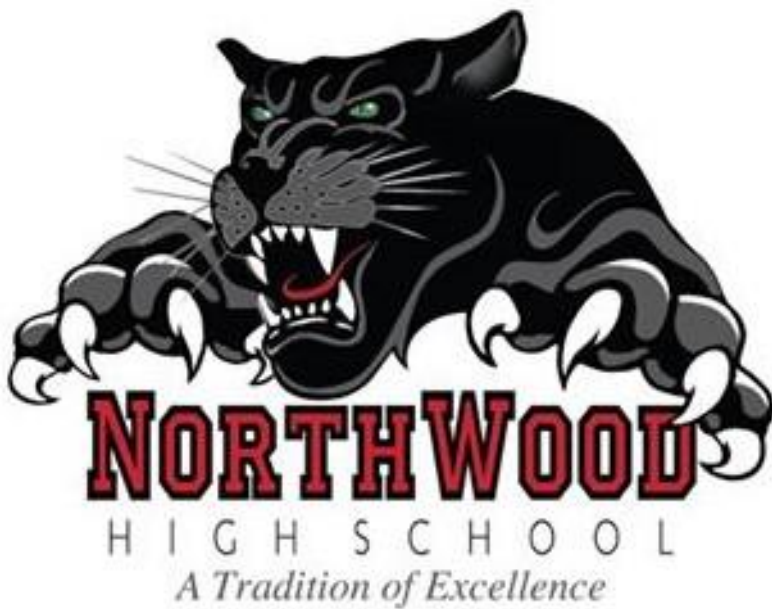


2022-2023

COURSE CATALOG



2101 North Main Street

Nappanee, IN 46550

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INTRODUCTORY INFORMATION

ADMINISTRATIVE AND GUIDANCE STAFF

Principal: Weston Lambert

Vice Principal: Chris Berg

Dean of Secondary Education: Jade Sipic

School Counselors: Charlene Koenig (Students with Last Name A-L)
Angie Clark (Students with Last Name M-Z)

Counseling Secretary & Registrar: Dawn Birr

GRADUATION REQUIREMENTS

Beginning with the Class of 2016, students must meet the Indiana Core 40 graduation 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
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: US History 2 Credits: World History/Civilization 1 Credit: US Government 1 Credit: Economics
Directed Electives	5 Credits Career and Technical Education Fine Arts World Languages
Physical Education	2 Credits
Health & Wellness	1 Credit
Electives**	6 Credits
40 Total State Credits Required	

**Students must take a math course or quantitative reasoning course each year in high school. See Appendix A for a list of quantitative reasoning courses offered at NWHIS*

*** All students must participate in financial literacy education via the Preparing for College & Careers Course*

****ICAP courses may be made available if necessary*

GRADUATION QUALIFYING EXAM

All students in the class of 2023 and beyond will take the SAT exam during the school day during their junior year. Meeting college Readiness Benchmarks on this exam is one way in which a student may meet requirements for the Post-Secondary competencies of all Indiana diplomas.

CORE 40 WITH ACADEMIC HONORS DIPLOMA

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
 - Must earn 6 credits in one language or 4 credits each in two languages
- Earn 2 Core 40 fine arts credits
- Earn a grade of “C” or better in courses that will count toward the diploma
- Have a grade point average of 3.0 or better
- Complete one of the following:
 - Earn 4 credits in 2 or more AP courses and take corresponding AP exams
 - Earn 6 verifiable transcribed college credits in dual credit courses from the approved dual credit list
 - Earn both of the following:
 - A minimum of 3 verifiable transcribed college credits from the approved dual credit list
 - Two credits in AP courses and corresponding AP exams
 - Earn a composite score of 1250 or higher on the SAT and a minimum of 560 on math and 590 on the evidence based reading and writing section
 - Earn an ACT composite score of 26 or higher and complete written section

CORE 40 WITH TECHNICAL HONORS

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

- Complete all requirements for Core 40
- Earn 6 credits in the college and career preparation courses in a state-approved College & Career Pathway and one of the following:
 - Pathway designated industry-based certification or credential, or
 - 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 3.0 or better
- Complete one of the following:
 - Earn 4 credits in 2 or more AP courses and take corresponding AP exams
 - Earn 6 verifiable transcribed college credits in dual credit courses from the approved dual credit list
 - Earn both of the following:
 - A minimum of 3 verifiable transcribed college credits from the approved dual credit list
 - Two credits in AP courses and corresponding AP exams
 - Earn a composite score of 1250 or higher on the SAT and a minimum of 560 on math and 590 on the evidence-based reading and writing section
 - Earn an ACT composite score of 26 or higher and complete written section
 - Earn the following minimum scores on Accuplacer: Writing 80, Reading 90, Math 75

HEALTH & WELLNESS WAIVER

Students may waive the Health & Wellness graduation requirement by passing any three of the following courses:

- Preparing for College & Careers
- Interpersonal Relationships
- Nutrition and Wellness
- Child Development
- Adult Roles and Responsibilities

ATHLETIC ELIGIBILITY

You are eligible* if:

- You passed 80% of the full credit subjects or the equivalent that a student can take in your previous grading period. Trimester grades take precedence.
- You are currently enrolled in 80% of the full credit subjects or the equivalent that a student can take.

**These are only the scholarship requirements of athletic eligibility. For a full list of requirements, please visit the IHSAA website.*

TRANSFERS

Students transferring from **non-accredited schools**, such as homeschools, will be evaluated on a per-student basis. Proof of coursework completed must be submitted. There may be a limit to the number of credits granted. Students transferring from an **accredited high school** will be enrolled under the Transfer Student policy provisions.

NEW GRADUATION REQUIREMENTS – CLASS OF 2023 & BEYOND

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

Graduation Pathway Requirements	Graduation Pathway Options
High School Diploma	Must complete the requirements for the Core 40 high school diploma
Learn and Demonstrate Employability Skills	Learn employability skills standards through locally developed programs. Employability skills are demonstrated by one of the following: <ul style="list-style-type: none"> • Project-based learning experience <ul style="list-style-type: none"> ○ Complete a course capstone; or ○ Complete a research project • Service-based learning experience <ul style="list-style-type: none"> ○ Participate in meaningful volunteer or civic engagement experience; or ○ Engagement in school-based activity, such as extracurricular or sport, for at least one academic year • Work-based learning experience <ul style="list-style-type: none"> ○ Complete a course capstone; ○ Complete an internship; ○ Obtain the Governor’s Work Ethic Certificate; or ○ Be employed outside of the school day
Postsecondary-Ready Competencies (Students must complete at least one of the options listed)	<ul style="list-style-type: none"> • Honors Diploma: Fulfill all requirements of either the Academic or Technical Honors diploma; • ACT: Meet college-ready benchmarks; <ul style="list-style-type: none"> ○ 2017 Scores: 18 English or 22 Reading AND 22 Math or 23 Science • SAT: Meet college-ready benchmarks; <ul style="list-style-type: none"> ○ 2017 Scores: 480 English; 530 Math • ASVAB: Earn at least a minimum AFQT score to qualify for placement into one of the branches of the US military; • State and Industry recognized credential or certification; • State and Industry recognized apprenticeship; • Career-Technical Education Concentrator: Must earn a C or higher in a in a career sequence*; or • AP/Dual Credit: Must earn a C or better in at least 3 courses

**See next page for career sequences offered at NorthWood. Other options available at Elkhart Area Career Center*

CONCENTRATORS OFFERED AT NORTHWOOD HIGH SCHOOL FOR STUDENTS IN CLASSES 2023 AND 2024

Agriculture: Animal Systems

- Advanced Life Science: Animals/AGRI 107 IVY TECH
- Agribusiness Management/AGRI 102 IVY TECH
- Both courses have a prerequisite of Principles of Agriculture A/B or Intro to Agriculture A/B

Architecture & Construction: Recreational Vehicle Construction

- Building & Facilities Management I
- Construction Trades: Electrical I

Arts, AV Tech and Communication: Interactive Media

- Interactive Media
- Graphic Design and Layout

Business & Marketing: Banking/Finance

- Advanced Accounting
 - Prerequisite: Intro to Accounting
- Banking & Investment Capstone

Manufacturing & Logistics: Advanced Manufacturing

- Advanced Manufacturing I
 - Prerequisite: Intro to Manufacturing
- Advanced Manufacturing II

STEM/ Information Tech: Computer Science/ Programming

- Computer Science I
 - Prerequisite: Intro to Computer Science
- Computer Science II

CONCENTRATORS (NLPS) OFFERED AT NORTHWOOD HIGH SCHOOL FOR STUDENTS IN CLASSES 2025 AND BEYOND

**Concentrator starts sophomore year*

<p>Agriculture, Food & Natural Resources: Ag Mechanical & Engineering</p>	<ul style="list-style-type: none"> •Principles of Agriculture/AGRI 100 •Ag Power, Structures & Technology/AGRI 106 •Ag Structures, Fabrication & Design •Ag Mechanization and Technology Capstone
<p>Agriculture, Food & Natural Resources: Agriscience - Animals</p>	<ul style="list-style-type: none"> •Principles of Agriculture/AGRI 100 •Animal Science/AGRI 103 or Plant & Soil Science/AGRI 105 •ALS: Animals/AGRI 107 •Agriculture Capstone
<p>Agriculture, Food & Natural Resources: Agriscience - Plants</p>	<ul style="list-style-type: none"> •Principles of Agriculture/AGRI 100 •Plant & Soil Science/AGRI 105 •ALS: Plants and Soil/AGRI 109 •Agriculture Capstone
<p>Architecture & Construction: Building & Facilities Maintenance</p>	<ul style="list-style-type: none"> •Principles of Construction Trades •Building & Facilities Maintenance Fundamentals •Advanced Building & Facilities Maintenance •Building & Facilities Maintenance Capstone
<p>Arts, AV Tech and Communication: Digital Design*</p>	<ul style="list-style-type: none"> •Principles of Digital Design •Digital Design Graphics •Graphic Design and Layout •Digital Design Capstone
<p>Arts, AV Tech and Communication: Interior Design</p>	<ul style="list-style-type: none"> •Principles of Interior Design •Interior Design Fundamentals •Materials, Finishes and Design •Interior Design Capstone
<p>Civic Arts: Band</p>	<ul style="list-style-type: none"> •Intro to Business OR Principles of Business Management •Beginning Concert Band •Intermediate Concert Band •Advanced Concert Band
<p>Civic Arts: Choral</p>	<ul style="list-style-type: none"> •Intro to Business OR Principles of Business Management •Beginning Chorus •Intermediate Chorus •Advanced Chorus
<p>Education and Training: Early Childhood</p>	<ul style="list-style-type: none"> •Principles of Early Childhood Education •Early Childhood Education Curriculum •Early Childhood Education Guidance •Early Childhood Education Capstone
<p>Marketing: Marketing & Sales</p>	<ul style="list-style-type: none"> •Principles of Business Management •Marketing Fundamentals •Digital Marketing •Business Management Capstone

GENERAL DIPLOMA

The Indiana Core 40 diploma is the default diploma for all students. If the parents and the student decide that a general diploma is needed, a conference with school personnel is required.

Course and Credit Requirements	
English/Language Arts	<p>8 Credits</p> <p>Credits must include literature, composition and speech</p>
Mathematics*	<p>4 Credits</p> <p>2 Credits: Algebra I</p> <p>2 Credits: Any Math Course</p>
Science**	<p>4 Credits</p> <p>2 Credits: Biology I</p> <p>2 Credits: Any Science Course</p>
Social Studies	<p>4 Credits</p> <p>2 Credits: US History</p> <p>1 Credit: US Government</p> <p>1 Credit: Any social studies course</p>
Physical Education	2 Credits
Health and Wellness	1 Credit
College & Career Pathway Courses	6 Credits: Courses are selected in a deliberate manner to take full advantage of college and career exploration and preparation opportunities
Flex Credit	5 Credits: Flex Credits must come from addition electives in the college and career pathway, cooperative education or ICE courses, dual credit courses, or additional courses in English, Social Studies, Math, Science, World Language or Fine Arts
Electives***	6 Credits
40 Total Credits Required	

**Students are required to earn 2 credits in a Math or Quantitative Reasoning (QR) course during their junior or senior year. QR courses don't count as math credits.*

***At least one credit must be from a Physical Science course.*

**** All students must participate in financial literacy education via the Preparing for College & Careers Course*

SAMPLE 4-YEAR PLAN FOR CORE 40 DIPLOMA WITH A CONCENTRATOR (CLASS OF 23/24)

FRESHMAN YEAR	SOPHOMORE YEAR	JUNIOR YEAR	SENIOR YEAR
English 9/Themes in Lit	English 10	English 11	English 12
Algebra I	Algebra II	Geometry	Trigonometry; Probability & Statistics
Biology	Integrated Chem/Physics	Science Elective	Government and Economics
Preparing for College & Careers	World History	US History	
Phys Ed I/II	Health/Intro Concentrator	Concentrator A or Elkhart Area Career Center	Concentrator B or Elkhart Area Career Center

SAMPLE 4-YEAR PLAN FOR CORE 40 DIPLOMA WITH A CONCENTRATOR (CLASS OF 25 & BEYOND)

FRESHMAN YEAR	SOPHOMORE YEAR	JUNIOR YEAR	SENIOR YEAR
English 9/Themes in Lit	English 10	English 11	English 12
Algebra I	Algebra II	Geometry	Trigonometry/Precalculus
Biology	Integrated Chem/Physics	Science Elective	Government and Economics
Preparing for College & Careers	World History	US History	
Phys Ed I/II	Health	Elective, Fine Arts, or World Language	Elective, Fine Arts, or World Language
Intro to Concentrator	Concentrator A	Concentrator B	Concentrator Capstone

SAMPLE 4-YEAR PLAN FOR CORE 40 WITH ACADEMIC HONORS DIPLOMA

FRESHMAN YEAR	SOPHOMORE YEAR	JUNIOR YEAR	SENIOR YEAR
English 9/Themes in Lit	English 10	English 11	English 12 or Dual Credit English
Algebra I	Geometry	Algebra II	Trigonometry/Precalculus
Biology	Chemistry I	Science Elective	Science Elective
Preparing for College & Careers	World History	US History or Dual Credit US History	Government and Economics/AP Economics
Phys Ed I/II	World Language I	World Language II	World Language III
Fine Arts or Career Electives	Fine Arts/Career Electives/ Health	Fine Arts or Career Electives	Fine Arts or Career Electives

AGRICULTURE

Principles of Agriculture/AGRI 100

- Agriculture Power, Structures & Technology/AGRI 106
- Agriculture Structures, Fabrication & Design
- Agriculture Mechanization & Technology Capstone

- Animal Science/AGRI 103
- Advanced Life Science, Animals/AGRI 107
- Agricultural Research Capstone

- Plant & Soil Science/AGRI 105
- Advanced Life Science, Plants & Soils/AGRI 109
- Agricultural Research Capstone

Stand Alone Courses:

- CTSO Leadership Development in Action (FFA)
- Natural Resources/AGRI 115
- Veterinary Careers

PRINCIPLES OF AGRICULTURE/AGRI 100 IVY TECH

7117 (PRIN AG)

Principles of Agriculture is a two-trimester course that will cover the diversity of the agricultural industry and agribusiness concepts. Students will develop an understanding of the role of agriculture in the United States and globally. Students will explore Agriculture, Food, and Natural Resource (AFNR) systems related to the production of food, fiber and fuel and the associated health, safety, and environmental management systems. Topics covered in the course range from animals, plants, food, natural resources, ag power, structures and technology, and agribusiness. Participation in FFA and Supervised Agricultural Experiences (SAE) will be an integral part of this course to develop leadership and career ready skills.

