry	10 11 12
Etymology.....	10 11 12
Creative Writing	10 11 12
Film Literature.....	10 11 12

Courses by Department

MATHEMATICS

Algebra I.....	9 10 11 12
Algebra I Honors	9 10 11 12
Geometry	10 11 12
Geometry Honors.....	9 10 11 12
Algebra II.....	10 11 12
Algebra II Honors	10 11 12
Pre-Calculus: Algebra/Trigonometry	11 12
Calculus, Dual Credit	
Math 118 Calculus with Analytical Geometry (through Vincennes University)	12
Finite Mathematics, Dual Credit	
Math 118 Finite Mathematics (through Ivy Tech College)	11 12
Quantitative Reasoning, Dual Credit	
Math 123 Quantitative Reasoning (through Ivy Tech College).....	11 12

MULTIDISCIPLINARY

Community Service	12
Cadet Teaching.....	12
Cooperative Education (formerly ICE).....	12

MUSIC

Beginning Concert Band	9
Intermediate Concert Band	10
Advanced Concert Band	11 12
Jazz Ensemble.....	10 11 12
Beginning Chorus (Women's).....	9
Beginning Chorus (Men's).....	9
Intermediate Chorus (Women's).....	10
Intermediate Chorus (Men's).....	10
Advanced Chorus (Women's).....	11 12
Advanced Chorus (Men's).....	11 12

PHYSICAL EDUCATION and HEALTH

Health Education.....	9
Current Health Issues	10 11 12
Advanced Health Education (APC)*	
*Freshman may take APC if PE I has previously been completed in summer school.....	9 10 11 12
Physical Education I (Semester 1)	9
Physical Education II (Semester 2)	9
Advanced Physical Conditioning (APC)	10 11 12
Team Sports.....	10 11 12

VOCATIONAL

Whitewater Career Center (WCC).....	11 12
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SCIENCE

Biology I.....	9
Biology I Honors	9
Earth/Space Science	10 11 12
Integrated Physics/Chemistry	10 11 12
Chemistry Honors	10 11 12
Physics I Honors.....	11 12
PLTW Principles of Biomedical Sciences	9 10 11 12
PLTW Human Body Systems	
Offered in even years.....	10 11 12
PLTW Medical Interventions	
Offered in odd years	10 11 12
Biology II, Dual Credit	
BIO 101 Introduction to Biology (through Ivy Tech College).....	11 12

SOCIAL STUDIES

Geography and History of the World.....	10 11 12
World History and Civilization Honors.....	10 11 12
United States History Honors.....	11
United States History I, Dual Credit (1st semester)	
HIST 139 American History I (through Vincennes University).....	11
United States History II, Dual Credit (2nd semester)	
HIST 140 American History II (through Vincennes University).....	11
United States History	11
Economics	12
Economics Honors.....	12
United States Government.....	12
United States Government Honors	12
Ethnic Studies.....	9 10 11 12
Indiana Studies	9 10 11 12

WORLD LANGUAGES

Spanish I.....	9 10 11 12
Spanish II.....	10 11 12
Spanish III.....	11 12
Spanish III—I and Spanish III—II, Dual Credit	
SPAN 101 (Spanish Level One) (through Ivy Tech College)	
SPAN 103 (Spanish Level Two) (through Ivy Tech College).....	11 12
Spanish IV	11 12
Spanish IV—I and Spanish IV—II, Dual Credit	
SPAN 201 (Spanish Level Three) (through Ivy Tech College)	
SPAN 203 (Spanish Level Four) (through Ivy Tech College).....	11 12



ART

2201—2202 INTRODUCTION to 2-DIMENSIONAL ART

Grades 9-12, 1 credit

Prerequisite: None

Students will study art history, art criticism, aesthetics, and focus primarily on art production. Emphasis is placed upon developing students' drawing and painting skills and strengthening perceptual awareness. Students will explore various drawing and painting materials (marker, pen/ink, graphite, watercolor, colored pencil, pastel, oil pastel, and acrylic), techniques and subjects. Google slide presentations, videos and text will accompany and reinforce specified units of study. Students are required to purchase a fine tip and an extra-fine tip marker for the course at the bookstore.

2221—2222 DRAWING and PAINTING I-II

Grades 10-12, 1 credit each

Prerequisite: Introduction to 2-Dimensional Art

This course provides further exploration into study of art history, art criticism, and aesthetics. Students will continue to expand and reinforce their knowledge of 2D media, techniques, and theories; as well as, added study of the elements and principles of art. Google slide presentations, videos and text will accompany and reinforce specified units of study. Students are required to purchase supplies for the course at the bookstore.

2241—2242 DRAWING and PAINTING III-IV

Grades 10-12, 1 credit each

Prerequisite: Drawing and Painting I-II

This course offers a far more extensive study of art history, art criticism, printmaking, scratchboard and aesthetics. Also, an emphasis on advanced techniques in oil, acrylic, watercolor, collage, pastel, pen/ink, graphite, and colored pencil is specified. Students are expected to have a proficient understanding of the elements and principles of art that will lead to the creation of portfolio quality works. Google slide presentations, videos and text will accompany and reinforce specified units of study. Students are required to purchase supplies for the course at the bookstore.

2261—2262 DRAWING and PAINTING V-VI

Grades 10-12, 1 credit each

Prerequisite: Drawing and Painting III-IV

For the experienced art student, the advanced study in art history, art criticism, aesthetics, and media will be covered. The importance of broadening skills, developing creativity, studio production, portfolio development, and time management, identifying their strengths and limitations will be stressed. Students exhibit use of the elements and principles of art, analyzing and criticizing their own work, work of their peers, and of artists and art styles. Google slide presentations, videos and text will reinforce specified units of study. Students are required to purchase supplies for the course at the bookstore.

2271 CERAMICS I

Grades 10-12, 1-2 credits—Offered first semester only

Prerequisite: Introduction to 2-Dimensional Art and Introduction to 3-Dimensional Art

This course teaches students advanced techniques in ceramics. Hand building techniques and eight weeks of work on the potter's wheel will be rotated through the semester. This course is demanding, including high standards for workmanship and creativity. Students will learn glazing, coiling, slab building, slumping, and wheel throwing techniques.



2273 CERAMICS II

Grades 11-12, 1 credit—Offered first semester only

Prerequisite: Ceramics I

Recommendation: Teacher recommendation

This course includes more advanced techniques than in Ceramics I. The student will be expected to know the basics of wheel throwing before entering this class. In addition, students will be performing more advanced wheel throwing techniques along with combinations of hand-building, glazing and sculptural techniques. This course is demanding, requiring high standards of workmanship and creativity. Students are required to exercise self-discipline, allowing each student to work independently.

2211—2212 INTRODUCTION to 3-DIMENSIONAL ART

Grades 10-12, 1 credit

Prerequisite: None

This course offers an introduction to three-dimensional art. Google slide presentations and videos will be used for art history and art appreciation. Projects will be completed in ceramics, jewelry, papier mache metal, cardboard, and textiles. All lessons are on Google Classroom.

2213-2214 INTERMEDIATE 3-DIMENSIONAL ART

Grades 10-12, 1 credit

Prerequisite: Introduction to 3D Art

Students will use more advanced sculpture techniques in this course using materials of paper, cardboard, wire, jewelry, and ceramics. As an intermediate class, students will begin participating in more formal critique settings, giving feedback to the peers on their work. They will also begin documenting more of the process of making their art. Students will become more comfortable with presenting their artwork and talking about art using art vocabulary.

2253—2254 ADVANCED 3-DIMENSIONAL ART

Grades 10-12, 1-2 credits

Prerequisite: Permission of instructor

Recommendation: Students with above-average interest and ability

During the course, an extensive range of art areas is offered. Each nine weeks, students will complete three projects, written critiques, and maintain a folder. Students are required to exercise quality work, self-discipline, and maintain a grade average of “C” or better. Art history and criticism will be taught using Google Classroom.