- 2 trimesters, Grades 9 – 11
- Counts as a directed elective or elective credits for all diplomas

NATURAL RESOURCES/AGRI 115 IVY TECH

5180 (NAT RSS)

Natural Resources is a two-trimester course that provides students with a background in environmental science and conservation. Course work includes hands-on learning activities that encourage students to investigate areas of environmental concern. Students are introduced to the following areas of natural resources: soils, the water cycle, air quality, outdoor recreation, forestry, minerals, interrelationships between humans and natural systems, wetlands, wildlife, safety, careers, leadership, and supervised agricultural experience programs

- 2 trimesters, Grades 10-12 (Freshmen may be admitted with instructor approval)
- OFFERED ALTERNATING YEARS (2022 – 2023)
- Prerequisite: Principles of Agriculture
- Counts as a Directed Elective or Elective for all diplomas
- Fulfills a Core 40 Science requirement for all diplomas

PLANT AND SOIL SCIENCE/AGRI 105 IVY TECH

5170 (PLT SL SCI)

Plant and Soil Science is a two-trimester course that provides students with opportunities to participate in a variety of activities including laboratory and field work. Coursework includes High School Course Titles and Descriptions 2022-2023 242 hands-on learning activities that encourage students to investigate areas of plant and soil science. Students are introduced to the following areas of plant and soil science: plant growth, reproduction and propagation, photosynthesis and respiration, diseases and pests of plants and their management, biotechnology, the basic components and types of soil, soil tillage, and conservation.

- 2 trimesters, Grades 10-12
- Prerequisite: Principles of Agriculture or teacher approval
- Counts as a Directed Elective or Elective for all diplomas
- Fulfills a Core 40 Science requirement for all diplomas and Life/Physical Science for General Diploma only

ANIMAL SCIENCE/AGRI 103 IVY TECH

5008 (ANML SCI)

Animal Science is a two-trimester course that provides students with an overview of the animal agriculture industry. Students participate in a large variety of activities and laboratory work including real and simulated animal science experiences and projects. All areas that the students study may be applied to both large and small animals. Topics to be covered in the course include: history and trends in animal agriculture, laws and practices relating to animal agriculture, comparative anatomy and physiology of animals, biosecurity threats and interventions relating to animal and human safety, nutrition, reproduction, careers, leadership, and supervised agricultural experiences relating to animal agriculture.

- 2 trimesters, Grades. 10-12 (Freshmen may be admitted with instructor approval)
- Prerequisite: Principles of Agriculture
- Counts as a Directed Elective or Elective for all diplomas
- Fulfills a Life Science or Physical Science requirement for the General Diploma
- Fulfills a Core 40 Science requirement for all diplomas

ADVANCED LIFE SCIENCE: ANIMALS/AGRI 107 IVY TECH

5070 (ALS ANIML)

Advanced Life Science: Animals is a two trimester course that provides students with opportunities to participate in a variety of activities including laboratory work. Students will explore concepts related to history and trends in animal agriculture as related to animal welfare, husbandry, diseases and parasites, laws and practices relating to handling, housing, environmental impact, global sustainable practices of animal agriculture, genetics, breeding practices, biotechnology uses, and comparative knowledge of anatomy and physiology of animals used in animal agriculture.

- 2 trimesters, Grades 11-12
- Prerequisite: Principles of Agriculture
- Recommended Prerequisites: Animal Science and Chemistry or Integrated Chem/Phys
- Counts as an Elective or Directed Elective for all diplomas
- Fulfills a Core 40 Science requirement for all diplomas
- Qualifies as a quantitative reasoning course

CTSO LEADERSHIP DEVELOPMENT IN ACTION

5237 (LEAD DEV)

Leadership Development in Action is a project-based course in which students integrate higher order thinking, communication, leadership, and management processes to conduct Career and Technical Student Organization (CTSO) leadership projects at the local, state, or national level. Each student will create a vision statement, establish standards and goals, design and implement an action plan and timeline, reflect on accomplishments, and evaluate results. Authentic, independent application through CTSO student-directed programs or projects, internship, community-based study, or in-depth laboratory experience is required. Research and development, interdisciplinary projects, and/or collaboration with post-secondary faculty, community agencies, or organizations are appropriate approaches. Instructor must be a current chapter advisor of an Indiana-recognized CTSO. State and national membership in an Indiana recognized CTSO is required of any student enrolled in this course. Service learning experiences are highly recommended. Achievement of applicable Career and Technical Education (CTE), academic, and employability standards will be documented through a required student portfolio.

- 2 trimesters, Grades 10 – 12; Maximum of 6 credits
- Prerequisites: Permission of instructor through an application process.
- Counts as a Directed Elective or Elective for all diplomas

VETERINARY CAREERS I

5211 (VET CRS I)

Veterinary Careers I is a lab intensive course that introduces students to animal care and veterinary medicine. Through classroom and field experiences, students will attain the necessary skills to demonstrate standard protocols that are used in veterinary careers. This course also provides students with the knowledge, attitudes, and skills needed to make the transition from high school, to post-secondary opportunities, and to work in a variety of health science careers. Students are encouraged to focus on self-analysis to aid in their career selection. Job seeking and job maintenance skills, personal management skills, and completion of the application process for admission into a post-secondary program are also areas of focus. Participation in HOSA or FFA encourages development of leadership, communication, and career related skills, and opportunities for community service.

- 2 trimesters, Grades 11 – 12
- Recommended Prerequisites: Animal Science and/or Advanced Life Science: Animals
- Counts as a Directed Elective or Elective for all diplomas

SUPERVISED AGRICULTURAL EXPERIENCE

5228 (SAE)

Supervised Agricultural Experience (SAE) is designed to provide students with opportunities to gain experience in the agriculture field(s) in which they are interested. Students will experience and apply what is learned in the classroom, laboratory and training site to real-life situations with a standards-based plan for learning. Students work closely with their agriculture teacher(s), parents and/or employers to get the most out of their SAE program. This course can be offered each year as well as during the summer session. Curriculum content and competencies need to be varied so that school year and summer session experiences are not duplicative.

- 1 trimester, Grades 10 – 12
- Offered over the summer or as an Independent Study during the year (Apply through instructor)
- Prerequisite: Principles of Agriculture and Instructor Approval
- This course can be taken for more than one trimester or summer session

AGRICULTURE POWER, STRUCTURE AND TECHNOLOGY/AGRI 106 IVY TECH

5088 (AG POW)

Agriculture Power, Structure and Technology is a two trimester, lab intensive course in which students develop an understanding of basic principles of tool selection, operation, maintenance, and management of agricultural equipment in concert with the utilization of technology. Topics covered include: safety, problem-solving/troubleshooting, electricity, plumbing, concrete, carpentry, metal technology, engines, emerging technologies, leadership development, supervised agricultural experience, and career opportunities in the area of agriculture power, structure, and technology.

- 2 trimesters, Grades 10 – 12
- Prerequisite: Principles of Agriculture
- Counts as a Directed Elective or Elective for all diplomas

AGRICULTURE STRUCTURES, FABRICATION AND DESIGN

7112 (AG ST FAB DES)

Agricultural Structures Fabrication and Design is a two trimester course that focuses on metal work, and agricultural structures. This course will allow students to develop skills in welding and metalworking, construction, fabrication, machine components and design while incorporating the engineering design process. Students will also cover safety topics for each area while demonstrating appropriate health and safety standards.

- 2 trimesters, Grades 11 – 12
- Prerequisite: Agriculture Power, Structure and Technology
- Counts as a Directed Elective or Elective for all diplomas

AGRICULTURE MECHANIZATION AND TECHNOLOGY CAPSTONE

7228 (AG MECH CAP)

The Agriculture Mechanization and Technology Capstone course builds upon the knowledge and skills developed in the Principles, Ag Power, Structures and Technology, Agricultural Structures Fabrication and Design courses by developing advanced skills that students can apply to the field. Students enrolled in this course will participate in lab activities involving agricultural equipment such as fueled power engines, electrical motors, pneumatic and hydraulic systems, etc. Students will be instructed on the operation, maintenance, repair, engineering and design of the agricultural mechanics and technology systems. As a capstone course, students should have the opportunity to apply their knowledge and use skills through an intensive work-based learning experience.

- 2 trimesters, Grade 12
- Prerequisite: Agriculture Structures, Fabrication and Design
- Counts as a Directed Elective or Elective for all diplomas

AGRICULTURAL RESEARCH CAPSTONE

7262 (AG RES CAP)

Agricultural Research Capstone course includes extended laboratory, field, and literature investigations in one or more specialized agricultural science disciplines, such as animal, plant, food, natural resources, biotechnology, engineering, etc. Students enrolled in this course will apply scientific applications, concepts, principles, and design process to solve complex, real-world issues in agriculture. Students will become familiar with laboratory procedures used in an educational, research, or industrial setting. Students will complete an end-of-course project and presentation, such as a scientific research paper, agriscience fair project, or some other suitable presentation of their findings.

- 2 trimesters, Grade 12
- Prerequisite: Advanced Life Science: Animals or Plants and Soils
- Counts as a Directed Elective or Elective for all diplomas

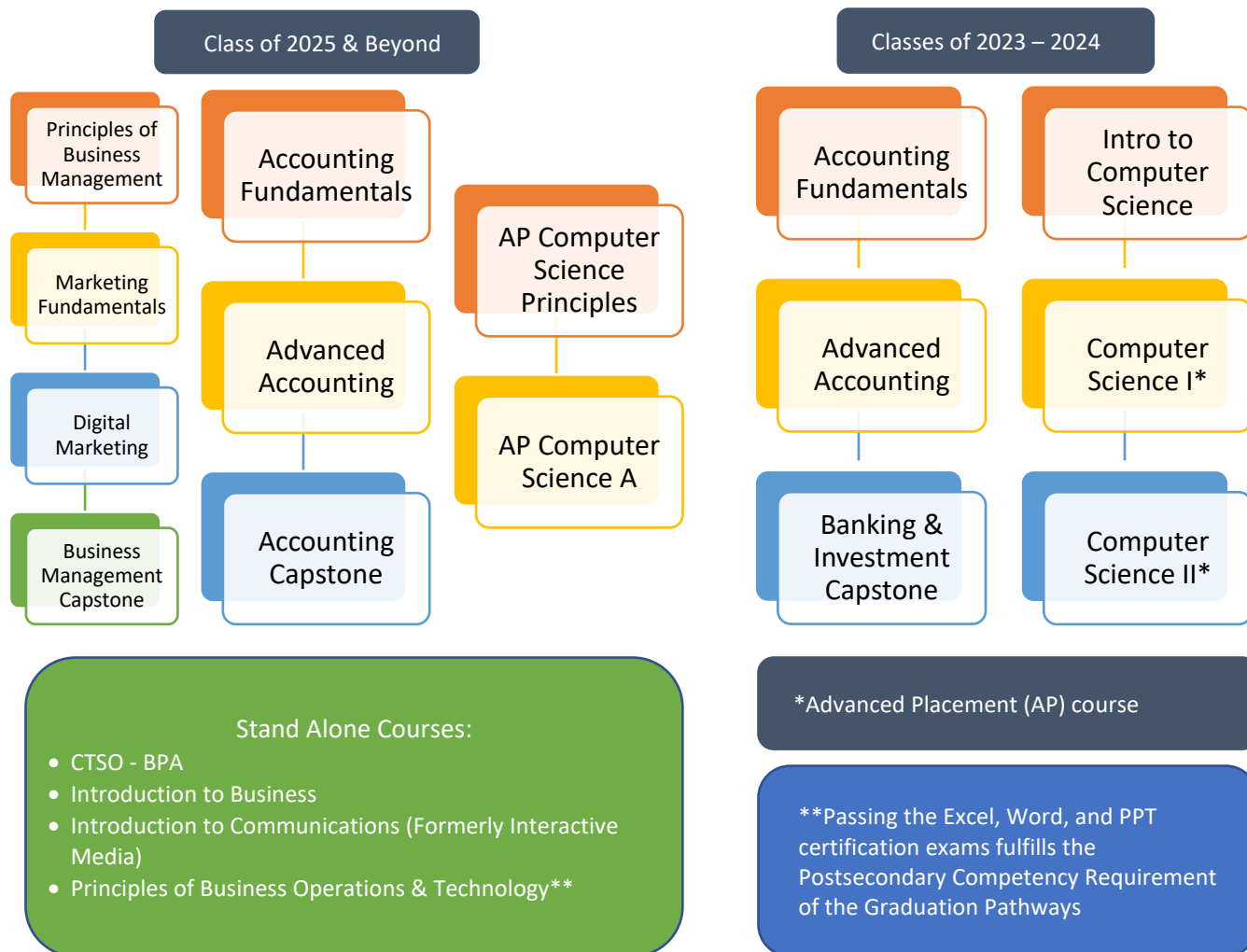
ADVANCED LIFE SCIENCE, PLANTS AND SOILS/AGRI 109 IVY TECH

5074 (ALS PLT/SI)

Advanced Life Science: Plants and Soils is a two trimester course that provides students with opportunities to participate in a variety of activities including laboratory work. 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.

- 2 trimesters, Grades 11 – 12
- Prerequisite: Plant and Soil Science
- Counts as a Directed Elective or Elective for all diplomas
- Fulfills a science course requirement for all diplomas
- Fulfill a physical science requirement for General Diploma

BUSINESS EDUCATION



INTRODUCTION TO BUSINESS

4518 (INTO BUSS)

Introduction to Business introduces students to the world of business, including the concepts, functions, and skills required for meeting the challenges of operating a business in the twenty-first century on a local, national, and/or international scale. The course covers business management, entrepreneurship, marketing fundamentals, and business ethics and law. The course develops business vocabulary and provides an overview of business and the role that business plays in economic, social, and political environments.

- 1 trimester, Grades 9-12
- Due to content overlap, students should not take Principles of Business Management and Intro to Business
- Counts as a Directed Elective or Elective for all diplomas

PRINCIPLES OF BUSINESS MANAGEMENT

4562 PRIN BUS

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

- 2 trimesters, Grades 9 – 12
- Due to content overlap, students should not take Principles of Business Management and Intro to Business
- Counts as a directed elective or elective for all diplomas

COMPUTER SCIENCE I

4801 (COM SCI I)

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

- 2 trimesters, Grades 10-12
- Prerequisites: Introduction to Computer Science, pass Algebra I with a B and 3.0 GPA, or instructor approval
- Fulfills a science course requirement for all diplomas
- This is an Advanced Placement (AP) course. Participation on the Advanced Placement exam is expected.
- Counts as a Directed Elective or Elective for all diplomas
- Qualifies as a quantitative reasoning course

COMPUTER SCIENCE II

5236 (CS II PROG)

Computer Science II explores and builds skills in programming and a basic understanding of the fundamentals of procedural program development using structured, modular concepts. Coursework emphasizes logical program design involving user-defined functions and standard structure elements. Discussions will include the role of data types, variables, structures, addressable memory locations, arrays and pointers, and data file access methods. An emphasis on logical program design using a modular approach, which involves task-oriented program functions.

- 2 trimesters, Grades 11-12
- Prerequisites: Computer Science I
- Fulfills a science course requirement for all diplomas
- This is an Advanced Placement (AP) course. Participation on the Advanced Placement exam is expected.
- Counts as a Directed Elective or Elective for all diplomas; Qualifies as a quantitative reasoning course

ACCOUNTING FUNDAMENTALS

4524 INTO ACCT

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

- 2 trimesters, Grades 10 – 12
- Counts as a directed elective or elective all diplomas

ADVANCED ACCOUNTING

4522 (ADV ACC)

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

- 2 trimesters, Grades 11-12
- Prerequisite: Accounting I with a grade of “C” or higher
- Counts as a Directed Elective or Elective for all diplomas; Qualifies as a quantitative reasoning course

BANKING AND INVESTMENT CAPSTONE

BANK INVEST (5258)

Banking and Investment Capstone addresses the need of schools in areas that have workforce demand in the finance industry. It analyzes and synthesizes high-level skills needed for a multitude of career in the banking and investment industry. Students learn banking, investments, and other finance fundamentals and applications related to financial institutions, business and personal financial services, investment and securities, risk management products, and corporate finance. The course provides students with Work-based learning experiences to acquire and apply knowledge and skills in one or more careers in the industry.

- 2 trimesters, Grade 12
- Prerequisites: Advanced Accounting
- Counts as a Directed Elective or Elective for all diplomas

MARKETING FUNDAMENTALS

5914 (PRN MRKT)

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

- 2 trimesters, Grades 10 – 12
- Prerequisite: Principles of Business Management

DIGITAL MARKETING

7145 (DGTL MARK)

Digital Marketing introduces the world of e-commerce and digital marketing media. The course covers how to integrate digital media and e-commerce into organizational and marketing strategy. Students will explore e-commerce applications and the most popular digital marketing tactics and tools. Emphasizes familiarity with executing digital media, understanding the marketing objectives that digital media can help organizations achieve, and establishing and enhancing an organization's digital marketing presence.

- 2 trimesters, Grades 11 – 12
- Prerequisite: Marketing Fundamentals
- Counts as a Directed Elective or Elective for all diplomas

ACCOUNTING CAPSTONE

7252 ACCT CAP

The Accounting Capstone course will emphasize Managerial Accounting concepts and Income Tax Accounting for individuals and sole proprietorships. Topics include general versus cost accounting systems, cost behavior, cost-volume profit analysis, budgeting, standard cost systems, responsibility accounting, incremental analysis, and capital investment analysis. Offers an overview of federal and state income tax law for individuals including taxable income, capital gains and losses, adjustments, standard and itemized deductions, tax credits and appropriate tax forms. When offered for multiple credits per trimester, the Accounting Capstone may be used to provide students the opportunity to participate in an intensive work-based learning experience and/or to complete additional coursework in using spreadsheets to solve accounting cases.

- 2 trimesters, Grade 12
- Prerequisite: Advanced Accounting
- Counts as a Directed Elective or Elective for all diplomas
- Qualifies as a quantitative reasoning course

AP COMPUTER SCIENCE PRINCIPLES

4568 (CPS AP)

The AP Computer Science Principles course is designed to be equivalent to a first-semester introductory college computing course. In this course, students will develop computational thinking skills vital for success across all disciplines, such as using computational tools to analyze and study data and working with large data sets to analyze, visualize, and draw conclusions from trends. The course engages students in the creative aspects of the field by allowing them to develop computational artifacts based on their interests. Students will also develop effective communication and collaboration skills by working individually and collaboratively to solve problems and will discuss and write about the impacts these solutions could have on their community, society, and the world.

- 2 trimesters, Grades 10 – 12
- Prerequisite: Algebra I or Algebra I Honors
- Students are expected to take the Advanced Placement exam in May
- Fulfills a science course requirement for all diplomas
- Counts as an Elective for all diplomas
- Qualifies as a quantitative reasoning course

AP COMPUTER SCIENCE A

4570 (COMP SCI AP)

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

- 2 trimesters, Grades 11 – 12
- Prerequisites: AP Computer Science Principles or Computer Science II and Algebra II (Regular or Honors)
- Counts as an Elective for all diplomas
- Fulfills a science course requirement for all diplomas
- Qualifies as a quantitative reasoning course

CTSO LEADERSHIP DEVELOPMENT IN ACTION: BUSINESS PROFESSIONALS OF AMERICA (BPA)

5237 (LEAD DEV)

Leadership Development in Action is a project-based course in which students integrate higher order thinking, communication, leadership, and management processes to conduct Career and Technical Student Organization (CTSO) leadership projects at the local, state, or national level. Each student will create a vision statement, establish standards and goals, design and implement an action plan and timeline, reflect on accomplishments, and evaluate results. Authentic, independent application through CTSSO student-directed programs or projects, internship, community-based study, or in-depth laboratory experience is required. Research and development, interdisciplinary projects, and/or collaboration with post-secondary faculty, community agencies, or organizations are appropriate approaches. Instructor must be a current chapter advisor of an Indiana-recognized CTSSO. State and national membership in an Indiana recognized CTSSO is required of any student enrolled in this course. Service learning experiences are highly recommended. Achievement of applicable Career and Technical Education (CTE), academic, and employability standards will be documented through a required student portfolio.

- 1 trimester, Grades 10 – 12; Maximum of 6 credits
- **STUDENTS NEED TO BE MEMBER OF THE BPA AND HAVE INSTRUCTOR APPROVAL**
- Counts as a Directed Elective or Elective for all diplomas

INTRODUCTION TO COMMUNICATIONS (FORMERLY INTERACTIVE MEDIA)

4790 (INT COMM)

Introduction to Communications is a course designed to provide a foundational knowledge of identifying and using modern communication to exchange messages and information. This course explores the application of the tools, materials, and techniques used to design, produce, use, and assess systems of communication. Students will produce graphic and electronic media as they apply communication technologies. This course will also explore the various technical processes used to link ideas and people using electronic and graphic media. Major goals of this course include an overview of communication technology; the way it has evolved, how messages are designed and produced, and how people may profit from creating information services and products. Students will explore mass media communication processes including radio and television broadcasting, publishing and printing activities, telecommunication networks, recording services, computer and data processing networks, and other related systems. Students will use the design process to solve design projects in each communication area.

- 2 trimesters, Grades 10 – 12
- Counts as a Directed Elective or Elective for all diplomas

PRINCIPLES OF BUSINESS OPERATIONS AND TECHNOLOGY

7153 (PRIN BUS OP TECH)

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.

- 2 trimesters, Grades 10 – 12
- Passing the Microsoft Word, PowerPoint, and Excel certification exam will fulfill the Postsecondary Competency Requirement for Graduation Pathways
- Counts as a Directed Elective or Elective for all diplomas

ELKHART AREA CAREER CENTER

- The EACC courses are worth 2 credits each trimester. For athletic eligibility, students must pass at least 80% of their credits. So, for most EACC students, they would need to pass two NWHHS course in addition to the EACC course to remain eligible.
- NorthWood students typically attend the morning sessions at EACC. Transportation is provided for these sessions.
- Cosmetology students attend EACC an extra hour per day and must provide their own transportation.
- EACC courses are for the entire school year.
- For more information, visit the EACC website at www.myeacc.org
- Programs are available in the following areas:

Arts & Communication	Engineering, Manufacturing & Technology	Construction & Transportation	Health & Public Safety	Hospitality & Human Services
<ul style="list-style-type: none">• Audio & Video Production• Commercial Photography• Graphic Design	<ul style="list-style-type: none">• Automation & Engineering Technology• 3D Computer Animation• CAD: Computer Aided Drafting• Computer Networking/PC Maintenance• Manufacturing Technology• Mechatronics• Welding Technology	<ul style="list-style-type: none">• Automotive Collision Repair• Automotive Refinishing• Automotive Service Technology• Construction Trades• Diesel Service Technology• Motorcycle/Outdoor Power Technology	<ul style="list-style-type: none">• Cardiology• CSI: Crime Scene Investigation• Dental Health Careers• EMT: Emergency Medical Technician• Firefighting• Medical Assisting• Law Enforcement	<ul style="list-style-type: none">• Cosmetology• Creative Outdoor Management• Culinary Arts• Early Childhood Education• Education Professions• Veterinary Careers

ENGLISH

Freshman Year	Sophomore Year	Junior Year	Senior Year
<ul style="list-style-type: none">English 9 & Themes in Literature<u>Additional Options:</u><ul style="list-style-type: none">Journalism <p>*Course not offered until 2023-2024</p>	<ul style="list-style-type: none">English 10<u>Additional Options:</u><ul style="list-style-type: none">Biblical Literature*Contemporary LiteratureJournalismNovelsStudent Media	<ul style="list-style-type: none">English 11<u>Additional Options:</u><ul style="list-style-type: none">Biblical Literature*CompositionContemporary LiteratureCreative WritingJournalismNovelsStudent Media	<ul style="list-style-type: none">Must take at least one, college-bound should take at least two:<ul style="list-style-type: none">English 12CompositionAdv Comp/ENG103Adv Speech/P155Biblical Literature*Contemporary LiteratureCreative WritingNovelsJournalism (not an English credit)

ENGLISH 9 & THEMES IN LITERATURE

1002 (ENG 9)

1048 (THEMES LIT)

English 9, an integrated English course based on the Indiana Academic Standards for English/Language Arts in Grades 9-10, is a study of language, literature, composition, and oral communication, focusing on literature within an appropriate level of complexity for this grade band. Students use literary interpretation, analysis, comparisons, and evaluation to read and respond to representative works of historical or cultural significance in classic and contemporary literature balanced with nonfiction. Students write responses to literature, expository (informative), narrative, and argumentative/persuasive compositions, and sustained research assignments. Students deliver grade-appropriate oral presentations with attention to audience and purpose and access, analyze, and evaluate online information.

Themes in Literature, a course based on the Indiana Academic Standards for English/Language Arts, is a study of universal themes, such as the journey of the hero, the trials of youth, the search for identity, and other themes appropriate to the level and interests of students. The course may be limited to a few important related themes. Students examine representative works in various genres by authors of diverse eras and nationalities and the way themes may be treated differently in the works because of the cultural context. Students analyze how themes illuminate humanity's struggle to understand the human condition. Course can be offered in conjunction with a composition course, or schools may embed Indiana Academic Standards for English/Language Arts writing standards within curriculum.

- 3 trimesters, Grade 9
- Fulfills an English/Language Arts requirement for all diplomas

LANGUAGE ARTS LAB

1010 (LANG LAB)

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

- 2 trimesters, Grade 9
- Counts as an Elective for all diplomas

ENGLISH 10

1004 (ENG 10)

English 10, an integrated English course based on the Indiana Academic Standards for English/Language Arts in Grades 9-10, is a study of language, literature, composition, and oral communication, focusing on literature with an appropriate level of complexity for this grade band. Students use literary interpretation, analysis, comparisons, and evaluation to read and respond to representative works of historical or cultural significance in classic and contemporary literature balanced with nonfiction. Students write responses to literature, expository (informative) and argumentative/persuasive compositions, and sustained research assignments. Students deliver grade-appropriate oral presentations with attention to audience and purpose and access, analyze, and evaluate online information.

- 2 trimesters each, Grade 10
- Recommended Prerequisite: Pass English 9 & Themes in Literature
- Fulfills an English/Language Arts requirement for all diplomas

CONTEMPORARY LITERATURE

1054 (CONTEM LIT)

Contemporary Literature, a course based on the Indiana Academic Standards for English/Language Arts, is a study of how post-1950s literature from around the world, such as North and South America, Europe and Great Britain, the Middle East, and post-colonial Africa and Asia, addresses contemporary issues. Students examine multiple genres to develop a sense of how particular genres are used today to represent ideas and events. Students analyze different theories and methods of textual criticism especially theories currently popular. Students analyze how the interpretations and themes of contemporary literature read in this course relate to the time period and to historical issues. Course can be offered in conjunction with a composition course, or schools may embed Indiana Academic Standards for English/Language Arts writing standards within curriculum.

- 1 trimester, Grades 10 – 12
- Fulfills an English/Language Arts requirement for all diplomas

NOVELS

1042 (NOVELS)

Novels, a course based on the Indiana Academic Standards for English/Language Arts, is a study of the distinct features of the novel, such as narrative and fictional elements of setting, conflict, climax, and resolution, and may be organized by historical periods, themes, or authors. Students examine novels of a given period, such as Victorian, the Modern Period, or Contemporary Literature, and what distinguishes novels from short stories, epics, romances, biographies, science fiction, and others. Students analyze novels by various important authors from the past and present or sets of novels from a specific era or across several eras. Course can be offered in conjunction with a composition course, or schools may embed Indiana Academic Standards for English/Language Arts writing standards within curriculum.

- 1 trimester, Grades 10-12
- Offered alternating years (2022 – 2023)
- Fulfills an English/Language Arts requirement for all diplomas

BIBLICAL LITERATURE

1022 (BIBLE LIT)

(BIBLE LIT) Biblical Literature, a course based on the Indiana Academic Standards for English/Language Arts, is a study of the Bible, viewed from a literary standpoint, as a source of a wide variety of literary patterns, themes, and conventions. Students examine the different books in relation to the various historical time frames of the books and in relation to related literature as it pertains to Biblical themes. Students read, discuss, and write about Biblical references (allusions) in both classical and modern literature, formation of a canonical Bible, inclusion of apocryphal and heretical writings, oral versus literate transmission of sacred history and doctrine, and questions and problems of interpretation. Course can be offered in conjunction with a composition course, or schools may embed Indiana Academic Standards for English/Language Arts writing standards within curriculum.

- 1 trimester, Grades 10-12
- Offered alternating years (2023 – 2024)
- Fulfills an English/Language Arts requirement for all diplomas

CREATIVE WRITING

1092 (CREAT WRIT)

Creative Writing, a course based on the Indiana Academic Standards for English/Language Arts, 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. Course can be offered in conjunction with a literature course, or schools may embed Indiana Academic Standards for English/Language Arts reading standards within curriculum.

- 1 trimester, Grades 11-12
- Offered alternating years (2022 – 2023)
- Fulfills an English/Language Arts requirement for all diplomas

ENGLISH 11

1006 (ENG 11)

English 11, an integrated English course based on the Indiana Academic Standards for English/Language Arts in Grades 11-12, is a study of language, literature, composition, and oral communication focusing on literature with an appropriate level of complexity for this grade band. Students use literary interpretation, analysis, comparisons, and evaluation to read and respond to representative works of historical or cultural significance appropriate in classic and contemporary literature balanced with nonfiction. Students write narratives, responses to literature, academic essays (e.g. analytical, persuasive, expository, summary), and more sustained research assignments incorporating visual information in the form of pictures, graphs, charts and tables. Students write and deliver grade-appropriate multimedia presentations and access, analyze, and evaluate online information.

- 2 trimesters, Grade 11
- Recommended Prerequisite: Passed English 10
- Fulfills an English/Language Arts requirement for all diplomas

COMPOSITION

1090 (COMP)

Composition, a course based on the Indiana Academic Standards for English/Language Arts, is a study and application of the rhetorical writing strategies of narration, description, exposition, and persuasion. Using the writing process, students demonstrate a command of vocabulary, English language conventions, research and organizational skills, an awareness of the audience, the purpose for writing, and style. Students read classic and contemporary literature or articles and use appropriate works as models for writing. Students write a variety of types of compositions with a focus on fictional narratives, reflective compositions, academic essays, and responses to literature. Course can be offered in conjunction with a literature course, or schools may embed Indiana Academic Standards for English/Language Arts reading standards within curriculum.

- 1 trimester, Grades 11 – 12
- Prerequisite: Earned “B” or better in English 10 or 11 A/B
- Fulfills an English/Language Arts requirement for all diplomas

ENGLISH 12

1008 (ENG 12)

English 12, an integrated English course based on the Indiana Academic Standards for English/Language Arts for Grades 11-12, is a study of language, literature, composition, and oral communication focusing on an exploration of point of view or perspective across a wide variety of genres. Students use literary interpretation, analysis, comparisons, and evaluation to read and respond to representative works of historical or cultural significance in classic and contemporary literature balanced with nonfiction. Students write narratives, responses to literature, academic essays (e.g. analytical, persuasive, expository, summary), and more sustained research assignments incorporating visual information in the form of pictures, graphs, charts, and tables. Students write and deliver grade-appropriate multimedia presentations and access, analyze, and evaluate online information.

- 1 trimester, Grade 12
- Fulfills an English/Language Arts requirement for all diplomas

ADVANCED COMPOSITION/ENG W131 INDIANA UNIVERSITY

1098 (ADV COMP)

Advanced Composition, a course based on the Indiana Academic Standards for English/Language Arts, is a study and application of the rhetorical writing strategies of exposition and persuasion. Students write expository critiques of nonfiction selections, literary criticism of fiction selections, persuasive compositions, and research reports in addition to other appropriate writing tasks. Course can be offered in conjunction with a literature course, or schools may embed Indiana Academic Standards for English/Language Arts reading standards within curriculum.

Students in Dual Credit Composition examine issues in varied disciplinary fields and cultivate reading, writing, and analytic skills. Students summarize arguments, identify the structure of claims, and examine the strength of evidence offered in support of those claims. Through a sequence of analytical responses, students demonstrate not only that they comprehend the argument of experts, but they can also formulate, articulate, and defend claims of their own.