BUSINESS EDUCATION

7153 PRINCIPLES of BUSINESS OPERATIONS and TECHNOLOGY

Grades 9-12, 2 credits, 2 semesters required,

Prerequisites: None

Counts as a directed elective or elective for all diplomas

The Principles of Business Operations and Technology course will prepare students to plan, organize, direct, and control the functions and processes of a firm or organization and be successful in a work environment. Students are provided opportunities to develop attitudes and apply skills and knowledge in the areas of business, management, Microsoft Office, and finance. Individual experiences will be based upon the student’s career and educational goals.



4524 ACCOUNTING FUNDAMENTALS—a dual credit course ACCT 100 Basic College Accounting

Grades 10-12, 2 credits, 2 semesters required

Prerequisite: Principles of Business Management

After completing this course, students will understand basic accounting concepts and how they are applied to common business transactions in keeping financial records. Students study accounting in relation to sole proprietorships and corporations. This dual credit class is offered through Vincennes University.

Note: Students will be responsible for all additional post-secondary fees.

4522 ADVANCED ACCOUNTING

Grades 11-12, 2 credits, 2 semesters required

Prerequisite: a "C" average or above in Accounting Fundamentals, Principles of Business Management

This course advances concepts and procedures presented in Accounting. The focus of this year is on corporate accounting.

4803 INTRODUCTION to COMPUTER SCIENCE

Grades 9-11, 1 semester, 1 credit

Prerequisite: None

This course provides an entry point into computer science. Students will learn the skills and processes needed to develop computer artifacts and basic coding. Data, security and intellectual property will also be explored.

5914 MARKETING FUNDAMENTALS

Grades 10-12, 2 credits, 2 semesters required

Prerequisite: Principles of Business Management

This course provides an instruction to the scope and importance of marketing in the global economy and prepares the student for college marketing courses. Emphasis is placed on oral and written communications, problem solving, and critical thinking skills as they relate to advertising, promotion, placement, distribution, financing, marketing-information management, pricing and product/service management.

4562 PRINCIPLES of BUSINESS MANAGEMENT

Grades 9-12, 2 credits, 2 semesters required

Prerequisite: None

This class 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

4512 BUSINESS MATH

Grades 12, 1-2 credits

Prerequisite: Algebra I

Recommendation: This course does not meet Core 40 mathematical requirements, but qualifies for a Core 40 general elective. It may count as a math credit for the general diploma.

This business course will use real life situations to solve/analyze business and personal financial problems. Areas of study will include cash management, taxes, earnings on savings and investments, payroll records, financial statements, purchases, sales, financial planning, budgeting, insurance, credit management and decision making skills for the consumer. May fulfill up to 2 graduation credits of the minimum math requirement for a standard diploma.



7150 PERSONAL FINANCE and BANKING

Grades 10-12, 2 credits, 2 semesters required

Prerequisites: Principles of Business Management

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

5918 STRATEGIC MARKETING

Grade 11-12, 2 credits, 2 semesters required

Prerequisite: Principles of Business Management and Marketing Fundamentals

Course counts as a Directed Elective or Elective for all diplomas.

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

7144 BUSINESS OFFICE COMMUNICATIONS

Grades 10-12, 2 credits, 2 semesters required. Offered in odd years.

Prerequisites: Principles of Business Operations and Technology

Counts as a directed elective or elective for all diplomas

The Business Office Communication course emphasizes the analysis of communication to direct the choice of oral and written methods and techniques. It includes practice in writing a variety of messages used to communicate in business and industry with an emphasis on the potential impact of the message on the receiver as a basis for planning and delivering effective business communications. Through projects and the development of messages students will develop their knowledge and skill for the use of Microsoft Word and Microsoft PowerPoint.

7146 DIGITAL DATA APPLICATIONS

Grades: 10-12, 2 credits, 2 semesters required. Offered in even years.

Prerequisite: Principles of Business Operations and Technology

Students will use Microsoft Excel to sort and search records, combine files, produce reports, and to extract data from a file.

This course is designed to include creating and formatting worksheets, using formulas and basic functions, creating charts, and printing professional-looking reports. Additionally students will use Microsoft Access to create a database and to manage a database through the creation and modification of a query. Students will also be expected to produce reports from the information.



COMMUNICATION

2101 SPEECH

Grades 9-12, 1 credit

Recommendation: Open to all students, especially students wishing to enroll in broadcasting and/or theater arts, or to participate on the RCHS speech team.

Students will develop skills in public speaking, oral/interpersonal communication, group presentation, and interview techniques. Students must deliver various types of oral and multi-media presentations with a specific focus on demonstration, informative, persuasive and impromptu speaking. This class is beneficial to all students looking to pursue any degree beyond high school. This credit may replace one semester of senior English for graduation. **Refusal to deliver any speech will result in no credit.**

2111 ADVANCED SPEECH AND COMMUNICATION—dual credit P155 Public Speaking through Indiana University

Grade 12, 1 credit (Students earn 1 high school credit and *may* earn 3 hours of college credit.) This course can be taken for dual credit through Indiana University. A GPA of 2.7 or above is required. Students are also expected to pay course fees associated with the university.

Prerequisite: None

Recommendation: Speech

This course provides a study of communications media, limited to broadcast radio and television; a focus of internet audio and video; development of reading, writing, and speaking skills; and their own radio and television productions. An introduction to iMovie, Final Cut Pro, and adobe Audition 3.0 editing is also offered. Emphasis on careers in radio and television, as well as the history and impact of media on society, are a few academic segments this course reviews. Then available, a series of lectures per semester are provided by graduates working professionally in the broadcast field.

7140 PRINCIPLES OF DIGITAL DESIGN—dual credit VISC 101 Design Fundamentals

Grades 9-12, 2 credits, 2 semesters required

Prerequisites: None

Principles of Digital Design introduces students to fundamental design theory. Investigations into design theory and color dynamics will provide experiences in applying design theory, ideas and creative problem solving, critical peer evaluation, and presentation skills. Students will have the opportunity to apply the design theory through an understanding of basic photographic theory and technique. Topics will include image capture, processing, various output methods, and light.

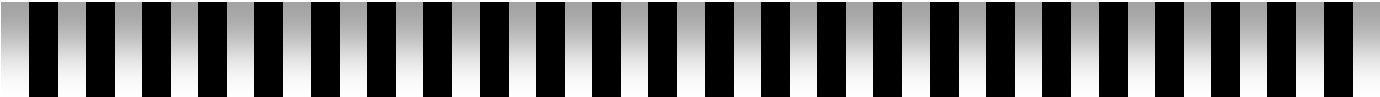
Note: Students will be responsible for all addition post-secondary fees.

7141 DIGITAL DESIGN GRAPHICS—dual credit VISC 102 Raster Graphics I

Grades 10-12, 2 credits, 2 semesters required

Prerequisites: Principles of Digital Design

Digital Design Graphics will help students to understand and create the most common types of computer graphics used in visual communications. Skills are developed through work with professional vector-based and page layout software used in the industry. Additionally, students will be introduced to a full range of image input technology and manipulation including conventional photography, digital imaging, and computer scanners. Students will learn to communicate concepts and ideas through various imaging devices. **Note: Students will be responsible for all additional post-secondary fees.**



7138 INTERACTIVE MEDIA DESIGN—dual credit VISC 105 Video and Sound

Grades 10-12m 2 credits, 2 semesters required

Prerequisites: Principles of Digital Design and Digital Design Graphics

Recommendation: This course produces the daily *Lion's Live* show and the online radio station *The Roar*.

Application and instructor permission only.