This course offers instruction and practice in the critical reading and writing skills required for college-level work, with an emphasis on written assignments that call for summary, critique, analysis, and arguments based on sources. The purpose of this course is to prepare students for the rigor of writing throughout college. The focus is on scholarly investigation of sources, critical thinking and reading, learning how to recognize and utilize specific writing strategies, skills and fluency. Each unit will include preliminary work and assignments leading to a major essay to conclude. Points will be accumulated from homework, in-class assignments, participation, and final written assignments. Since much work and discussion will be carried on in class, impeccable attendance and assignment submission is imperative.

- 2 trimesters, Grade 12
- Required prerequisite: 2.7 Cumulative GPA; Recommended prerequisite: 3.0 Cumulative GPA
- This is a dual credit course offered through IUSB. Additional fees may apply.
- Fulfills an English/Language Arts requirement for all diplomas

ADVANCED SPEECH AND COMMUNICATION/P155 INDIANA UNIVERSITY

1078 (ADV SPEECH)

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

- 1 trimester, Grade 12
- Prerequisite: Cumulative GPA of 2.7; Recommended prerequisite: 3.0 Cumulative GPA or instructor approval
- This is a dual credit class offered through IUSB. Additional fees may apply.
- Fulfills an English/Language Arts requirement for all diplomas

JOURNALISM

1080 (JRNALISM)

Journalism, a course based on the Indiana Academic Standards for English/Language Arts and the Indiana High School Journalism Standards, is a study of news elements, journalism history, First Amendment law, ethics, fact and opinion, copy editing, news, and features as they apply to print and digital media products. It includes a comparison study of journalistic writing to other types of English writing with practical application of news, features, editorials, reviews, columns, and digital media writing forms. For the second credit: Students continue to develop journalistic writing skills in addition to studying graphic design, advertising, public relations, photojournalism and emerging media development and design. By the end of the trimester, students write, shoot, and design stories for print and digital media products.

- 1 trimester, Grades 9 - 12
- Counts as an Elective for all diplomas

STUDENT MEDIA

1086 (STDNT MEDIA)

Student Media, a course based on the High School Journalism Standards and the Student Media Standards, is the continuation of the study of Journalism. Students demonstrate their ability to do journalistic writing and design for high school media, including school newspapers, yearbooks, and a variety of other media formats. Students follow the ethical principles and legal boundaries that guide scholastic journalism. Students express themselves publicly with meaning and clarity for the purpose of informing, entertaining, or persuading. Students work on high school media staffs so that they may prepare themselves for career paths in journalism, communications, writing, or related fields.

This year long course provides the study and practice in gathering and analyzing information, interviewing, and note taking for writing, editing, and publishing for print in the Logue, NorthWood's state and nationally recognized school yearbook and for posting to the yearbook's social media accounts. Students plan, publish, market, and distribute their school publication. Photoshop and desktop publishing are used to support the curriculum. Involvement in the course does require regular extra-curricular involvement.

- 3 trimesters, Grades 10-12
- Prerequisite: Application and interview process with the instructor
- Counts as a Directed Elective or Elective for all diplomas
- Fulfills the Fine Arts requirement for the Core 40 with Academic Honors.

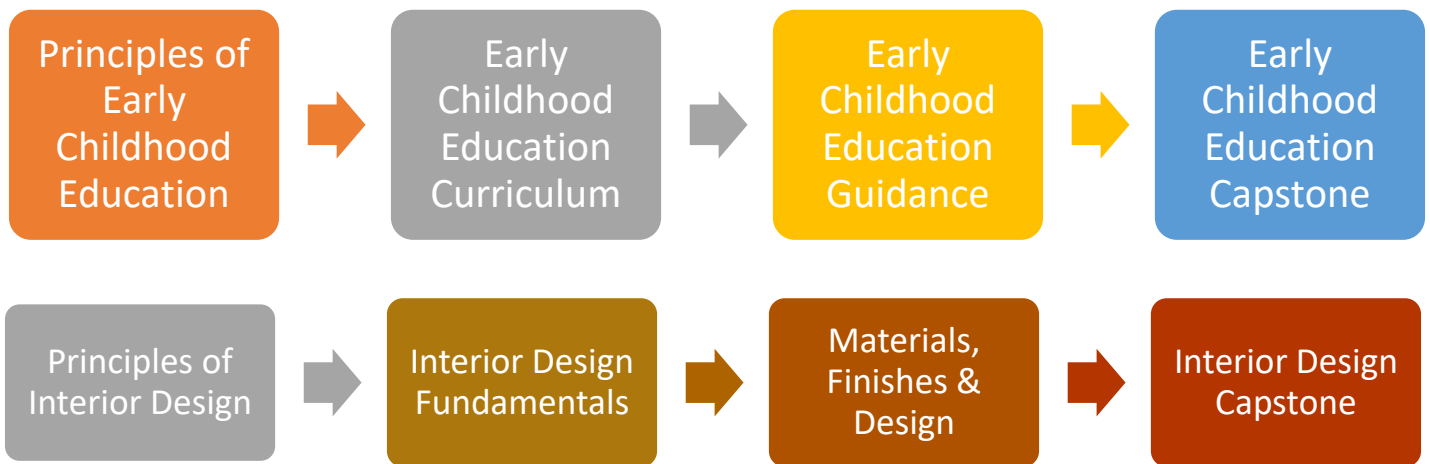
ENGLISH AS A NEW LANGUAGE

1012 (ENL)

English as a New Language, an integrated English course based on the WIDA English Language Development (ELD) Standards, is the study of language, literature, composition and oral communication for English learners (ELs) so that they improve their proficiency in listening, speaking, reading, writing and comprehension of standard English. Students study English vocabulary used in fictional texts and content-area texts, speak and write English so that they can function within the regular school setting and an English-speaking society, and deliver oral presentations appropriate to their respective levels of English proficiency.

- 3 trimesters, Grades 9-12
- Fulfills an English Language Arts requirement for all diplomas: Up to 8 credits accrued can be counted as the required English/Language Arts credits for all diplomas

FAMILY AND CONSUMER SCIENCES



FRESHMAN YEAR	SOPHOMORE YEAR	JUNIOR YEAR	SENIOR YEAR
<ul style="list-style-type: none"> • Interpersonal Relationships • Nutrition & Wellness 	<ul style="list-style-type: none"> • Child Development • Interpersonal Relationships • Nutrition & Wellness 	<ul style="list-style-type: none"> • Adult Roles • Advanced Nutrition & Wellness • Child Development 	<ul style="list-style-type: none"> • Adult Roles • Advanced Nutrition & Wellness • Child Development

INTERPERSONAL RELATIONSHIPS

5364 (INTRP RLT)

Interpersonal Relationships is an introductory course that is especially relevant for students interested in careers that involve interacting with people. It is also valuable for all students as a life foundation and academic enrichment. This course addresses knowledge and skills needed for positive and productive relationships in career, community, and family settings. Major course topics include communication skills; leadership, teamwork, and collaboration; conflict prevention, resolution, and management; building and maintaining relationships; and individual needs and characteristics and their impacts on relationships. A project-based approach that utilizes higher order thinking, communication, leadership, and management processes, and fundamentals to college and career success is recommended in order to integrate these topics into the study of interpersonal relationships. Direct, concrete language arts proficiencies will be applied. Service learning and other authentic applications are strongly recommended. This course provides a foundation for continuing and post-secondary education for all career areas that involve interacting with people both inside and outside of a business/organization, including team members, clients, patients, customers, and the general public.

- 1 trimester, Grades 9-10
- Counts as a Directed Elective or Elective for all diplomas
- Qualifies as one of the F&CS courses a student can take to waive the Health & Wellness graduation requirement. To qualify for the Health and Wellness waiver, a student must take three of the approved courses

NUTRITION AND WELLNESS

5342 (NTRN WLNS)

Nutrition and Wellness is an introductory course valuable for all students as a life foundation and academic enrichment; it is especially relevant for students interested in careers related to nutrition, food, and wellness. This is a nutrition class that introduces students to only the basics of food preparation so they can become self-sufficient in accessing healthy and nutritious foods. Major course topics include nutrition principles and applications; influences on nutrition and wellness; food preparation, safety, and sanitation; and science, technology, and careers in nutrition and wellness. A project-based approach that utilizes higher order thinking, communication, leadership, management processes, and fundamentals to college and career success is recommended in order to integrate these topics into the study of nutrition, food, and wellness. Food preparation experiences are a required component. Direct, concrete mathematics and language arts proficiencies will be applied. This course is the first in a sequence of courses that provide a foundation for continuing and post-secondary education in all career areas related to nutrition, food, and wellness

- 1 trimester, Grades 9-10
- Counts as a Directed Elective or Elective for all diplomas
- Qualifies as one of the F&CS courses a student can take to waive the Health & Wellness graduation requirement. To qualify for the Health and Wellness waiver, a student must take three of the approved courses.

CHILD DEVELOPMENT

5362 (CHLD DEV)

Child Development is an introductory course for all students as a life foundation and academic enrichment; it is especially relevant for students interested in careers that draw on knowledge of children, child development, and nurturing of children. This course addresses issues of child development from conception/prenatal through age 3. It includes the study of prenatal development and birth; growth and development of children; child caregiving and nurturing; and support systems for parents and caregivers. A project-based approach that utilizes higher order thinking, communication, leadership, management processes, and fundamentals to college and career success is recommended in order to integrate these topics into the study of child development. Direct, concrete mathematics and language arts proficiencies will be applied. Authentic applications such as introductory laboratory/field experiences with young children and/or service learning that build knowledge of children, child development, and nurturing of children are strongly recommended. This course provides the foundation for continuing and post-secondary education in all career areas related to children, child development, and nurturing of children.

- 1 trimester, Grades 10-12
- Qualifies as one of the F&CS courses a student can take to waive the Health & Wellness graduation requirement. To qualify for the Health and Wellness waiver, a student must take three of the approved courses
- Counts as a Directed Elective or Elective for all diplomas

ADVANCED NUTRITION AND WELLNESS

5340 (ADV NTRN WEL)

Advanced Nutrition and Wellness is a course which provides an extensive study of nutrition. This course is recommended for all students wanting to improve their nutrition and learn how nutrition affects the body across the lifespan. Advanced Nutrition and Wellness is an especially appropriate course for students interested in careers in the medical field, athletic training and dietetics. This course builds on the foundation established in Nutrition and Wellness, which is a High School Course Titles and Descriptions 2022-2023 286 required prerequisite. This is a project-based course; utilizing higher-order thinking, communication, leadership and management processes. Topics include extensive study of major nutrients, nutritional standards across the lifespan, influences on nutrition/food choices, technological and scientific influences, and career exploration in this field. Laboratory experiences will be utilized to develop food handling and preparation skills; attention will be given to nutrition, food safety and sanitation. This course is the second in a sequence of courses that provide a foundation for continuing and post-secondary education in all career areas related to nutrition, food, and wellness.

- 1 trimester, Grades 11-12
- Counts as a Directed Elective or Elective for all diplomas

ADULT ROLES AND RESPONSIBILITIES

5330 (ADULTROLES)

Adult Roles and Responsibilities is recommended for all students as life foundations and academic enrichment, and as a career sequence course for students with interest in family and community services, personal and family finance, and similar areas. This course builds knowledge, skills, attitudes, and behaviors that students will need as they complete high school and prepare to take the next steps toward adulthood in today's society. The course includes the study of interpersonal standards, lifespan roles and responsibilities, individual and family resource management, and financial responsibility and resources. A project-based approach that utilizes higher order thinking, communication, leadership, management processes, and fundamentals to college and career success is recommended in order to integrate these topics into the study of adult roles and responsibilities. Direct, concrete mathematics and language arts proficiencies will be applied. Service learning and other authentic applications are strongly recommended. This course provides the foundation for continuing and post-secondary education in all career areas related to individual and family life.

- 1 trimester, Grades 11-12
- Qualifies as one of the F&CS courses a student can take to waive the Health & Wellness graduation requirement, in place of either Human Development and Wellness or Interpersonal Relationships. To qualify for the Health and Wellness waiver, a student must take three of the approved courses
- Counts as a Directed Elective or Elective for all diplomas

PRINCIPLES OF EARLY CHILDHOOD EDUCATION

7160 (PRIN EAR CH ED)

This course provides students with an overview of skills and strategies necessary to successfully complete a certificate. Additionally, it provides an overview of the history, theory, and foundations of early childhood education as well as exposure to types of programs, curricula and services available to young children. This course also examines basic principles of child development, Developmentally Appropriate Practices (DAP), importance of family, licensing, and elements of quality care of young children with an emphasis on the learning environment related to health, safety, and nutrition. Students may be required to complete observations and field experiences with children as related to this course.

- 2 trimesters, Grades 9 – 12
- Counts as a Directed Elective or Elective for all diplomas

EARLY CHILDHOOD EDUCATION CURRICULUM

7158 (EAR CHD ED CUR)

Early Childhood Education Curriculum examines developmentally appropriate environments and activities in various childcare settings while exploring the varying developmental levels and cultural backgrounds of children. Students may be required to complete observations and field experiences with children as related to this course.

- 2 trimesters, Grades 10 – 12
- Prerequisite: Principles of Early Childhood Education
- Counts as Directed Elective or Elective for all diplomas

EARLY CHILDHOOD EDUCATION GUIDANCE

7159 (EAR CHD ED GD)

This course allows students to analyze developmentally appropriate guidance, theory and implementation for various early care and education settings. It also provides a basic understanding of the anti-bias/multicultural emphasis in the field of early childhood. Students may be required to complete observations and field experiences with children as related to this course.

- 2 trimesters, Grades 11 – 12
- Prerequisite: Early Childhood Education Curriculum
- Counts as a Directed Elective or Elective for all diplomas

EARLY CHILDHOOD EDUCATION CAPSTONE

7259 (ERLY CHILD CAP)

This course will prepare students to complete the application, CDA exam, and verification process for the Child Development Associate (CDA) credential. Students may also study the physical, social, emotional, cognitive, and moral development of children from conception to age twelve. Theories of child development, biological and environmental foundations, prenatal development, the birth process, and the newborn baby will be discussed. Additionally, students will explore the aspects of early literacy skill development in young children from birth through third grade. Students will explore techniques, technological tools and other learning opportunities that encourage positive attitudes in children regarding listening, speaking, reading and writing activities. In the course, students will research, examine and explore the use of observation in screening and assessment to promote healthy literacy development in early childhood education. Finally, students will be provided an introduction to caring for each exceptional child. This includes theories and practices for producing optimal developmental growth. Students may be required to complete observations and field experiences with children as related to this course.

- 2 trimesters, Grade 12
- Prerequisite: Early Childhood Education Guidance
- Counts as a Directed Elective or Elective for all diplomas

PRINCIPLES OF INTERIOR DESIGN

7132 (PRIN INT DES)

Principles of Interior Design introduces students to fundamental design theory and color dynamics as applied to compositional design. Investigations into design theory and color dynamics will provide experiences in applying design theory to three-dimensional concepts, human factors and the psychology and social influences of space. These experiences will develop student's skills in creative problem solving, peer evaluation, and presentation skills.

- 2 trimesters, Grades 9 – 12
- Counts as a Directed Elective or Elective for all diplomas

INTERIOR DESIGN FUNDAMENTALS

7127 (INT DES FUN)

Interior Design Fundamentals provides students with an overview of the field of interior (environmental) design, including an understanding of fundamental construction knowledge and skills needed in the field. Exercises include small scale space analysis and functional planning based on user needs, furniture arrangement and selection, materials and finishes considerations and presentation techniques. Students will also learn basics regarding building practices, building structures, residential construction techniques, building materials and plan reading. Includes building codes, sustainable design practices, and the preparation of site and construction plans, elevations, sections, three-dimensional drawings details and hand renderings as they relate to construction and presentation drawings.

- 2 trimesters, Grades 10 – 12
- Prerequisite: Principles of Interior Design
- Counts as a Directed Elective or Elective for all diplomas

MATERIALS, FINISHES AND DESIGN

7128 (MAT FIN DES)

Materials, Finishes, and Design examines the physical properties and characteristics of furniture, materials, finishes, and architectural detailing. The course includes an intensive study of textiles, including fiber sources, identification and classification to finish and sustainable qualities. Students will apply textile knowledge to interior textile fabrications including window treatments, upholstery, carpet and wall coverings. Content addresses environmental issues and problems in specifying, estimating, and installing these materials.