Interactive Media Design focuses on the tools, strategies, and techniques for interactive design and emerging technologies, like web and social media. Students will learn the basics of planning, shooting, editing and post-producing video and sound. Additionally, students will explore the process of integrating text, graphics, audio and video for effective communication of information. **Note: Students will be responsible for all additional post-secondary fees.**

7246 DIGITAL DESIGN CAPSTONE—dual credit VIDT 210 Production Editing I

Grades 11-12, 2 credits, 2 semesters required

Prerequisites: Principles of Digital Design, Digital Design Graphics, and Interactive Media Design

Recommendation: This course produces the daily *Lion's Live* show and the online radio station *The Roar* and is reserved for second year students of the program. **Instructor permission only.**

The Digital Design Capstone course provides students the opportunity to dive deeper into advanced concepts of Visual Communication including user experience/user interface design, video production editing, animation and/or web design. Depending on the length of the course, students may focus their efforts on one area or explore multiple aspects.

Note: Students will be responsible for all additional post-secondary fees.

2142 THEATER PRODUCTION

Grades 10-12, 1 credit—A one semester course offered second semester only.

Prerequisite: Speech and permission of instructor. Applications and auditions are required.

Recommendation: Permission of instructor and/or counselor

Students enrolled in this course take on responsibilities associated with rehearsing and presenting a theatre production. They read and analyze a play to prepare for production; conceive and realize a design for a production, including set, lighting, sound and costumes; rehearse and perform roles in a production; and direct and serve as assistant director for a production.

2155 STUDENT PUBLICATIONS

Grades 10-12, 2 credits, 2 semesters required

Prerequisite: Staff will be chosen through an application and interview process.

Recommendation: 2.0/"C" average in English

This course provides an introduction to journalistic, photographic, and layout techniques used in production of the high school yearbook and newspaper. Since the *Holcad* and *Rushlite* are entirely computer generated, students develop basic, intermediate, and advanced skills on design software associated with their publication, which may include Indesign, Adobe Photoshop, and Microsoft Word. Each student is responsible for selling advertisements to the community, creating the annual *Holcad* and multiple issues of the *Rushlite*, as well as maintaining the business related to these publications. Emphasis is placed on meeting deadlines, developing layout and copy, writing, and editing.



LANGUAGE ARTS

2405 ENGLISH 9

Grade 9, 2 credits, 2 semesters required

This course is a continued study of English language arts, including focuses on reading, writing, grammar and mechanics, speaking, and listening. Material will be presented with a focus on skills indicated by Indiana Academic Standards and English/Language Arts Common Core. This curriculum incorporates classic and contemporary literature.

2411 ENGLISH 9 Honors

Grade 9, 2 credits, 2 semesters required

Prerequisite: None

Composition, literature, vocabulary and grammar are presented at an advanced level. The curriculum includes classic world literature, short stories, nonfiction selections, novels and poetry. Although more content based, the skills indicated by Indiana Academic Standards and English/Language Arts Common Core are addressed in this class.

2421 ENGLISH 10

Grade 10, 2 credits, 2 semesters required

Prerequisite: English 9

This course is a continued study of English language arts. Instruction focuses on reading, writing, grammar and mechanics, speaking, listening. Material will be presented with a focus on skills indicated by Indiana Academic Standards and English/Language Arts Common Core. Students will be eligible to take the Language Arts ECA test to fulfill graduation requirements.

2425 ENGLISH 10 Honors

Grade 10, 2 credits, 2 semesters required

Prerequisite: 3.0/B or above grade average in English 9 or teacher recommendation

Composition, literature, vocabulary, and grammar are presented at an advanced level. The curriculum includes classic world literature, short stories, nonfiction selections, novels and poetry. Students will be eligible to take the Language Arts ECA test to fulfill graduation requirements.

2435 ENGLISH 11

Grade 11, 2 credits, 2 semesters required

Prerequisite: English 10

A study of English language arts, this course focuses on reading, writing, grammar and mechanics, speaking, and listening. Material will focus on skills indicated by Indiana Academic Standards and English/Language Arts Common Core. This course incorporates classic and contemporary American literature. A research paper or project is required for second semester credit.

2441 ENGLISH 11 Honors

Grade 11, 2 credits, 2 semesters required

Prerequisite: 3.0/B or above grade average in English 10 Honors or teacher recommendation

Recommendation: Students seeking preparation for post-secondary education

This advanced course is designed to meet the needs of students wishing to continue their education after high school. The curriculum includes composition, literature, vocabulary, and grammar. Focus is on the study of classic American literature and eras of American literature through the reading of short stories, nonfiction selections, novels, and poetry. The skills indicated by Indiana American Standards and English/Language Arts Common Core are addressed in this class with emphasis on reading and writing skills used at the college level. A research paper or project is required for the second semester credit.



2445 ENGLISH 11 AP

Grades 11-12, 2 credits, 2 semesters required

Prerequisite: 3.0/B or above grade average in English 10 Honors and/or approval of counselor or teacher

Recommendation: Students seeking preparation for post-secondary education

This course focuses on the reading of American literature and intensive writing preparing students for the AP Language/Composition exam and includes the research paper or project. Students should have good grammar skills and be able to handle more complex reading and writing assignments. Several novels and nonfiction works will be read, and writing emphasis is on rhetorical analysis, synthesis, and argument. Students work to improve diction and syntax. It is possible to earn college credit with a qualifying score on the AP exam. Course grade is weighted for GPA.

2451 ENGLISH 12

Grade 12, 2 credits, 2 semesters required

Prerequisite: English 11

Recommendation: Students seeking a general education

This course is a continued study of English language arts. Instruction focuses on reading, writing, grammar and mechanics, speaking, and listening. Material will be presented with a focus on skills indicated by Indiana Academic Standards and English/Language Arts Common Core. This curriculum incorporates classic and contemporary literature.

2481 ENGLISH COMPOSITION—a dual credit course—W131 Reading, Writing, and Inquiry

Grade 12, 1 credit—Offered first semester only

Prerequisite: Three years of high school English (preferably Honors/AP). Indiana University requires is a 2.7 GPA.

This dual credit course with Indiana University prepares students for college writing. Following the course outline from Indiana University, the focus of the course is on analytical reading and writing. Skills include evaluating sources of information, summarizing sources, adopting a thoughtful position, advancing a clear thesis, and supporting one's views with evidence.

Note: Students will be responsible for all additional post-secondary fees.

2482 LITERARY INTERPRETATION—a dual credit course—L202 Literary Interpretation

Grade 12, 1 credit—Offered second semester only

Prerequisite: L202 students must have successfully completed IU W131 with a C– or better

This dual credit course with Indiana University enables students to become familiar with the basic elements of literature, especially those distinctly characteristic of poetry, short fiction, the novel, and drama. Students will become familiar with the basic elements of arguing about literature, compare literary works with one another and will grow aware of the multiple contexts in which a literary work may be placed and develop critical skills essential to participation in the interpretive process. This class introduces the premises and motives of literary analysis and critical methods associated with historical, generic, and/or cultural concerns. **Note: Students will be responsible for all additional post-secondary fees.**

465 THEMES in LITERATURE

Grades 10–12, 1 credit—Offered first semester only.

Prerequisite: English 9

Recommendation: Students interested in history, politics, social revolution, music, war, etc.

Presented through the turbulent lens of the 1960s, this course is designed for students to examine many universal themes, especially the search for individual, cultural, and national identity. We will explore through literature, film, and music the multitude of issues that exploded (both figuratively and literally) in the 1960s.



2479 POETRY

Grades 10-12, 1 credit—Offered one semester

Prerequisite: None

Recommendation: English 9, English 10, or teacher recommendation

This is a study of interpretation of poetry, and the variety of structures, devices, and themes that differentiate one type of poetry from another. Students examine a wide variety of major poetic works and analyze the impact of aural devices, such as meter, alliteration, assonance, and rhyme, on the overall interpretation of a poem and how poetry is a form of literary expression that has prevailed through the ages. This course can be offered in conjunction with a composition course. This course fulfills an English/Language Arts requirement for all diplomas.

2477—2478 ETYMOLOGY

Grades 10-12, 1 credit. May count toward the Academic Honors Diploma.

Recommendation: Any student preparing for the SAT/ACT and post-secondary education

Wilfred Funk states, "Success and vocabulary go hand in hand. This has been proven so often that it no longer admits of argument." This class develops vocabulary by studying Latin and Greek roots, prefixes, and suffixes.

2487 CREATIVE WRITING

Grades 10-12, 1 credit—Offered first semester only.

Prerequisite: English 9, English 10, or teacher recommendation

This course is a study and application of the rhetorical writing strategies for prose and poetry. Using the writing process, students demonstrate a command of vocabulary, the nuances of language and vocabulary, English language conventions, an awareness of the audience, the purposes for writing, and the style of their own writing. Note: Students are strongly encouraged to combine this course with a literature course that they take before, concurrently, or after the course.

2468 FILM LITERATURE

Grades 10-12, 1 credit—Offered second semester only.

Prerequisite: English 9, English 10, or teacher recommendation

This course is a study of how literature is adapted for film or media and includes role playing as film directors for selected screen scenes. Students read about the history of film, the reflection or influence of film on the culture, and issues of interpretation, production and adaptation. Note: Students are strongly encouraged to combine this course with a composition course that they take before, concurrently, or after the course.

FAMILY and CONSUMER SCIENCE

2613 ADVANCED NUTRITION and FOODS I

Grade 9-12, 1 credit—Offered first or second semester

Prerequisite: None

Advanced Nutrition and Foods I is a course that addresses more complex concepts in nutrition and foods. This course is recommended for all students who want to improve their nutrition and learn how nutrition affects the body across the life span. Topics include: Nutrition principles, influences on nutrition and wellness, science and technology in food, and rigorous food laboratory experiences.



2662 ADVANCED NUTRITION and FOODS II

Grade 12, 1 credit—Offered first or second semester

Prerequisite: Advanced Nutrition and Foods I

Recommendation: Students with interest in exotic foods

Advanced Nutrition and Foods 2 is designed to assist students in learning more about foods of various regions in the United States and foreign countries. Classes explore ways cultures and customs influence food and nutrition of individual and families

2665 ADVANCED CHILD DEVELOPMENT I

Grades 10-12, 1 credit—Offered first semester only

Recommendation: Open to all students

This course addresses planning and preparing for parenthood, a healthy family life, understanding human sexuality, problems with unplanned pregnancy and birth defects. Child development also investigates prenatal care, a healthy pregnancy for mother, development of the fetus, childbirth and the newborn's development through infancy. The course offers the Baby-Think-It-Over simulation or alternative project. This course is relevant for students interested in careers that draw on knowledge of children, child development, and nurturing of children.

2666 ADVANCED CHILD DEVELOPMENT II

Grades 10-12, 1 credit—Offered second semester only

Prerequisite: Child Development and Parenting

Recommendation: Open to all students

This course addresses the growth and development of the child from the toddler stage through the early school years. The focus is on nurturing and parenting skills that support positive development in children. This course is relevant for students interested in careers that draw on knowledge of children, child development, and nurturing of children.

WORLD LANGUAGES

2501 SPANISH I

Grades 9-12, 1-2 credits

Prerequisite: C or above grade average in English

Recommendation: Academic class open to all students.

This course offers students a working knowledge of basic vocabulary, sentence structure, verb tenses, and proper Spanish pronunciation. Listening and speaking skills are emphasized.

2511 SPANISH II

Grades 10-12, 1-2 credits

Prerequisite: C or above grade average in Spanish I and English

Recommendation: College-bound students or those continuing the study of Spanish.

This course offers students a review of vocabulary and verb tenses of first year Spanish plus the introduction of new related materials. Second semester includes an in-depth study of the Spanish language. Listening and speaking skills are emphasized.



2515 SPANISH III

Grades 11-12, 1-2 credits

Prerequisite: 2.0/C or above grade average in Spanish II

Recommendation: College bound students or those continuing the study of Spanish.

Students continue the skills learned in Spanish II and complete projects. Use of Spanish is stressed throughout activities.

2517 SPANISH III—I and SPANISH III—II—dual credit courses SPAN 101 (Spanish Level One) and SPAN 102 (Spanish Level Two)

Grades 11-12, 1 high school credit per semester, *may* earn 4 college credit hours per semester.

Prerequisite: 2.0/C or above grade average in Spanish II

Recommendation: College-bound students or those continuing the study of Spanish

A dual credit course for students who wish to earn dual credit through Ivy Tech College in Spanish 101 and Spanish 103.

Note: Students will be responsible for all additional post-secondary fees.

2521 SPANISH IV

Grades 11-12, 1-2 credits

Prerequisite: C or above grade average in Spanish III plus teacher recommendation.

Recommendation: Teacher permission. College-bound students with a sincere interest in the Spanish language.

Students planning a career in Spanish.

Students continue to refine communication, comprehension, and speaking skills developed in Spanish III. Instruction will also provide the student with opportunities to study Hispanic literature and composition.

2523—2524 SPANISH IV—I and SPANISH IV—II dual credit courses SPAN 201 (Spanish Level Three) and SPAN 202 (Spanish Level Four)

Grades 11-12, 1 high school credit per semester, *may* earn 3 college credit hours per semester.

Prerequisite: Spanish I and II (RCHS) and SPAN 101 and 102 (Ivy Tech College) with a C average or above. Student must be able to work independently.

Recommendation: College bound students or those continuing the study of Spanish. Spanish reading is emphasized.

Designed to prepare the student for college work, this class includes additional assignments and essays.

Note: Students are responsible for all additional post-secondary fees.

MATHEMATICS

2863 ALGEBRA I

Grades 9-12, 2 credits, 2 semesters required

Prerequisite: None

Recommendation: Required for all students. Required for all diplomas.

Topics include real numbers and expressions; functions; linear equations, inequalities, and functions; systems of equations and inequalities; quadratic and exponential equations and functions; polynomials, factoring, and simplifying rational expressions; data analysis and statistics.



3011 ALGEBRA I Honors

Grades 9-10, 1-2 credits

Prerequisite: Have taken Algebra I at BRMS and not met requirements for Geometry Honors or credit in Grade 8 Math with a B+ average or above in the second semester.

Recommendation: Recommended for Academic Honors Diploma. Required for Core 40 Diploma. Grade is weighted for GPA. Topics include real numbers and expressions; functions; linear equations, inequalities, and functions; systems of equations and inequalities; quadratic and exponential equations and functions; polynomials, factoring, and simplifying rational expressions; data analysis and statistics.

2841 GEOMETRY

Grades 10-12, 1-2 credits

Prerequisite: Credit in Algebra I at the high school level.

Recommendation: Required for Core 40 Diploma.

Students learn simple rules of logic and apply them to definitions, theorems, and postulates needed to write formal deductive proofs about geometric figures. Students will study properties and relationships of geometric figures including, points, lines, angles, and planes; triangles; quadrilaterals and other polygons; circles; transformations; and three-dimensional solids.

2847 GEOMETRY Honors

Grades 9-12, 1-2 credits

Prerequisite: Credit in Algebra I at the high school level or credit in Algebra I at the middle school level with an B+ average or above in the second semester.

Recommendation: Recommended for Academic Honors Diploma. Required for Core 40 Diploma. Grade is weighted for GPA. Students learn simple rules of logic and apply them to definitions, theorems, and postulates needed to write formal deductive proofs about geometric figures. Students will study properties and relationships of geometric figures including points, lines, angles, and planes; triangles; quadrilaterals and other polygons; circles; transformations; and three-dimensional solids.

2833 ALGEBRA II

Grades 10-12, 1-2 credits

Prerequisite: Credit in Algebra I. May take concurrently with Geometry Honors.

Recommendation: Required for Core 40 Diploma.

The course expands on topics of Algebra I. The students will study complex numbers and expressions; functions; systems of equations; quadratic equations and functions; exponential and logarithmic equations and functions; polynomial, rational, and other equations and functions; and data analysis, statistics, and probability.