- 2 trimesters, Grades 11 – 12
- Prerequisite: Interior Design and Fundamentals
- Counts as a Directed Elective or Elective for all diplomas

INTERIOR DESIGN CAPSTONE

7248 (INT DES CAP)

The Interior Design Capstone course is designed to provide students a chance to extend their knowledge and skills through additional course work and a work-based learning experience.

- 2 trimesters, Grade 12
- Prerequisite: Materials, Finishes and Design
- Counts as a Directed Elective or Elective for all diplomas

FINE ARTS: INSTRUMENTAL MUSIC

Band

Stand Alone Course:

- Dance Performance

Music Theory*

* Prerequisite: Pass Band or a Choral Ensembles class or by teacher approval

ADVANCED CONCERT BAND – BRASS, PERCUSSION, OR WOODWINDS

4170 (ADV BAND)

Advanced Concert Band is based on the Indiana Academic Standards for High School Instrumental Music. This course provides students with a balanced comprehensive study of music through the concert band, which develops skills in the psychomotor, cognitive, and affective domains. 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 historically significant styles of literature, and integration of other applicable disciplines. Experiences include improvising, conducting, playing by ear, and sight-reading. Students develop the ability to understand and convey the composer's intent in performance of music. Time outside of the school day may be scheduled for rehearsals and performances. A limited number of public performances may serve as a culmination of daily rehearsal and musical goals. Students are required to participate in performance opportunities outside of the school day that support and extend learning in the classroom.

- 3 trimesters, Grades 9-12
- Prerequisite: Must earn a passing grade or have instructor approval to continue in the program
- Counts as a Directed Elective or Elective for all diplomas
- Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma

DANCE PERFORMANCE: BALLET, MODERN, JAZZ, OR ETHNIC-FOLK

4146 (DNC PERF)

Dance Performance is based on the Indiana Academic Standards for Dance. Sequential and systematic learning experiences are provided in the specific genre offered, whether it is Ballet, Modern, Jazz, or Ethnic-Folk. Activities utilize a wide variety of materials and experiences and are designed to develop techniques appropriate within the genre, including individual and group instruction in performance repertoire and skills. Students develop the ability to express their thoughts, perceptions, feelings, and images through movement. The performance class provides opportunities for students to experience degrees of physical prowess, technique, flexibility, and the study of dance performance as an artistic discipline and as a form of artistic communication. Students describe, analyze, interpret, and judge live and recorded dance performances of professional dancers and companies in the genre. They also become aware of the career opportunities in dance.

- 1 trimester, Grades 9-12
- Selection for this course is based on audition and participation in the Summer Band program.
 - Students in Dance Performance must participate in the Summer Band program to prepare for Fall marching activities and performances
- Counts as a Directed Elective or Elective for all diplomas
- Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma

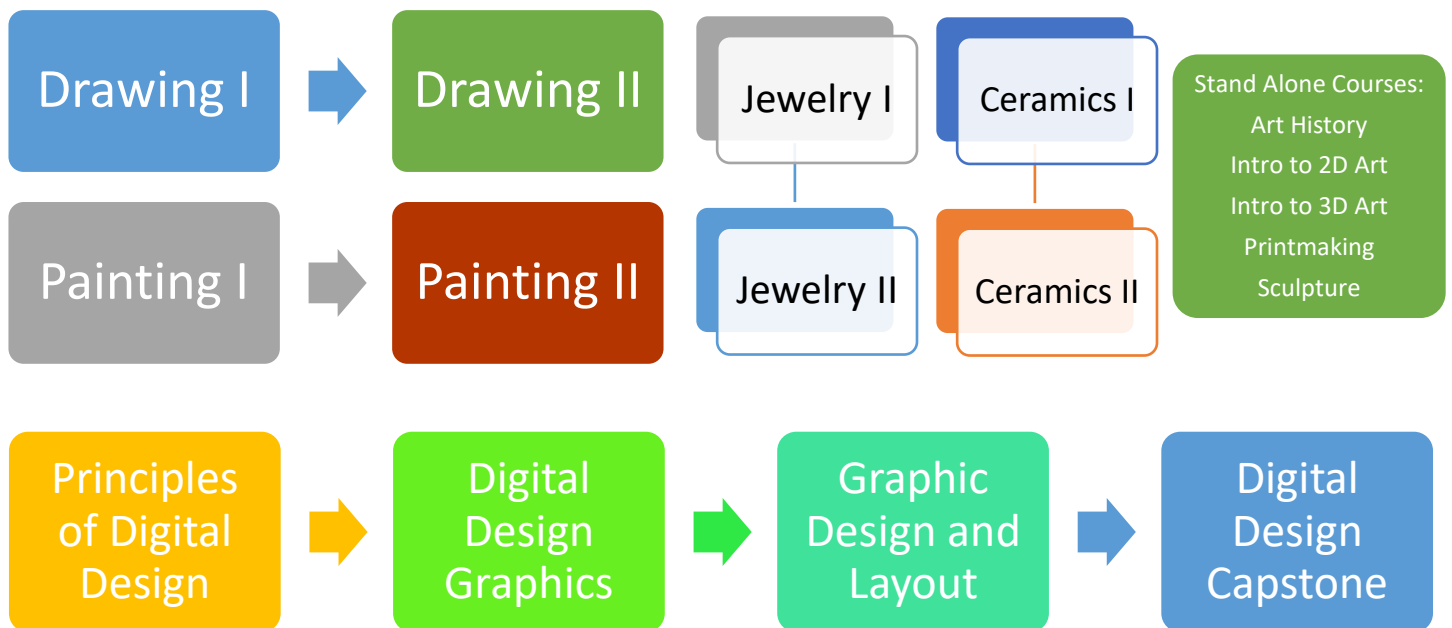
MUSIC THEORY AND COMPOSITION

4208 (MUS THEORY)

Music Theory and Composition is based on the Indiana Academic Standards for Music and standards for this specific course. Students develop skills in the analysis of music and theoretical concepts. Students develop ear training and dictation skills, compose works that illustrate mastered concepts, understand harmonic structures and analysis, understand modes and scales, study a wide variety of musical styles, study traditional and nontraditional music notation and sound sources as tools for musical composition, and receive detailed instruction in other basic elements of music.

- 1 trimester, Grades 10-12
- Prerequisite: Pass Band or a Choral Ensembles class or by teacher approval
- Counts as a Directed Elective or Elective for all diplomas
- Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma

FINE ARTS – VISUAL ARTS



INTRODUCTION TO TWO-DIMENSIONAL ART

4000 (2D ART)

Introduction to Two-Dimensional Art is a course based on the Indiana Academic Standards for Visual Art. Students taking this course engage in sequential learning experiences that encompass art history, art criticism, aesthetics, production, and integrated studies and lead to the creation of portfolio quality works. Students explore historical and cultural background and connections; analyze, interpret, theorize, and make informed judgments about artwork and the nature of art; create two-dimensional works of art, reflect upon the outcomes, and revise their work; relate art to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills. They identify ways to utilize and support art museums, galleries, studios, and community resources.

- 1 trimester, Grades 9-12
- Counts as a Directed Elective or Elective for all diplomas
- Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma

INTRODUCTION TO THREE-DIMENSIONAL ART

4002 (3D ART)

Introduction to Three-Dimensional Art is a course based on the Indiana Academic Standards for Visual Art. Students taking this course engage in sequential learning experiences that encompass art history, art criticism, aesthetics, production, and integrated studies and lead to High School Course Titles and Descriptions 2022-2023 99 the creation of portfolio quality works. Students explore historical and cultural background and connections; analyze, interpret, theorize, and make informed judgments about artwork and the nature of art; create three-dimensional works of art, reflect upon the outcomes, and revise their work; relate art to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills. They identify ways to utilize and support art museums, galleries, studios, and community resources.

- 1 trimester, Grades 9-12
- Counts as a Directed Elective or Elective for all diplomas
- Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma

CERAMICS I

4040 (CERAMICS)

Ceramics is a course based on the Indiana Academic Standards for Visual Art. Students in ceramics engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production and lead to the creation of portfolio quality works. Students create works of art in clay utilizing the processes of hand building, molds, wheel throwing, slip and glaze techniques, and the firing processes. They reflect upon and refine their work; explore cultural and historical connections; analyze, interpret, theorize, and make informed judgments about artwork and the nature of art; relate art to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills. Students utilize the resources of art museums, galleries, and studios, and identify art-related careers.

- 1 trimester, Grades 9-12
- Counts as a Directed Elective or Elective for all diplomas
- Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma

CERAMICS II

4040 (CERAMICS)

This course will reinforce and expand the skills learned on Ceramics I with a greater emphasis placed on larger and more complex thrown and complex hand built projects. Students may be required to buy additional materials not included in fee.

- 1 trimester, Grades 10-12
- Prerequisite: Ceramics I with grade of “B-” or better.
- Counts as a Directed Elective or Elective for all diplomas
- Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma

ART HISTORY

4024 (ART HIST)

Art History is a course based on the Indiana Academic Standards for Visual Art. Students taking Art History engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production. Students study works of art and artifacts from world cultures, engage in historically relevant studio activities; utilize research skills to discover social, political, economic, technological, environmental, and historical trends and connections; analyze, interpret, theorize, and make informed judgments about artwork and the nature of art; relate art to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills. Students utilize the resources of art museums, galleries, and studios, and identify art-related careers.

- 1 trimester, Grades 9-12
- Counts as a Directed Elective or Elective for all diplomas
- Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma

JEWELRY I

4042 (JWLRY)

Jewelry is a course based on the Indiana Academic Standards for Visual Art. Students in Jewelry engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production and lead to the creation of portfolio quality works. Students create works of jewelry design and fabrication techniques including, sawing, piercing, filing, and soldering. Students will also create jewelry designs with fiber arts, macrame, and beadwork. They reflect upon and refine their work; explore cultural and historical connections; analyze, interpret, theorize, and make informed judgments about artwork and the nature of art; relate art to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills. Students utilize the resources of art museums, galleries, and studios, and identify art-related careers.

- 1 trimester, Grades 9-12
- Counts as a Directed Elective or Elective for all diplomas
- Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma

JEWELRY II

4042 (JWLRY)

This course involves the design and fabrication of individual pieces made from brass, copper and silver. Students will explore elements of history, design and critique as they learn soldering, forging and stone setting techniques.

- 1 trimester, Grades 10-12
- Prerequisite: Jewelry I with grade of “B-” or better.
- Counts as a Directed Elective or Elective for all diplomas
- Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma

DRAWING I

4060 (DRAWING)

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

- 1 trimester, Grades 9-12
- Recommended Prerequisite: Intro to 2D Art with a B- or better
- Counts as a Directed Elective or Elective for all diplomas
- Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma

DRAWING II

4060 (DRAWING)

This course will allow students to explore a wider variety of drawing styles and media , including still life and life drawing, with emphasis placed on development of personal styles, and portfolios.

- 1 trimester, Grades 10-12
- Prerequisite: Drawing I with grade of “B-” or better
- Counts as a Directed Elective or Elective for all diplomas
- Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma

PAINTING I

4064 (PAINTING)

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

- 1 trimester, Grades 9-12
- Recommended Prerequisite: Intro to 2D Art with Grade of “B-” or better
- Counts as a Directed Elective or Elective for all diplomas
- Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma

PAINTING II

4064 (PAINTING)

This course will reinforce skills learned in Painting I with emphasis placed on developing a personal style and portfolio. Material covered will include studio painting of still life, the human figure and outdoor landscapes. Students may be required to purchase additional materials depending on the project.

- 1 trimester, Grades 10-12
- Prerequisite: Painting I with grade of “B-” or better
- Counts as a Directed Elective or Elective for all diplomas
- Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma

PRINTMAKING

4066 (PRNTMKG)

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

- 1 trimester, Grades 9-12
- Recommended Prerequisite: Intro to 2D Art with grade of “B-” or better
- Counts as a Directed Elective or Elective for all diplomas
- Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma

PRINCIPLES OF DIGITAL DESIGN

7140 (PRIN DIG DES)

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.

- 2 trimesters, Grades 10 – 12
- Counts as a Directed Elective or Elective for all diplomas

DIGITAL DESIGN GRAPHICS

7141 (DIG DES GRAPH)

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.

- 2 trimesters, Grades 10 – 12
- Prerequisite: Principles of Digital Design
- Counts as a Directed Elective or Elective for all diplomas

GRAPHIC DESIGN AND LAYOUT

5550 (GRAPH DES LT)

Graphic Design and Layout teaches design process and the proper and creative use of type as a means to develop effective communications for global, corporate and social application. Students will create samples for a portfolio, which may include elements or comprehensive projects in logo, stationery, posters, newspaper, magazine, billboard, and interface design.

- 2 trimesters, Grades 11 – 12
- Prerequisite: Digital Design Graphics
- Counts as a Directed Elective or Elective for all diplomas

DIGITAL DESIGN CAPSTONE

7246 (DIG DES CAP)

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.

- 2 trimesters, Grade 12
- Prerequisite: Graphic Design and Layout
- Counts as a Directed Elective or Elective for all diplomas

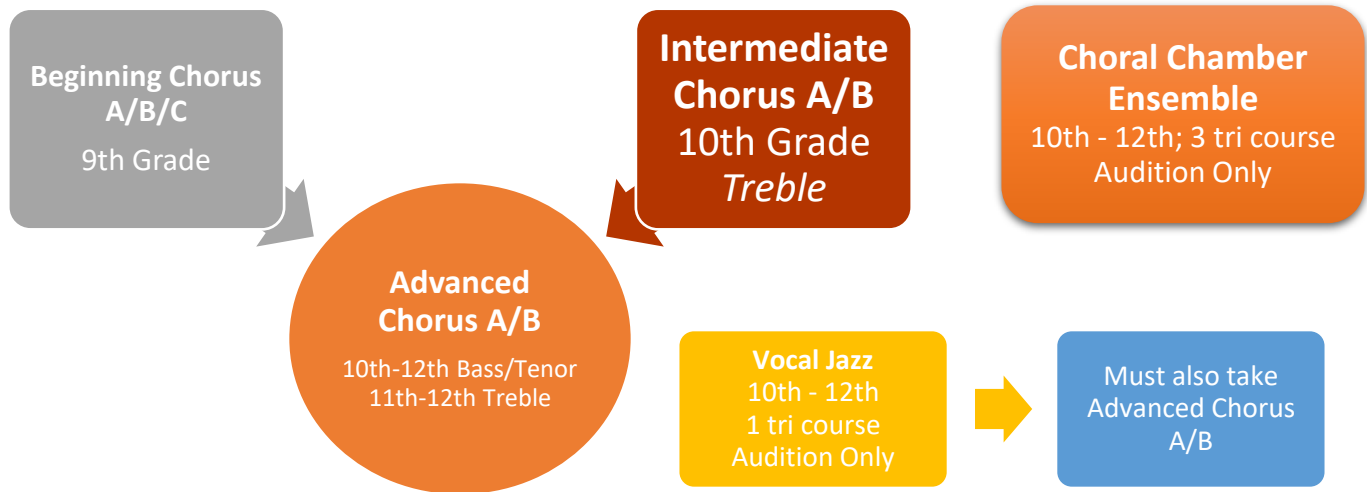
SCULPTURE

4044 (SCULTP)

Sculpture is a course based on the Indiana Academic Standards for Visual Art. Students in sculpture engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production. Using materials such as plaster, clay, metal, paper, wax, and plastic, students create portfolio quality works. Students at this level produce works for their portfolios that demonstrate a sincere desire to explore a variety of ideas and problems. They create realistic and abstract sculptures utilizing subtractive and additive processes of carving, modeling, construction, and assembling. They reflect upon and refine their work; explore cultural and historical connections; analyze, interpret, theorize, and make informed judgments about artwork and the nature of art; relate art to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills. Students utilize the resources of art museums, galleries, and studios, and identify art-related careers.