2835 ALGEBRA II Honors

Grade 10-12, 1-2 credits

Prerequisite: Credit in Algebra I. Credit in Geometry or Geometry Honors or taken concurrently with Geometry Honors.

Recommendation: Required for Academic Honors Diploma. Required for Core 40 Diploma.

The course expands on topics of Algebra I. The students will study complex numbers and expressions; functions; systems of equations; quadratic equations and functions; exponential and logarithmic equations and functions; polynomial, rational, and other equations and functions; and data analysis, statistics, and probability. Course grade is weighted for GPA.



2845 PRE-CALCULUS: Algebra/Trigonometry—a two semester dual credit course—MATH 136 and MATH 137

Grades 11-12, 1-2 credits (Students taking this course for dual credit must take both semesters and may earn 6 credit hours)

Prerequisite: For high school credit—credit in Algebra I, Geometry or Geometry Honors, and Algebra II or Algebra II Honors with a minimum GPA of “C-” in Geometry and Algebra II. Course grade is weighted for GPA

Prerequisite (Ivy Tech): For dual credit—Achieve any of the following: KASTEM 70; ACT: Math 24; SAT 2016: Math 550; PSAT 10 (2016): Mathematics 27.0

Recommendation: Honor students interested in a math or science career. Satisfies requirement for Academic Honors Diploma. The course combines algebra, analytic geometry, and trigonometry. Topics include functions; quadratic, polynomial and rational equations and functions; exponential and logarithmic equations and functions; sequences and series; conics; unit circle; triangles; periodic functions; trigonometric identities; polar coordinates and complex numbers; and vectors.

2851 CALCULUS—a two semester dual credit course—MATH 211 Calculus 1

Grade 12, 1-2 credits (Students taking this course for dual credit must take both semesters and may earn 4 college credit hrs.)

Prerequisite: For high school credit—credit in Pre-Calculus. Course grade is weighted for GPA.

Prerequisite: For dual credit—MATH 136 and MATH 137 or KACALC 95

Recommendation: Students interested in a math or science career. May be taken concurrently with Finite Mathematics.

Topics include limits, continuity, derivatives and their applications, definite integrals, trigonometric and logarithmic functions, and techniques and applications of integration.

2855 FINITE MATHEMATICS—a two semester dual credit course—MATH 135 Finite Mathematics

Grade 11-12, 2 credits

Prerequisite: For high school credit—credit in Algebra I, Geometry or Geometry Honors, and Algebra II or Algebra II Honors

Prerequisite: For dual credit—achieve any of the following: KASTEM 70; ACT: Math 24; SAT 2016: Math 550; PSAT 10 (2016): Mathematics 27.0

Recommendation: Students planning to attend a 4 year college or university but not necessarily planning a career in math or science. May be taken concurrently with Calculus or Pre-Calculus. Satisfies requirement for Academic Honors Diploma.

This class is designed to prepare students for college mathematics. Topics include: sets, counting basic probability including random variables and expected values, linear systems, matrices linear programming, and applications. Course grade is weighted for GPA.

2550 QUANTITATIVE REASONING—a two semester dual credit course—MATH 123 Quantitative Reasoning

Grades: 11-12, 2 credits

Prerequisite: Credit in Geometry and Algebra II

Recommendation: Students planning to attend a two or four year college or university, but not entering a math or science career. This course satisfies requirement for all diplomas including the Academic Honors Diploma

This course focuses on the study of numerical, ratio and proportional reason, modeling, problem reasoning and statistics.

Students build knowledge of basic mathematical/analytical concepts and operations required for mathematical problem solving, decision making and economic productivity. Technology, such as computers and graphing calculators, should be used frequently. This higher-level math course is designed to align with college-level quantitative reasoning courses for dual secondary/college credit.



MULTIDISCIPLINARY

1447—1448 COMMUNITY SERVICE

Grade 12, 1 credit—this class can be taken only once

Prerequisite: None

This class provides students with altruistic experiences and opportunities to benefit community and selves. They will perform services in Rush County and be supervised by a community and faculty supervisor. Documentation of 48 hours of service is required. Students completing the requirements will earn one credit and an “A”. Non-completion of requirements will receive no credit for the class.

1401—1402 CADET TEACHING

Grade 12, 1 credit

Prerequisite: Six semester grade average of “B” or above and completed application; teacher recommendations.

Recommendation: Interest in becoming a teacher

This course gives the students the opportunity to learn about a career in education through actual teaching assignments at Rush County elementary, middle, and high schools. Students must submit application and three recommendation letters.

6162 COOPERATIVE EDUCATION (formerly ICE)

Grade 12—3 credits per semester (A total of 6 credits are possible for the year.)

Recommendation: Open to all students

This course is a two semester commitment including one block of classroom related instruction and four blocks of actual work experience. It provides students with the opportunity to practice and develop skills they have learned. The “training sponsor” will pay at least minimum wage in the career field for a minimum of fifteen hours per week. The course will occupy five blocks of the student’s schedule. Students will be expected to furnish their own transportation.

MUSIC

2935 BEGINNING CONCERT BAND

Grade 9, 1 credit per semester

Students taking this course are provided with a study of music through the concert band. Ensemble and solo activities are designed to develop elements of musicianship including tone production, technical skills, intonation, music reading skills, listening skills, analyzing music, studying significant styles of literature, and integration of other applicable disciplines.

Note: Several mandatory public performances will be required.

2937 INTERMEDIATE CONCERT BAND

Grade 10, 1 credit per semester Prerequisite: Beginning Concert Band

Students taking this course are provided with a study of music through the concert band. Ensemble and solo activities are designed to develop elements of musicianship including tone production, technical skills, intonation, music reading skills, listening skills, analyzing music, studying significant styles of literature , and integration of other applicable disciplines.

Note: Several mandatory public performances will be required.



2901 ADVANCED CONCERT BAND

Grades 11-12, 1 credit per semester

Prerequisite: By audition or permission of instructor

Band consists of concert band (The Pride of Rush County), marching band (The Roarin' Regiment), and pep band (The Rockin' Regiment) as well as ad-hoc ensembles such as Percussion Ensemble and Brass Choir. Concert band is the heart of the program and dominates the course's curriculum. Moderate to difficult band works are studied and performed in genres including but not limited to: contemporary and traditional wind band literature, orchestral transcriptions, musical theatre, and pop, jazz, and rock arrangements. Regular individual practice is expected.

Note: Attendance and performance at all home varsity football games, selected home varsity basketball games, and all other band performances are mandatory

2903 JAZZ ENSEMBLE

Grades 10-12, 1 credit per semester

Prerequisite: Student participants must be receiving instruction in another band or orchestra class offering

Recommendation: By audition of director's permission

Students taking this course develop musicianship and specific performance skills. Instruction includes the study of the history, formative, and stylistic elements of jazz. Students develop their creative skills through improvisation composition, arranging, performing, listening, and analyzing. **Note: Several mandatory public performances will be required.**

2921 BEGINNING CHORUS (Women's)

Grade 9, 1-2 credits

Students taking Beginning Chorus develop musicianship and performance skills through ensemble singing. This class includes the study of quality repertoire in the diverse styles of choral literature appropriate in difficulty and range for the students.

Students develop the ability to understand and convey the composer's intent in performance of music.

Note: Attendance at all performances is required.

2927 BEGINNING CHORUS (Men's)

Grade 9, 1-2 credits

Prerequisite: None

Students taking Beginning Chorus develop musicianship and performance skills through ensemble singing. This class includes the study of quality repertoire in the diverse styles of choral literature appropriate in difficulty and range for the students.

Students develop the ability to understand and convey the composer's intent in performance of music.

Note: Attendance at all performances is required.

2915 INTERMEDIATE CHORUS (Women's Choir)

Grade 10, 1-2 credits

Prerequisite: None

Medium to difficult SSA, SSAA music is performed. Students experience various types of music: sacred, classical, pop, folk, etc. Students will develop sight-singing skills and proper vocal techniques.

Note: Attendance at all performances is required.



2925 INTERMEDIATE CHORUS (Men's Choir)

Grade 10, 1-2 credits

Prerequisite: None

Medium to difficult SSA, SSAA music is performed. Students experience various types of music: sacred, classical, pop, folk. Students will develop sight-singing skills and proper vocal techniques. **Note: Attendance at all performances is required.**

2911 ADVANCED CHORUS (Women's—A Cappella Choir)

Grade 11-12, 1-2 credits

Prerequisite: At least one year of underclassmen choir—director's discretion

Recommendation: Interested students should demonstrate advanced musical and reading ability.

Instruction includes difficult music of predominately classical, secular, contemporary, and sacred styles. Many selections are performed without accompaniment. **Note: Attendance at all performances is required.**

2929 ADVANCED CHORUS (Men's—A Cappella Choir)

Grade 11-12, 1-2 credits

Prerequisite: At least one year of underclassmen choir—director's discretion

Recommendation: Interested students should demonstrate advanced musical and reading ability.

Instruction includes difficult music of predominately classical, secular, contemporary, and sacred styles. Many selections are performed without accompaniment. **Note: Attendance at all performances is required.**

PHYSICAL EDUCATION and HEALTH EDUCATION

1001 HEALTH EDUCATION

Grade 9, 1 credit—Required for graduation

This course provides current information on health topics such as eating disorders, cancer, sexually transmitted diseases, and wellness. Students gain an awareness of responsible decision making practices regarding personal health and wellness.

1011 CURRENT HEALTH ISSUES

Grades 10-12, 1 credit—Offered first semester only

Prerequisite: Health Education

This is a one semester in-depth study of current health issues. Some topics that will be researched are obesity, smoking, drug use, exercise, and more. This is a research based class. Students will have the opportunity to research some topics that they would like to learn more about and share their information.



1012 ADVANCED HEALTH EDUCATION

Grades 10-12, 1 credit—Offered second semester only

Prerequisite: Health Education

This elective course provides advanced knowledge and skills to help students adopt and maintain healthy behaviors. Through a variety of strategies, students practice the development of functional advanced health information and develop the essential skills necessary to adopt, practice, and maintain healthy behaviors. Advanced Health provides students with an in-depth study of promoting personal health and wellness, physical activity, healthy eating, promoting safety and preventing unintentional injury and violence, promoting mental and emotional health, a tobacco-free lifestyle and an alcohol-free and other drug-free lifestyles and promoting human development and family health.

1023 PHYSICAL EDUCATION I (*Semester 1*)

Grade 9, 1 credit—Required for graduation

This course emphasizes health-related fitness and developing skills and habits necessary for a lifetime of activity. This program includes skill development and the application of rules and strategies of complex difficulty I at least three of ten movement forms. Ongoing assessment includes written and performance-based skill evaluations with emphasis placed on skills, knowledge, and fitness. Failure to dress out will result in letter grade reduction and possible disciplinary action.

1024 PHYSICAL EDUCATION II (*Semester 2*)

Grade 9, 1 credit—Required for graduation

This course emphasizes a personal commitment to lifetime activity and fitness for enjoyment, challenge, self-expression, and social interaction. It provides student with opportunities to achieve and maintain a health-enriching level of physical fitness and increase their knowledge of fitness concepts, mental, physical, and social growth through participation in both individual and team sports. Emphasis is placed on skills, knowledge, and fitness. Failure to dress out for class will result in letter grade reduction and possible disciplinary action.

1033—1034 ADVANCED PHYSICAL CONDITIONING (APC)

Grades 10-12, 1-2 credits

Prerequisite: Physical Education I and Physical Education II

Freshman may take Advanced Physical Conditioning (APC) if they have previously taken PE I in summer school

Recommendation: Students seeking advanced levels of strength and conditioning leading to increased athleticism. This advanced physical conditioning (APC) course consists of an intense workout program that combines weight lifting, speed/agility/quickness training, and flexibility enhancement to develop increased levels of student athleticism. Workouts are designed to be of similar intensity and exertion level as extra-curricular athletic practices.

1043—1044 TEAM SPORTS

Grades 10-12, 1 credit per semester

Prerequisite: Physical Education I and Physical Education II

Recommendation: Students interested in team sports

Instruction in the class includes the following: strategies, rules, and officiating of games. Failure to dress out for class will result in grade reduction, disciplinary action, and possible removal from class. Note: Only one Physical Education class may be taken per semester.



SOCIAL STUDIES

1207 GEOGRAPHY and HISTORY OF THE WORLD

Grade 10-12, 2 credits, 2 semesters required

Recommendation: Open to all students

This is a two semester course for students to use maps, globes, graphs, and information technology as they study global patterns of physical and cultural characteristics. Students are expected to apply knowledge of geographic concepts to research inquiry, and participatory processes. Standards are organized around six elements: the world in spatial terms, places and regions, physical systems, human systems, environment and society, and the uses of geography.

1211 WORLD HISTORY and CIVILIZATION Honors

Grade 10-12, 2 credits, 2 semesters required

Prerequisite: For interested freshman students with a 3.0/B grade point average or above

Recommendation: Open to all students

Students study Western and Eastern culture and events from prehistoric times to the present . This course is designed for students with an interest in history working toward the Academic Honors Diploma. Course grade is weighted for GPA.

1225 UNITED STATES HISTORY Honors

Grade 11, 2 credits, 2 semesters required

Prerequisite: Above average grades or permission of counselor/teacher

Recommendation: College-bound students

Students study U.S. political, economics, and social history from the late 19th century to the present. Measures of achievement include essay and objective exams, quizzes, and semester tests. This class is designed to prepare the student for the high pressure environment of college work. Course grade is weighted for GPA.

1221 UNITED STATES HISTORY

Grade 11, 1-2 credits, 2 semesters required

Recommendation: Required for graduation. This course offers two semesters of U.S. History.

U.S. History I: Review of the American Revolution, writing of the Constitution, and the causes and effects of the Civil War. The emphasis of the class will be the post Civil War era through World War I.

U.S. History II: Students will study the 1920's to the present.

1245—1246 ECONOMICS

Grade 12, 1 credit

Recommendation: Required for graduation

This course explores the American economic system and other economies around the world. Core concepts will include debt management, wealth building, career planning, supply and demand, circular flow of economic activity and opportunity cost. Students will learn the skills required to make choices in a competitive marketplace. Teaching students to satisfy their wants and needs through the careful use of scarce resources is the main objective of this class.



1247—1248 ECONOMICS Honors

Grade 12, 1 credit—The grade for this class is weighted for GPA.

Recommendation: College-bound students

This class emphasizes microeconomic and macroeconomic concepts. Students will learn core American consumer skills including debt management, wealth building, career planning, supply and demand, circular flow of economic activity, and opportunity cost. The ability to create and explain economic models will be a major component of this class.

1255—1256 UNITED STATES GOVERNMENT

Grade 12, 1 credit, required for graduation for all seniors.

Prerequisite: U.S. History and one credit from Civics or World History or World Geography.

Instruction involves a comprehensive approach regarding the origins, concepts, functions and organization of the United States governmental structure. During the course, a wide variety of government roles are presented.

1261 UNITED STATES GOVERNMENT Honors

Grade 12, 1 credit

Prerequisite: U.S. History and World History or World Geography

Recommendation: College-bound honors students

This class requires assigned reading and individual and group projects which give students the opportunity to gain a better understanding of the American government as well as the importance of individual participation. The material to be covered includes the origins, concepts, functions, and organization of the United States government. An overview of both the governmental and economic systems used throughout the world is included. Grade is weighted for GPA.