- 1 trimester, Grades 9 – 12
- Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma
- Counts as a Directed Elective or Elective for all diplomas

FINE ARTS: VOCAL MUSIC



BEGINNING CHORUS

4182 (BEG CHOR)

Beginning Chorus is based on the Indiana Academic Standards for High School Choral Music. Students taking Beginning Chorus develop musicianship and specific performance skills through ensemble and solo singing. This class includes the study of quality repertoire in the diverse styles of choral literature appropriate in difficulty and range for the students. Chorus classes provide opportunities for performing, creating, and responding to music. Students develop the ability to understand and convey the composer's intent in performance of music. Time outside of the school day may be scheduled for rehearsals and performances. A limited number of public performances may serve as a culmination of daily rehearsal and musical goals. Students are required to participate in performance opportunities outside of the school day that support and extend learning in the classroom.

- 3 trimesters, Grade 9
- Counts as a Directed Elective or Elective for all diplomas
- Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma

VOCAL JAZZ

4184 (VOC JAZZ)

Vocal Jazz is based on the Indiana Academic Standards for High School Choral Music. Students in this course develop musicianship and specific performance skills through group and individual settings for the study and performance of varied styles of vocal jazz. Instruction includes the study of the history and formative and stylistic elements of jazz. Students develop their creative skills through improvisation, composition, arranging, performing, listening, and analyzing. Time outside of the school day may be scheduled for rehearsals and performances. A limited number of public performances may serve as a culmination of daily rehearsal and musical goals. Students are required to participate in performance opportunities outside of the school day that support and extend learning in the classroom.

- 1 trimester, Grades 10-12
- Students must audition and enroll in Advanced Chorus A/B
- Counts as a Directed Elective or Elective for all diplomas
- Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma

INTERMEDIATE CHORUS

4186 (INT CHOR)

Intermediate Chorus is based on the Indiana Academic Standards for High School Choral Music. Students taking Intermediate Chorus develop musicianship and specific performance skills through ensemble and solo singing. This class includes the study of quality repertoire in the diverse styles of choral literature appropriate in difficulty and range for the students. Chorus classes provide opportunities for performing, creating, and responding to music. Students develop the ability to understand and convey the composer's intent in performance of music. Time outside of the school day may be scheduled for rehearsals and performances. A limited number of public performances may serve as a culmination of daily rehearsal and musical goals. Students are required to participate in performance opportunities outside of the school day that support and extend learning in the classroom.

- 2 trimesters, Grade 10 Treble
- Counts as a Directed Elective or Elective for all diplomas
- Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma

ADVANCED CHORUS

4188 (ADV CHOR)

Advanced Chorus is based on the Indiana Academic Standards for High School Choral Music. Students taking Advanced Chorus develop musicianship and specific performance skills through ensemble and solo singing. This class includes the study of quality repertoire in the diverse styles of choral literature appropriate in difficulty and range for the students. Chorus classes provide opportunities for performing, creating, and responding to music. Students develop the ability to understand and convey the composer's intent in performance of music. Time outside of the school day may be scheduled for rehearsals and performances. A limited number of public performances may serve as a culmination of daily rehearsal and musical goals. Students are required to participate in performance opportunities outside of the school day that support and extend learning in the classroom.

- 2 trimesters, Grades 10-12
- Students must receive instructor approval to enroll in course
- Counts as a Directed Elective or Elective for all diplomas
- Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma

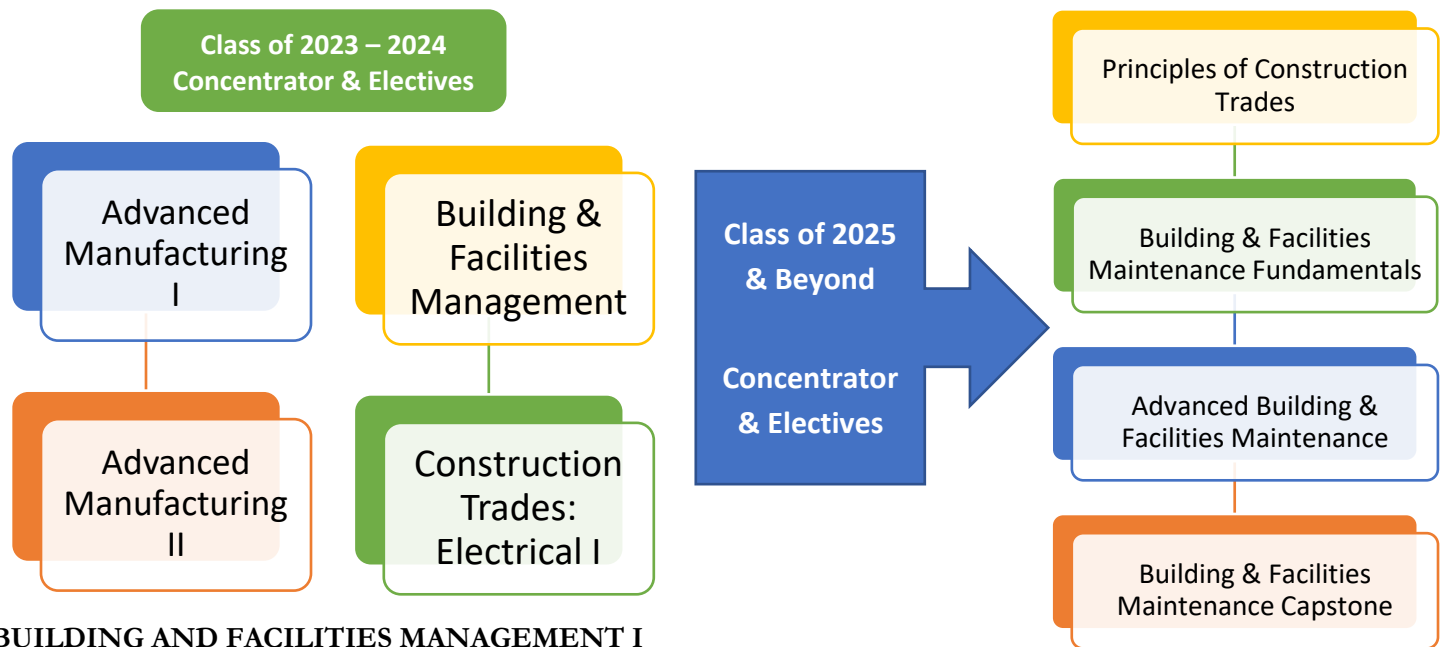
CHORAL CHAMBER ENSEMBLE

4180 (CHRL ENSEM)

Choral Chamber Ensemble is based on the Indiana Academic Standards for High School Choral Music. Student musicianship and specific performance skills in this course are enhanced through specialized small group instruction. The activities expand the repertoire of a specific genre. Chamber ensemble classes provide instruction in creating, performing, listening to, and analyzing music in addition to focusing on specific subject matter. Students develop the ability to understand and convey the composer's intent in performance of music. Time outside of the school day may be scheduled for rehearsals and performances. A limited number of public performances may serve as a culmination of daily rehearsal and musical goals. Students are required to participate in performance opportunities outside of the school day that support and extend learning in the classroom.

- 3 trimesters, Grades 10-12
- Students must audition
- Counts as a Directed Elective or Elective for all diplomas
- Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma

INDUSTRIAL TECHNOLOGY



BUILDING AND FACILITIES MANAGEMENT I

5592 (BF MGMT I)

Building and Facilities Management I is an instructional program that prepares students to service a variety of structures including commercial and institutional buildings. This course provides instruction in basic maintenance and repair skills related to air conditioning, heating, plumbing, electrical, and other mechanical systems. Emphasis should be placed on the use of hand and power tools and the selection and use of appropriate professional supplies needed for care, repair and maintenance. Students will reinforce their mathematical skills through the practical study of measurement units, ratios, area, and volume calculations. Scientific knowledge will be enhanced through the emphasis on environmental concerns and chemical and electrical safety instruction. Language skills will be strengthened through oral and written work intended to improve students' abilities to communicate with supervisors, colleagues, and clients.

- 2 trimesters, Grades 10-12
- Counts as a Directed Elective or Elective for all diplomas

CONSTRUCTION TRADES: ELECTRICAL I

4830 (CONST ECT I)

Construction Trades: Electrical I includes classroom and laboratory experiences focused on the installation and repair of the electrical and wiring systems of physical structures. This course includes instruction on the reading of technical drawings and their application in construction processes. Topics include the relationship between views and details, interpretation of dimension, transposing scale, tolerance, electrical symbols, sections, material lists, architectural plans, room schedules and plot plans. This course covers both AC and DC circuits. Studies include electron theory, Ohm's Law, Watt's Law, Kirchhoff's Law, series circuits, series-parallel circuits, and other electrical concepts. Students will use the underlying scientific principles related to electricity, to complete construction projects. Mathematical principles will be used to solve electrical problems. Students will also interpret health, safety, and welfare standards and codes as dictated by local, state or federal agencies.

- 2 trimesters, Grades 11-12
- Prerequisite: Pass Building and Facilities Management I
- Counts as a Directed Elective or Elective for all diplomas

PRINCIPLES OF CONSTRUCTION TRADES

7130 PRIN CON TR

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 uses for common hand and power tools, learn the types and basic terminology associated with construction drawings, and basic safety. Additionally students will study the roles of individuals and companies within the construction industry and reinforce mathematical and communication skills necessary to be successful in the construction field.

- 2 trimesters, Grades 10 – 12
- Counts as a Directed Elective or Elective for all diplomas

ADVANCED MANUFACTURING I

5608 (ADV MFTG I)

Advanced Manufacturing I is a course that includes classroom and laboratory experiences in two broad areas: Industrial Technology/Software Controls and Manufacturing Trends. Domains include safety and impact, electricity, manufacturing essentials, fluid power principles, mechanical principles, lean manufacturing, and careers in advanced manufacturing. Hands-on projects and team activities will allow students to apply learning on the latest industry technologies. Students take this course with the goal of being a skilled machine operator, repair technician, or working in management at any company that produces goods and services using advanced manufacturing techniques. Work based learning experiences and industry partnerships are highly encouraged for an authentic industry experience.

- 2 trimesters, Grades 10 – 12
- Counts as a Directed Elective or Elective for all diplomas

ADVANCED MANUFACTURING II

5606 (ADV MFTG II)

Advanced Manufacturing II builds on classroom and lab experiences students experienced in Advanced Manufacturing I. Domains include safety and impact, drafting principles, manufacturing programming, CAD/CAM and CNC technologies, automation and robotics, and careers in advanced manufacturing. Hands-on projects and team activities will allow students to apply learning on the latest industry technologies. Students continue this course with the goal of being a skilled machine operator, repair technician, or management at any company that produces goods and services using advanced manufacturing techniques. Work based learning experiences and industry partnerships are highly encouraged for an authentic industry experience.

- 2 trimesters, Grades 11 – 12
- Prerequisites: Advanced Manufacturing I
- Counts as a Directed Elective or Elective for all diplomas
- Qualifies as a quantitative reasoning course

BUILDING AND FACILITIES MAINTENANCE FUNDAMENTALS

7285 BLDG FAC MAINT FUND

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.

- 2 trimesters, Grades 11 – 12
- Prerequisite: Principles of Construction Trades
- Counts as a Directed Elective or Elective for all diplomas

ADVANCED BUILDING AND FACILITIES MAINTENANCE

7286 ADV BLDG FAC MAINT

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

- 2 trimesters, Grades 11 – 12
- Prerequisite: Principles of Construction Trades
- Taken concurrently with Building and Facilities Maintenance Fundamentals and Technical Skills Development
- Counts as a Directed Elective or Elective for all diplomas

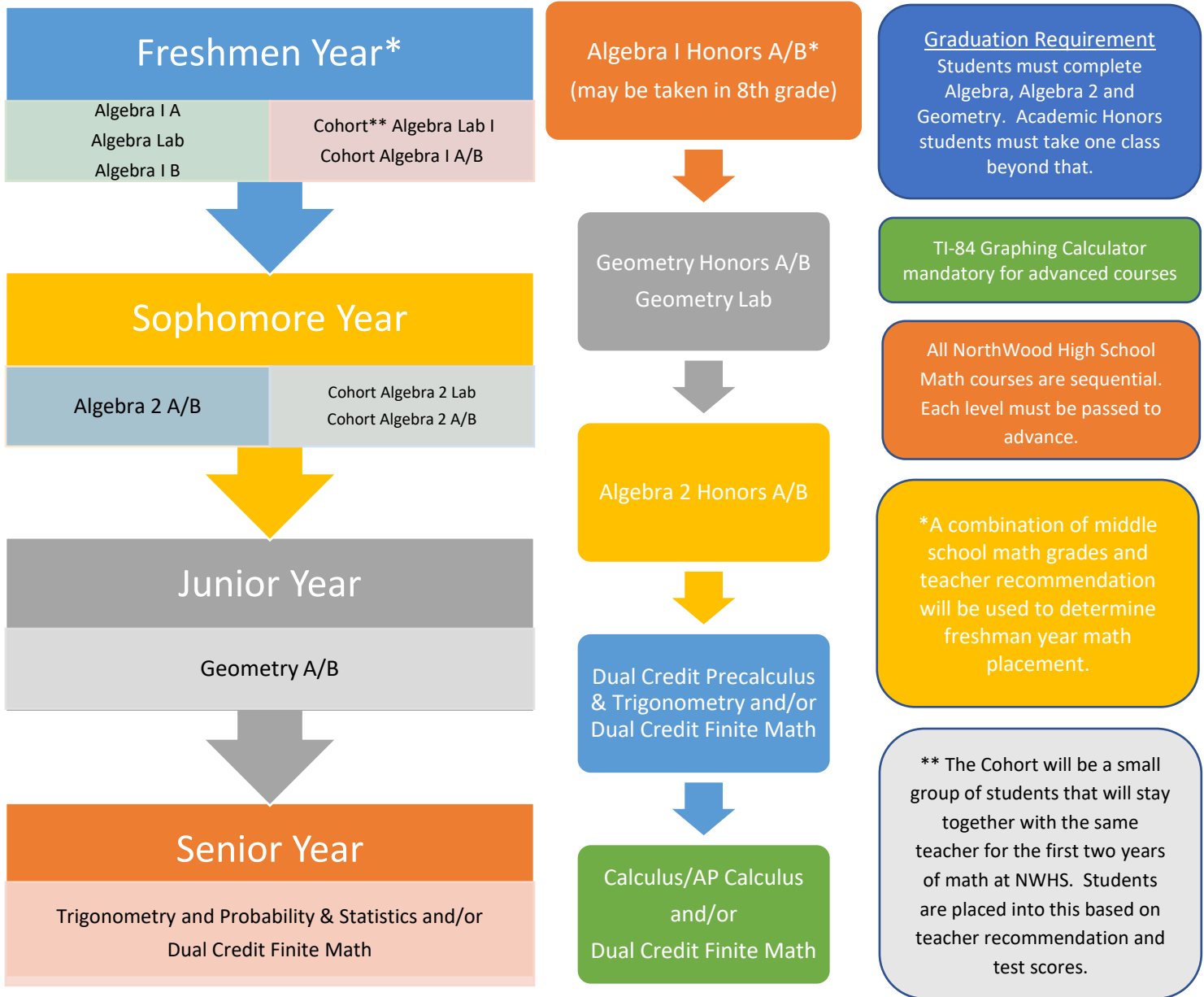
TECHNICAL SKILLS DEVELOPMENT

7156 TECH SKL DEV

The Technical Skills Development course may be used to provide students with the opportunity to apply the technical knowledge and skills learned in a Concentrator A or B course through additional real world learning experiences such as lab activities, project based learning or a work-based learning experience. Students must be co-enrolled in a Concentrator A and/or B course in order to be enrolled in the Technical Skills Development course.