1516 ETHNIC STUDIES

Grade 9-12, 1 credit—a one semester course

Prerequisite: None

This course either focuses on particular ethnic groups, or uses a comparative approach to study the patterns of cultural development, immigration, assimilation, and contributions of ethnic groups. It may also include political analysis of the impact of ethnic diversity in the United States

1518 INDIANA STUDIES

Grade 9-12, 1 credit—a one semester course, offered first or second semester

This course 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.



SCIENCE

1111 BIOLOGY I

Grade 9, 2 credits, 2 semesters required

Prerequisite: None

Recommendation: Required of freshmen who are not enrolled in Biology I H.

This is an introductory course in biology. The student learns of important discoveries in biology, cell structure and function, photosynthesis and respiration, genetics, ecology, and evolution. Also covered in this course are selected vertebrates, ecology and botany. Laboratory investigations, including dissections and classroom projects, will be used to emphasize topics covered throughout the course.

1115 BIOLOGY I Honors

Grade 9, 2 credits, 2 semesters required

Prerequisite: Recommended 3.0/B or better average in previous middle school science course. Students should be currently enrolled in or have completed Algebra Honors

Recommendation: For freshmen who have demonstrated an interest/aptitude for science during middle school course work.

This course is designed to introduce the student to many representative areas of biology at an accelerated pace. In-depth studies of certain topics will be conducted. Laboratory investigations, including dissections will be used to emphasize lecture material. Topics to be studied include cellular chemistry and structure, matter cycles and energy transfer, interdependence, molecular basis of heredity, cell reproduction, genetics, and evolution.

1101 EARTH / SPACE SCIENCE

Grade 10-12, 1-2 credits

Prerequisite: Biology I or Biology I Honors

Recommendation: For students pursuing an education at a 4-year college and for those with interest in earth-space studies.

The course is designed to introduce the student to the areas of meteorology, geology, astronomy, and physical geography. These areas include, but are not limited to, scientific measurements and methods, use of maps and mapping, meteorological techniques and concepts, plate tectonics, land formation and features, rocks and minerals, chemistry, weathering and erosion, natural cycles, geologic history of the earth, and earth-moon relationship. The student learns to make predictions based upon information learned and will be able to relate his/her ideas in writing and in speech.

1133 INTEGRATED PHYSICS / CHEMISTRY

Grades 10-12, 2 credits, 2 semesters required

Prerequisite: Biology I or Biology I Honors

The course is designed as a survey of science, explaining a broad scope of scientific disciplines. These include an in depth study of scientific methodology and measurement with strong emphasis on problem solving techniques and skills, a general overview of chemistry and a practical application of selected laws of physics as they apply to everyday life.

1141 CHEMISTRY Honors

Grades 10-12, 2 credits, 2 semesters required

Prerequisite: Biology I or Biology I Honors

Recommendation: For college bound students, especially those pursuing studies in the area of the sciences.

The structure of matter and its changes as well as atomic and molecular structure will be covered in this class. Labs will be used to illustrate the concepts presented. Mathematical relationships and problem solving will be used to emphasize the quantitative nature of science. Students enrolled in this class should have successfully completed at least one year of algebra.



1151 PHYSICS I Honors

Grades 11-12, 1-2 credits

Prerequisite: Chemistry Honors and Algebra II. Students must be enrolled in or have successfully completed Pre-Calculus.

Recommendation: For students intending to pursue further studies in the sciences, engineering or related fields of study.

The first semester will consist of Newtonian Mechanics, which form the foundation of physics. The second semester is divided between the studies of heat, light, electricity and magnetism, nuclear energy and sound as time allows. Laboratories will be used whenever possible to reinforce the concepts studied. The computer will be used to analyze and collect data as needed.

5218 PLTW PRINCIPLES of BIOMEDICAL SCIENCES (Project Lead The Way)

Grade 9-12, 2 credits, 2 semesters required. Fulfills a science requirement for all diplomas

Prerequisite: Biology I or concurrent enrollment in Biology I is required

This course provides an introduction to this field through “hands-on” projects and problems. Student work involves the study of human medicine, research processes and an introduction to bioinformatics. Students investigate the human body systems and various health conditions including heart disease, diabetes, hypercholesterolemia and infectious diseases. A theme through the course is to determine the factors that led to the death of a fictional person. After determining the factors responsible for the death, the students investigate lifestyle choices and medical treatments that might have prolonged the person’s life. The course is designed to provide an overview of all courses in the Biomedical Sciences program and to lay the scientific foundation necessary for student success in the subsequent courses.

5216 PLTW HUMAN BODY SYSTEMS (Project Lead The Way)

Grade 10-12, 2 credits, 2 semesters required. Fulfills a Science credit for all diplomas. Offered in even years.

Prerequisite: Principles of Biomedical Sciences

This is a course designed to engage students in the study of basic human physiology and the care and maintenance required to support the complex systems. Using a focus on human health, students will employ a variety of monitors to examine body systems (respiratory, circulatory, and nervous) at rest and under stress, and observe the interactions between the various body systems. Students will use appropriate software to design and build systems to monitor body functions.

5217 PLTW MEDICAL INTERVENTIONS (Project Lead The Way)

Grade 10-12, 2 credits, 2 semesters required. Fulfills a science credit for all diplomas. Offered in odd years.

Prerequisite: Principles of the Biomedical Sciences

This is a course that studies medical practices including interventions to support humans in treating disease and maintaining health. Using a project-based learning approach, students will investigate various medical interventions that extend and improve quality of life, including gene therapy, pharmacology, surgery, prosthetics, rehabilitation, and supportive care.

Students will also study the design and development of various interventions. Lessons will cover the history of organ transplants and gene therapy with additional readings from current scientific literature addressing cutting edge developments.

1127-1128 BIOLOGY II—a dual credit course through Ivy Tech—BIO 101 Introduction to the Biological World

Grades 11-12, 2 credits, 2 semesters required.

Prerequisite: Biology, Chemistry, Physics and/or Integrated Physics/Chemistry. Biology H is not required but recommended.

Recommendation: This class is offered for students who are planning a course of study at a university or college. It typically fulfills the freshman requirement for science at most Indiana colleges and universities for a non-science major. There are two components to this course: lecture and laboratory. Work outside of class is mandatory. Principles of biological organization, from molecules through cells and organisms to populations, are stressed in this course. Processes common to all organisms, with special reference to humans, will be emphasized.



AGRICULTURAL SCIENCE and TECHNOLOGY

7117 PRINCIPLES OF AGRICULTURE—a dual credit course—AGRI 100 Principles of Agriculture

Grades 9-12, 2 credits, 2 semesters required

Recommendation: Highly recommended as a prerequisite for all other agriculture classes

Topics covered in this course range from animals, plants, food, natural resources, ag power, structures and technology and agribusiness. Participation in FFA is highly encouraged along with a supervised ag experience program (SAE). This course may be taken for dual credit through Ivy Tech College.

5132 HORTICULTURE SCIENCE—a dual credit course—AGRI 116 Survey of Horticulture

Grades 9*-12, 2 credits, 2 semesters required

*Freshman may take course if Principles of Agriculture was completed at BRMS.

This course may be taken for dual credit through Ivy Tech College

Prerequisite: Principles of Agriculture

Recommendation: This course counts as a science credit for the General diploma. It is highly recommended that students take Introduction to Agriculture, Food, and Natural Resources before taking this class.

Students are introduced to the biology and technology involved in the production, processing, and marketing of horticultural plants and products. Topics include reproduction/propagation of plants, plant growth, growth media, management practices for field and greenhouse production, marketing concepts, nursery stock, and pest management.

Note: Students will be responsible for all additional post-secondary fees.

5088 AGRICULTURE POWER, STRUCTURE and TECHNOLOGY I—a dual credit course—AGRI 106 Ag Mechanization

Grade 10-12, 2 credits, 2 semesters required. This course may be taken for dual credit through Ivy Tech College

Prerequisite: Principles of Agriculture

This year long course is an intensive lab in which students develop an understanding of basic principles of selection, operation, maintenance of agricultural equipment while incorporating technology. Topics covered include: safety, career opportunities in the area of agriculture power, structure, and technology. Additional topics covered are safety, engines, and electricity.

7114 GREENHOUSE and SOILLESS PRODUCTION—a dual credit course—AGRI 129 Greenhouse and Soilless Prod.

Grades 10-12, 2 credits, 2 semesters required. Offered in **odd** numbered years. May be taken for dual credit through Ivy Tech

Prerequisite: Principles of Agriculture

Greenhouse and Soilless Production is a two semester course that provides an overview of structural designs and uses of enclosed structures (greenhouses) to grow various plants and food. The course discuss different types of enclosed structures, management systems, and growing systems used to produce plants and food. It also presents an overview of soilless growing systems such as hydroponics, aquaponics, aeroponics, and fogponics by utilizing the school greenhouse as part of this course-

Note: Students will be responsible for all additional post-secondary fees.



5008 ANIMAL SCIENCE—a dual credit course—AGRI 103 Animal Science

Grades 9-12, 2 credits, 2 semesters required. (Grade 9 allowed if completed Principles of Agriculture at BRMS).

This course may be taken for dual credit through Ivy Tech College.

Prerequisite: Principles of Agriculture

Recommendation: It is highly recommended that students take Introduction to Agriculture, Food, and Natural Resources before taking this class. This course also counts as a science credit for all diplomas.

Students are provided with an overview of the field of animal science. All areas to be studied may be applied to large and small animals. Topics include history and trends in animal agriculture, genetics, reproduction, nutrition, careers in animal science, common diseases and parasites, social and political issues related to the industry, and management practices for the care and maintenance of animals.

Note: Students will be responsible for all additional post-secondary fees.

5002 AGRIBUSINESS MANAGEMENT—a dual credit course—AGRI 102 Agri-Business and Farm Management

Grades 10-12, 2 credits, 2 semesters required. Offered in even numbered years. Dual credit offered through Ivy Tech College

Also counts for Ivy Tech Certificate.

Prerequisite: Principles of Agriculture.

This year long course presents the concepts for managing an agriculture-related business. It includes: identification of careers in agribusiness, global visioning, safety management, entrepreneurship. The planning, organizing, controlling and directing of an agribusiness, effects of government organizations on agribusiness, economic principles, credit, record keeping, budgeting, cash flow, taxation and the tax system, insurance, marketing, cooperatives, purchasing, technology in agribusiness, human resource management, custom service, and employer-employee relations and responsibilities.

Note: Students will be responsible for all additional post-secondary fees.

5070 ADVANCED LIFE SCIENCE, ANIMALS—a dual credit course—AGRI 107 Advanced Animal Science

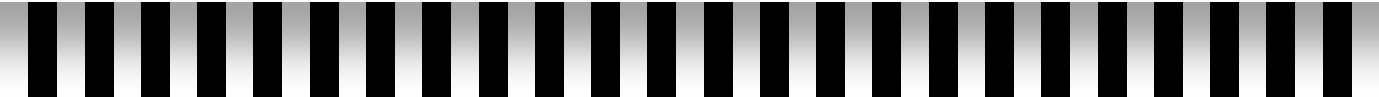
Grades 11-12, 2 credits, 2 semesters required. A Core 40 science credit, meets Academic Honors Diploma requirements and can satisfy the third year science requirement. Offered in odd numbered years.

Prerequisite: Principles of Agriculture, two years of Core 40/AHD science course work.

Recommendation: Students should be in the upper 50% of their class, have completed Biology I or be given permission by the instructor. Animal Science is strongly recommended

This course is a study of animal agriculture emphasizing the efficient production of animal food products from poultry, dairy and meat animals. Students investigate concepts that enable them to understand animal life and animal science as it pertains to agriculture. Through instruction, including laboratory and fieldwork, they recognize concepts associated with animal taxonomy, life at the cellular level, organ systems, genetics, evolution and ecology.

Note: Students will be responsible for all additional post-secondary fees.



5180 NATURAL RESOURCES—a two semester dual credit course—AGRI 115 Natural Resource Management

Grades 10-12, 2 credits, 2 semesters required. Offered in even numbered years.

This course may be taken for dual credit through Ivy Tech College. This course also counts as a science credit for all diplomas.

Prerequisite: Principles of Agriculture

This course is a year long program that provides students with a background in natural resource management. Students are introduced to career opportunities in natural resource management and related industries, the history of the forest industry and forest policy, the importance and uses of forest plants, factors that influence the development of forests, forest improvement and best management practices, proper care and use of forest tools and equipment, effects of management practices on the environment, soil conservation practices, water and its importance to natural resource management, hazardous waste management, native wildlife, waterfowl, fish, wetlands and pond management, surveying and map use, management of recreational areas, outdoor safety, and weather. “Hands-on” learning activities encourage students to investigate areas of environmental concern including: identification and management of ecosystems, management of waste, chemicals and the environment, soil conservation, land uses, regulations and ordinances, water and air quality. **Note: Students will be responsible for all additional post-secondary fees.**

5074 ADVANCED LIFE SCIENCE, PLANT and SOIL—a dual credit course—AGRI 109 Advanced Plant and Soil

Grades 11-12, 2 credits, 2 semesters required. This course is offered in even numbered years.

This course may be taken for dual credit through Ivy Tech College. A Core 40 science credit, this course meets AHD requirements and can satisfy the third year science requirement.

Prerequisite: Principles of Agriculture and two years of Core 40/AHD science course work

Recommendation: Upper 50% of class, must have completed Biology I or with permission of instructor

This is an introduction to the major groups in the plant kingdom, their origin, classification, and economic importance. Students study concepts, principles, and theories associated with plants and soils. Knowledge gained enables them to better understand the workings of agricultural and horticultural practices. They recognize how plants are classified, grow, function and reproduce. Students explore plant genetics and the use of plants by humans. They examine plant evolution and the role of plants in ecology. Students investigate, through laboratories and fieldwork, how plants function and how soil influences plant life.

Note: Students will be responsible for all additional post-secondary fees.

5228 SUPERVISED AG EXPERIENCE and LEADERSHIP

Grades 11-12, 1-2 credits, 8 credits maximum

Prerequisite: Principles of Agriculture and permission of instructor

Recommendation: FFA officers/students interested in FFA

This course may be taken for up to four semesters. Instruction focuses on activities that promote the use of verbal and written communication skills necessary in preparing the following: application proficiency, programs of activities, reports, and gaining contest skills in FFA activities and competition.



BUILDING MAINTENANCE

7130 PRINCIPLES OF CONSTRUCTION TRADES

Grades 9-11, 2 credits, 2 semesters required

Prerequisite: None

Recommendation: None

Principles of Construction Trades prepares students with the basic skills needed to continue in a construction trade field.

Topics will include an introduction to the types and basic terminology associated with construction drawings, and basic safety.

Additionally students will study the roles of individuals and companies within the construction industry and reinforce mathematical and communication skills necessary to be successful in the construction field.

7285 BUILDING AND FACILITIES MAINTENANCE FUNDAMENTALS

Grades 10-12, 2 credits, 2 semesters required

Required Prerequisite: Principles of Construction Trades

Recommendation: None

Building and Facilities Maintenance Fundamentals prepares students to complete basic maintenance tasks like minor construction repairs and be able to repair and/or replace various building materials including flooring, wall covering, hardware, lighting and plumbing fixtures.

7286 ADVANCED BUILDING AND FACILITIES MAINTENANCE

Grades 10-12, 2 credits, 2 semesters required

Required Prerequisites: Principles of Construction Trades; Building and Facilities Maintenance Fundamentals

Recommendation: None

Advanced Building and Facilities Maintenance prepares students to complete more advanced repairs involving a building's mechanical system including electrical, HVAC and plumbing.



*Rushville Consolidated
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“Excellence in Education—Preparation for Life”

2024-2025