- 2 trimesters, Grades 11 – 12
- Prerequisite: Principles of Construction Trades
- Taken concurrently with Building and Facilities Maintenance Fundamentals and Technical Skills Development
- Counts as a Directed Elective or Elective for all diplomas

MATHEMATICS



ALGEBRA I HONORS

2520 (ALG I)

Algebra I formalizes and extends the mathematics students learned in the middle grades. Algebra I is made up of six strands: Number Systems and Expressions; Functions; Linear Equations, Inequalities, and Functions; Systems of Equations and Inequalities; Quadratic and Exponential Equations and Functions; and Data Analysis and Statistics. These critical areas deepen and extend understanding of linear and exponential relationships by contrasting them with each other and by applying linear models to data that exhibit a linear trend. Students will also engage in methods for analyzing, solving, and using quadratic functions. The eight Process Standards for Mathematics apply throughout the course. Together with the content standards, the Process Standards prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

- 2 trimesters, Grade 9
- Prerequisite: “B” average in 8th grade Math or teacher recommendation
- Students must have a graphing calculator (TI-84 or equivalent, cost is approximately \$125)
- Counts as a Mathematics Course for all diplomas
- Fulfills the Algebra I/Integrated Mathematics I requirement for all diplomas

ALGEBRA LAB AND ALGEBRA I

2516 (ALG I LAB)/2520 (ALG I)

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

Algebra I formalizes and extends the mathematics students learned in the middle grades. Algebra I is made up of six strands: Number Systems and Expressions; Functions; Linear Equations, Inequalities, and Functions; Systems of Equations and Inequalities; Quadratic and Exponential Equations and Functions; and Data Analysis and Statistics. These critical areas deepen and extend understanding of linear and exponential relationships by contrasting them with each other and by applying linear models to data that exhibit a linear trend. Students will also engage in methods for analyzing, solving, and using quadratic functions. The eight Process Standards for Mathematics apply throughout the course. Together with the content standards, the Process Standards prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

- 3 trimesters, Grade 9
- Algebra I A/B counts as a Mathematics Course for all diplomas; Algebra Lab counts as an elective for all diplomas except the General Diploma in which it counts as a math course
- Algebra I A/B fulfills the Algebra I/Integrated Mathematics I requirement for all diplomas

GEOMETRY

2532 (GEOM)

Geometry formalizes and extends students' geometric experiences from the middle grades. Students explore more complex geometric situations and deepen their explanations of geometric relationships, moving towards formal mathematical arguments. Seven critical areas comprise the Geometry course: Logic and Proofs; Points, Lines, Angles, and Planes; Triangles; Quadrilaterals and Other Polygons; Circles; Transformations; and Three-dimensional Solids. The eight Process Standards for Mathematics apply throughout the course. Together with the content standards, the Process Standards prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

- 2 trimesters, Grade 11
- Prerequisite: Pass Algebra II
- Counts as a Mathematics Course for all diplomas
- Fulfills the Geometry/Integrated Mathematics II requirement for the Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diploma

ALGEBRA II

2522 (ALG II)

Algebra II builds on work with linear, quadratic, and exponential functions and allows for students to extend their repertoire of functions to include polynomial, rational, and radical functions. Students work closely with the expressions that define the functions, and continue to expand and hone their abilities to model situations and to solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms. Algebra II is made up of seven strands: Data Analysis, Statistics, and Probability; Arithmetic and Structure of Expressions; Functions; Systems of Equations and Inequalities; Quadratic Equations and Functions; Exponential and Logarithmic Equations and Functions; and Polynomial, Rational, and Other Equations and Functions. The eight Process Standards for Mathematics apply throughout the course. Together with the content standards, the Process Standards prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

- 2 trimesters, Grades 10-12
- Prerequisite: Pass Algebra I
- Counts as a Mathematics Course for all diplomas
- Fulfills the Algebra II/Integrated Mathematics III requirement for all diplomas

GEOMETRY HONORS & MATH LAB - GEOMETRY

2532 (GEOM)/2560 (MATH LAB)

Geometry formalizes and extends students' geometric experiences from the middle grades. Students explore more complex geometric situations and deepen their explanations of geometric relationships, moving towards formal mathematical arguments. Seven critical areas comprise the Geometry course: Logic and Proofs; Points, Lines, Angles, and Planes; Triangles; Quadrilaterals and Other Polygons; Circles; Transformations; and Three-dimensional Solids. The eight Process Standards for Mathematics apply throughout the course. Together with the content standards, the Process Standards prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

Mathematics Lab provides students with individualized instruction designed to support success in completing mathematics coursework aligned with Indiana's Academic Standards for Mathematics. Mathematics Lab is to be taken in conjunction with a Core 40 mathematics course, and the content of Mathematics Lab should be tightly aligned to the content of its corresponding course.

- 3 trimesters, Grade 9-10
- Prerequisite: Pass Algebra I Honors or teacher recommendation
- Students must have a graphing calculator (TI-84 or equivalent, cost is approximately \$125)

Geometry:

- Counts as a Mathematics Course for all diplomas
- Fulfills the Geometry/Integrated Mathematics II requirement for the Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diploma

Geometry Lab:

- Counts as an Elective for all diplomas

ALGEBRA II HONORS

2522 (ALG II)

Algebra II builds on work with linear, quadratic, and exponential functions and allows for students to extend their repertoire of functions to include polynomial, rational, and radical functions. Students work closely with the expressions that define the functions, and continue to expand and hone their abilities to model situations and to solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms. Algebra II is made up of seven strands: Data Analysis, Statistics, and Probability; Arithmetic and Structure of Expressions; Functions; Systems of Equations and Inequalities; Quadratic Equations and Functions; Exponential and Logarithmic Equations and Functions; and Polynomial, Rational, and Other Equations and Functions. The eight Process Standards for Mathematics apply throughout the course. Together with the content standards, the Process Standards prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

- 2 trimesters, Grades 10-11
- Prerequisite: Pass Geometry Honors or teacher recommendation
- Students must have a graphing calculator (TI-84 or equivalent, cost is approximately \$125)
- Counts as a Mathematics Course for all diplomas
- Fulfills the Algebra II/Integrated Mathematics III requirement for all diplomas

PRE-CALCULUS: TRIGONOMETRY

2566 (TRIG)

Trigonometry provides students with the skills and understandings that are necessary for advanced manipulation of angles and measurement. Trigonometry provides the foundation for common periodic functions that are encountered in many disciplines, including music, engineering, medicine, finance, and nearly all other STEM disciplines. Trigonometry consists of six strands: Unit Circle; Triangles; Periodic Functions; Identities; Polar Coordinates and Complex Numbers; and Vectors. Students will advance their understanding of imaginary numbers through an investigation of complex numbers and polar coordinates. A strong understanding of complex and imaginary numbers is a necessity for fields such as engineering and computer programming. The eight Process Standards for Mathematics apply throughout the course. Together with the content standards, the Process Standards prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

- 1 trimester, Grades 11-12
- Prerequisite: Pass Geometry and Algebra II
- Students must have a graphing calculator (TI-84 or equivalent, cost is approximately \$125)
- Counts as a Mathematics course for all diplomas

DUAL CREDIT TRIGONOMETRY/MATH 137 TRIGONOMETRY WITH ANALYTICAL GEOMETRY

2566 (TRIG)

Trigonometry provides students with the skills and understandings that are necessary for advanced manipulation of angles and measurement. Trigonometry provides the foundation for common periodic functions that are encountered in many disciplines, including music, engineering, medicine, finance, and nearly all other STEM disciplines. Trigonometry consists of six strands: Unit Circle; Triangles; Periodic Functions; Identities; Polar Coordinates and Complex Numbers; and Vectors. Students will advance their understanding of imaginary numbers through an investigation of complex numbers and polar coordinates. A strong understanding of complex and imaginary numbers is a necessity for fields such as engineering and computer programming. The eight Process Standards for Mathematics apply throughout the course. Together with the content standards, the Process Standards prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

- 1 trimester, Grades 11-12
- Prerequisites: Dual Credit Pre-Calculus
- Students must have a graphing calculator (TI-84 or equivalent, cost is approximately \$125)
- This is a dual credit course offered through Ivy Tech. Additional fees may apply.
- Counts as a Mathematics course for all diplomas

PROBABILITY AND STATISTICS

2546 (PROB/STAT)

Probability and Statistics includes the concepts and skills needed to apply statistical techniques in the decision-making process. Probability and Statistics are made up of three strands: Data Analysis; Experimental Design; and Probability. Practical examples based on real experimental data are used throughout. Students plan and conduct experiments or surveys and analyze the resulting data. The use of graphing technology and computer programs is encouraged. The eight Process Standards for Mathematics apply throughout the course. Together with the content standards, the Process Standards prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

- 1 trimester, Grades 11 – 12
- Prerequisite: Pass Geometry and Algebra II
- Students must have a graphing calculator (TI-84 or equivalent, cost is approximately \$125)
- Counts as a Mathematics Course for all diplomas

DUAL CREDIT PRE-CALCULUS/MATH 136 COLLEGE ALGEBRA

2564 (PRE CAL)

Pre-Calculus includes the study of trigonometric, exponential, logarithmic, and polynomial functions. Also included will be study of series and sequences, statistical analysis of data, basics of probability, polar coordinates and complex numbers. These topics will be studied with a strong visual emphasis on graph analysis. Students will be required to have access to a Texas Instrument TI-84 Graphing Calculator or higher (Price range \$85-\$100).

- 1 trimester, Grades 11-12
- Prerequisite: Algebra II Honors or teacher recommendation
- Students must have a graphing calculator (TI-84 or equivalent, cost is approximately \$125)
- This is a dual credit course offered through Ivy Tech. Additional fees may apply.
- Counts as a Mathematics Course for all diplomas

CALCULUS and AP CALCULUS AB

2527 (CALC)

2562 (CALC AB AP)

Calculus expands a student's knowledge of topics like functions, graphs, limits, derivatives, and integrals. Additionally, students will review algebra and functions, modeling, trigonometry, etc. Calculus is made up of five strands: Limits and Continuity; Differentiation; Applications of Derivatives; Integrals; and Applications of Integrals. The eight Process Standards for Mathematics apply throughout the course. Together with the content standards, the Process Standards prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

AP Calculus AB is a course based on the content established and copyrighted by the College Board. The course is not intended to be used as a dual credit course. AP Calculus AB is equivalent to a first semester college calculus course devoted to topics in differential and integral calculus. This course covers topics in these areas, including concepts and skills of limits, derivatives, definite integrals, and the Fundamental Theorem of Calculus. The course teaches students to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and to make connections amongst these representations. Students learn how to use technology to help solve problems, experiment, interpret results, and support conclusions.

- 3 trimesters, Grade 12
- Prerequisite: Pass Pre-Calculus with a C or better
- Students must have a graphing calculator (TI-84 or equivalent, cost is approximately \$125)

Calculus:

- Counts as a Mathematics Course for all diplomas

AP Calculus A/B:

- Counts as a Mathematics Course for all diplomas
- Qualifies as a quantitative reasoning course

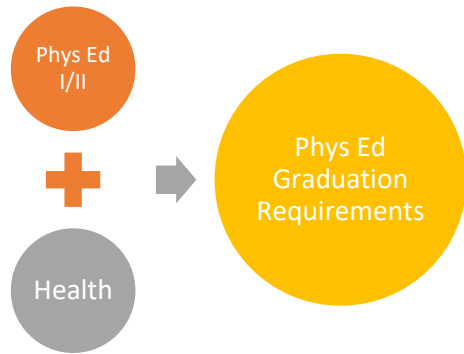
FINITE MATHEMATICS/M118 INDIANA UNIVERSITY

2530 (FINITE)

Finite Mathematics is a collection of mathematical topics, frequently used in business or public policy contexts. It is a course designed for students who will undertake higher-level mathematics in college that may not include calculus. Finite Math is made up of five strands: Sets; Matrices; Networks; Optimization; and Probability. The skills listed in these strands indicate what students should know and be able to do in Finite Math. The eight Process Standards for Mathematics apply throughout the course. Together with the content standards, the Process Standards prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

- 2 trimesters, Grades 11 – 12
- Prerequisite: Algebra II Honors
- Students must have a graphing calculator (TI-84 or equivalent, cost is approximately \$125)
- This is a dual credit course offered through Indiana University. Additional fees may apply.
- Counts as a Mathematics course for all diplomas

PHYSICAL EDUCATION & HEALTH SCIENCES



After completion of graduation requirements, students can take up to 8 credits in:

- Elective Physical Education – Fitness and Toning
- Elective Physical Education – Advanced Physical Conditioning
- Elective Physical Education – Phys Ed Assistant
- Elective Physical Education – Lifeguarding
- Elective Physical Education – Lifeguarding Assistant
- Elective Physical Education – Aerobic Walking
- Elective Physical Education – Aquatics

PHYSICAL EDUCATION I (FEMALE/MALE)

3542 (PHYS ED)

Physical Education I focuses on instructional strategies through a planned, sequential, and comprehensive physical education curriculum which provides students with opportunities to actively participate in at least four of the following: team sports; dual sport activities; individual physical activities; outdoor pursuits; self-defense and martial arts; aquatics; gymnastics; and dance, all of which are within the framework of the skills, knowledge and confidence needed by the student for a lifetime of healthful physical activity and fitness. Ongoing assessment includes both written and performance-based skill evaluation. Individual assessments may be modified for individuals with disabilities, in addition to those with IEPs and 504 plans (e.g., chronic illnesses, temporary injuries, obesity, etc.)

- 1 trimester, Grade 9
- Students must purchase uniform and one-piece swimsuits are required
- Piercings MUST be removed daily
- Students must purchase combination locks to use in the locker room
- Fulfills part of the Physical Education requirement for all diplomas

PHYSICAL EDUCATION II (FEMALE/MALE)

3544 (PHYS ED II)

Physical Education II focuses on instructional strategies through a planned, sequential, and comprehensive physical education curriculum which provides students with opportunities to actively participate in four of the following areas that were not included in Physical Education I: team sports; dual sport activities; individual physical activities; outdoor pursuits; self-defense and martial arts; aquatics; gymnastics; and dance, all of which are within the framework of the skills, knowledge and confidence needed by the student for a lifetime of healthful physical activity and fitness. Ongoing assessment includes both written and performance-based skill evaluation. Individual assessments may be modified for individuals with disabilities, in addition to those with IEPs and 504 plans (e.g., chronic illnesses, temporary injuries, obesity, etc.)

- 1 trimester, Grade 9
- Students must purchase uniform and one-piece swimsuits are required
- Piercings MUST be removed daily
- Students must purchase combination locks to use in the locker room
- Fulfills part of the Physical Education requirement for all diplomas

ELECTIVE PHYSICAL EDUCATION – PHYS ED ASSISTANT (FEMALE/MALE)

3560 (ELECT PE)

- 1 trimester, Grades 10-12
- Prerequisite: Passed Physical Education I/II with at least a B
- Students must purchase uniform
- Counts as an Elective requirement for all diplomas
- Students are limited to only 8 credits of Elective PE Courses. Courses taken after that will be graded on a pass/fail basis and will not count for credit. The Elective PE courses include:
 - Elective Physical Education – Fitness and Toning
 - Elective Physical Education – Advanced Physical Conditioning
 - Elective Physical Education – Lifeguarding
 - Elective Physical Education – Lifeguarding Assistant
 - Elective Physical Education – Phys Ed Assistant
 - Elective Physical Education – Aerobic Walking
 - Elective Physical Education – Aquatic Fitness & Sports
 - Elective Physical Education – Lifetime Activities

HEALTH & WELLNESS EDUCATION

3506 (HLTH&WELL)

Health and Wellness, a course based on Indiana's Academic Standards for Health and Wellness and provides the basis to help students adopt and maintain healthy behaviors. Health education should contribute directly to a student's ability to successfully practice behaviors that protect and promote health and avoid or reduce health risks. Through a variety of instructional strategies, students practice the development of functional health information (essential concepts); determine personal values that support health behaviors; develop group norms that value a healthy lifestyle; develop the essential skills necessary to adopt, practice, and maintain health-enhancing behaviors. This course includes the application of priority areas in a planned, sequential, comprehensive health education curriculum. Priority areas include: promoting personal health and wellness, physical activity, and healthy eating; promoting safety and preventing unintentional injury and violence; promoting mental and emotional health, a tobacco-free lifestyle and an alcohol- and other drug-free lifestyle; and promoting human development and family health. This course provides students with the knowledge and skills of health and wellness core concepts, analyzing influences, accessing information, interpersonal communication, decision-making and goal-setting skills, health-enhancing behaviors, and health and wellness advocacy skills.

- 1 trimester, Grade 10
- Fulfills the Health & Wellness requirement for all diploma types

ELECTIVE PHYSICAL EDUCATION – LIFEGUARDING

3560 (ELECT PE)

Students will complete the Red Cross Lifeguarding Class, which includes First Aid. Students will be certified lifeguards at the end of the course.

- 1 trimester, Grades 9-12
- Prerequisite: Teacher approval. Must be able to:
 - Swim 300 yards continuously
 - Touch bottom of pool in 9 feet of water
- Student MUST be 15 years old at the end of the class
- Counts as an Elective requirement for all diplomas
- Students are limited to only 8 credits of Elective PE Courses. Courses taken after that will be graded on a pass/fail basis and will not count for credit. The Elective PE courses include:
 - Elective Physical Education – Fitness and Toning
 - Elective Physical Education – Advanced Physical Conditioning
 - Elective Physical Education – Lifeguarding
 - Elective Physical Education – Lifeguarding Assistant
 - Elective Physical Education – Phys Ed Assistant
 - Elective Physical Education – Aerobic Walking
 - Elective Physical Education – Aquatic Fitness & Sports
 - Elective Physical Education – Lifetime Activities

ELECTIVE PHYSICAL EDUCATION – ADVANCED PHYSICAL CONDITIONING

3560 (ELECT PE)

This is a weight training class. The programs followed in these classes are designed to develop strength, explosive power, flexibility, agility, coordination, quickness, speed, muscular and cardiovascular endurance. Outcomes from these classes are enhanced physical fitness, pride, self-discipline, proper attitude toward work, sacrifice and commitment. Students will be required to keep daily records of their weights and log their performance on a variety of physical fitness screens.

- 1 trimester each, Grades 9-12
- Prerequisite: Pass PE I/II with at least a B
- Students must purchase uniform
- Counts as an Elective requirement for all diplomas
- Students are limited to only 8 credits of Elective PE Courses. Courses taken after that will be graded on a pass/fail basis and will not count for credit. The Elective PE courses include:
 - Elective Physical Education – Fitness and Toning
 - Elective Physical Education – Advanced Physical Conditioning
 - Elective Physical Education – Lifeguarding
 - Elective Physical Education – Lifeguarding Assistant
 - Elective Physical Education – Phys Ed Assistant
 - Elective Physical Education – Aerobic Walking
 - Elective Physical Education – Aquatic Fitness & Sports
 - Elective Physical Education – Lifetime Activities

ELECTIVE PHYSICAL EDUCATION – FITNESS AND TONING

3560 (ELECT PE)

This fitness based Physical Education course will include activities such as aerobics, body-shaping, yoga, and long-term exercise programs. Students will be required to keep a fitness log, set personal fitness goals and develop an individualized fitness program.

- 1 trimester, Grades 10-12
- Prerequisite: Passed Physical Education I/II
- Students must purchase uniform
- Counts as an Elective requirement for all diplomas
- Students are limited to only 8 credits of Elective PE Courses. Courses taken after that will be graded on a pass/fail basis and will not count for credit. The Elective PE courses include:
 - Elective Physical Education – Fitness and Toning
 - Elective Physical Education – Advanced Physical Conditioning
 - Elective Physical Education – Lifeguarding
 - Elective Physical Education – Lifeguarding Assistant
 - Elective Physical Education – Phys Ed Assistant
 - Elective Physical Education – Aerobic Walking
 - Elective Physical Education – Aquatic Fitness & Sports
 - Elective Physical Education – Lifetime Activities

ELECTIVE PHYSICAL EDUCATION – LIFEGUARDING ASSISTANT (FEMALE/MALE)

3560 (ELECT PE)

- 1 trimester, Grades 10-12
- Prerequisite: Passed Elective Physical Education – Lifeguarding
- Counts as an Elective requirement for all diplomas
- Students are limited to only 8 credits of Elective PE Courses. Courses taken after that will be graded on a pass/fail basis and will not count for credit. The Elective PE courses include:
 - Elective Physical Education – Fitness and Toning
 - Elective Physical Education – Advanced Physical Conditioning
 - Elective Physical Education – Lifeguarding
 - Elective Physical Education – Lifeguarding Assistant
 - Elective Physical Education – Phys Ed Assistant
 - Elective Physical Education – Aerobic Walking
 - Elective Physical Education – Aquatic Fitness & Sports
 - Elective Physical Education – Lifetime Activities

ELECTIVE PHYSICAL EDUCATION – AEROBIC WALKING

3560 (ELECT PE)

This course is designed to provide an opportunity for students to develop a fitness workout plan through the activities of walking and aerobic exercise. Students will participate in a low impact form of exercise that is lifelong.

- 1 trimester, Grades 10-12
- Students must purchase uniform
- Counts as an Elective requirement for all diplomas
- Students are limited to only 8 credits of Elective PE Courses. Courses taken after that will be graded on a pass/fail basis and will not count for credit. The Elective PE courses include:
 - Elective Physical Education – Fitness and Toning
 - Elective Physical Education – Advanced Physical Conditioning
 - Elective Physical Education – Lifeguarding
 - Elective Physical Education – Lifeguarding Assistant
 - Elective Physical Education – Phys Ed Assistant
 - Elective Physical Education – Aerobic Walking
 - Elective Physical Education – Aquatic Fitness & Sports
 - Elective Physical Education – Lifetime Activities

ELECTIVE PHYSICAL EDUCATION – LIFETIME ACTIVITIES

3560 (ELECT PE)

This class is designed to promote lifetime sport and recreational/fitness activities. Activities will include but not be limited to team sports, dual sport activities, individual sports, strength and conditioning, and cardiovascular fitness.

- 1 trimester, Grades 10-12
- Students must purchase uniform
- Counts as an Elective requirement for all diplomas
- Students are limited to only 8 credits of Elective PE Courses. Courses taken after that will be graded on a pass/fail basis and will not count for credit. The Elective PE courses include:
 - Elective Physical Education – Fitness and Toning
 - Elective Physical Education – Advanced Physical Conditioning
 - Elective Physical Education – Lifeguarding
 - Elective Physical Education – Lifeguarding Assistant
 - Elective Physical Education – Phys Ed Assistant
 - Elective Physical Education – Aerobic Walking
 - Elective Physical Education – Aquatic Fitness & Sports
 - Elective Physical Education – Lifetime Activities

ELECTIVE PHYSICAL EDUCATION – AQUATIC FITNESS & SPORTS

3560 (ELECT PE)

This course introduces student to different forms of aquatic fitness and sports and enhance their physical fitness through water related activities. Students will be exposed to a variety of water activities including water polo, water volleyball and basketball, snorkeling, kayaking, ultimate torpedo, diving board games, water soccer and water fitness. Students have the opportunity to be introduced to scuba diving and experience an actual dive in the pool.

- 1 trimester, Grades 10-12
- Counts as an Elective requirement for all diplomas
- Students are limited to only 8 credits of Elective PE Courses. Courses taken after that will be graded on a pass/fail basis and will not count for credit. The Elective PE courses include:
 - Elective Physical Education – Fitness and Toning
 - Elective Physical Education – Advanced Physical Conditioning
 - Elective Physical Education – Lifeguarding
 - Elective Physical Education – Lifeguarding Assistant
 - Elective Physical Education – Phys Ed Assistant
 - Elective Physical Education – Aerobic Walking
 - Elective Physical Education – Aquatic Fitness & Sports
 - Elective Physical Education – Lifetime Activities

SCIENCE

9th Grade	10th Grade	11th Grade	12th Grade
<ul style="list-style-type: none">•Biology	<ul style="list-style-type: none">•Chemistry or Integrated Chem/Phys•<u>Elective Options:</u><ul style="list-style-type: none">•Anatomy & Physiology•Environmental Science•Genetics•Microbiology•Zoology	<ul style="list-style-type: none">•<u>Options:</u><ul style="list-style-type: none">•Anatomy & Physiology•Chemistry I•Dual Credit Chemistry CHEM101/121•Environmental Science•Genetics•Integrated Chem/Phys•Microbiology•Physics/AP Physics•Zoology	<ul style="list-style-type: none">•<u>Options:</u><ul style="list-style-type: none">•Anatomy & Physiology•Chemistry I•Dual Credit Chemistry CHEM101/121•Environmental Science•Genetics•Integrated Chem/Phys•Microbiology•Physics/AP Physics•Zoology

Your science teachers have more information available to help you make decisions on which courses to take. Required prerequisites for all courses after Biology I are listed in the course descriptions.

BIOLOGY I

3024 (BIO I)

Biology I is a course based on the following core topics: cellular structure and function, matter cycles and energy transfer; interdependence; inheritance and variation in traits; evolution. Instruction should focus on developing student understanding that scientific knowledge is gained from observation of natural phenomena and experimentation, by designing and conducting investigations guided by the Science and Engineering Practices (SEPS) and crosscutting concepts.

- 2 trimesters, Grade 9
- Fulfills the Biology requirement for all diplomas

INTEGRATED CHEMISTRY-PHYSICS

3108 (ICP)

Integrated Chemistry-Physics is a course focused on the following core topics: constant velocity; uniform acceleration; Newton's Laws of motion (one dimension); energy; particle theory of matter; describing substances; representing chemical change; electricity and magnetism; waves; nuclear energy. Instruction should focus on developing student understanding that scientific knowledge is gained from observation of natural phenomena and experimentation using the Science and Engineering Practices (SEPS) and cross-cutting concepts. This course MAY NOT prepare you for the academic science rigor at the college level.

- 2 trimesters, Grades 10-12
- Prerequisite: Pass Biology I
- Counts as an Elective for all diplomas
- Fulfills a science (physical) course requirement for all diplomas

PHYSICS I

3084 (PHYS I)

Physics I is a course focused on the following core topics: constant velocity; constant acceleration; forces; energy; linear momentum in one dimension; simple harmonic oscillating systems; mechanical waves and sound; simple circuit analysis. Instruction should focus on developing student understanding that scientific knowledge is gained from observation of natural phenomena and experimentation using the Science and Engineering Practices (SEPS) and cross-cutting concepts.

- 2 trimesters, Grades 11-12
- Prerequisite: Pass Algebra II Honors
- Counts as an Elective for all diplomas
- Fulfills a science (physical) course requirement for all diplomas
- Qualifies as a quantitative reasoning course

AP PHYSICS I: ALGEBRA-BASED

3080 (PHYS 1 AP)

AP Physics 1 is a course based on the content established and copyrighted by the College Board. The course is not intended to be used as a dual credit course. AP Physics 1: Algebra-based is equivalent to a first-semester college course in algebra-based physics. The course includes Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; mechanical waves and sound. It will also introduce electric circuits

- 1 trimester, Grades 11 – 12
- Prerequisite: Physics
 - Will take Physics I A/B during 1st/2nd trimester and AP Physics during 3rd trimester
- This is an independent study course.
- Counts as a science course for all diplomas
- Qualifies as a quantitative reasoning course.

ENVIRONMENTAL SCIENCE – ECOLOGICAL ISSUES

3010 (ENVSCI) - *Formerly Environmental Science B*

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

Environmental Science – Ecological Issues incorporates human population dynamics and renewable energy. The course explores solutions to energy demands using Biofuels, Geothermal energy, Hydropower, Wind Energy, Solar Energy and Hydrogen Energy. Join us as we build Hydrogen cars, wind turbines and passive solar home models.

- 1 trimester each, Grades 10-12
- Prerequisite: Pass Biology I
- Counts as an Elective for all diplomas
- Fulfills a science (life) course requirement for all diplomas

ENVIRONMENTAL SCIENCE – RENEWABLE ENERGY

3010 (ENVSCI) *Formerly Environmental Science A*

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

Environmental Science – Renewable Energy builds on your understanding of earth's natural systems and the demands placed on them by the human population. Using case studies, student projects and labs, this course will consider current global environmental concerns and the challenge of sustainability. Examples of projects we will tackle include growing our own plants, building our perfect sustainable island, and considering the energy cost of our favorite produce.

- 1 trimester each, Grades 10-12
- Prerequisite: Pass Biology I
- Counts as an Elective for all diplomas
- Fulfills a science (life) course requirement for all diplomas

ADVANCED SCIENCE, SPECIAL TOPICS - ZOOLOGY

3092 (ADV SCI ST)

Zoology is a trimester course that provides the student with a survey of invertebrate and vertebrate animals. Zoology students will delve into the diversity of life by studying the evolution, characteristics, taxonomic relationships, life processes, survival mechanisms, and economic importance among the organisms. This course will include a significant amount of dissection of various animals and challenge students with activities, experiments, critical-thinking, and problem solving.

- 1 trimester, Grades 10 – 12
- Prerequisite: Pass Biology I with a grade of “C” or better or instructor approval
- Counts as a science course for all diplomas

ADVANCED SCIENCE, SPECIAL TOPICS - GENETICS

3092 (ADV SCI ST)

The course is designed to expand upon the Genetics unit introduced in the Biology I course and to show the importance of Genetics in taking our understanding of humans to a new level. The goal is to make students aware of the complexity involved in designing organisms (more specifically humans) and to demonstrate both the fragility and sturdiness of the materials that make up our genomes.

- 1 trimester, Grades 10 – 12
- Prerequisite: Pass Biology I with a grade of “B” or better or instructor approval
- Counts as a science course for all diplomas

ADVANCED SCIENCE, SPECIAL TOPICS - MICROBIOLOGY

3092 (ADV SCI ST)

This course covers principles of microbiology with emphasis on microorganisms and human disease. Topics include an overview of microbiology and aspects of medical microbiology, the environment and economic impact of microorganisms, identification and control of pathogens, disease transmission, host resistance, and immunity. This course is designed to challenge students with activities, experiments, critical-thinking, and problem solving.

- 1 trimester, Grades 10 – 12
- Prerequisite: Pass Biology I with a grade of “B” or better or instructor approval
- Counts as a science course for all diplomas

ANATOMY AND PHYSIOLOGY

5276 (A & P)

Anatomy & Physiology is a course in which students investigate concepts related to Health Science, with emphasis on interdependence of systems and contributions of each system to the maintenance of a healthy body. It introduces students to the cell, which is the basic structural and functional unit of all organisms, and covers tissues, integumentary, skeletal, muscular, and nervous systems as an integrated unit. Through instruction, including laboratory activities, students apply concepts associated with Human Anatomy & Physiology. Students will understand the structure, organization and function of the various components of the healthy body in order to apply this knowledge in all health related fields.

- 2 trimesters, Grades 10-12
- Prerequisite: Pass Biology I with a grade of “B” or better or instructor approval
- Counts as a Directed Elective or Elective for all diplomas
- Fulfills a science course requirement for all diplomas

CHEMISTRY I

3064 (CHEM I)

Chemistry I is a course based on the following core topics: properties and states of matter; atomic structure and the Periodic Table; bonding and molecular structure; reactions and stoichiometry; behavior of gases; thermochemistry; solutions; acids and bases. Students enrolled in Chemistry I compare, contrast, and synthesize useful models of the structure and properties of matter and the mechanisms of its interactions. Instruction should focus on developing student understanding that scientific knowledge is gained from observation of natural phenomena and experimentation, the Science and Engineering Practices (SEPS) and cross-cutting concepts. Preparation for college content will be the basis for this course.

- 2 trimesters, Grades 10-12
- Prerequisite: For sophomores - Pass Algebra I and Biology with a grade of “B” or better.
- Counts as an Elective for all diplomas
- Fulfills a science (physical) course requirement for all diplomas
- Qualifies as a quantitative reasoning course

CHEMISTRY II & ADVANCED SCIENCE, COLLEGE CREDIT/CHEM 101/121 INDIANA UNIVERSITY

3066 (CHEM II)

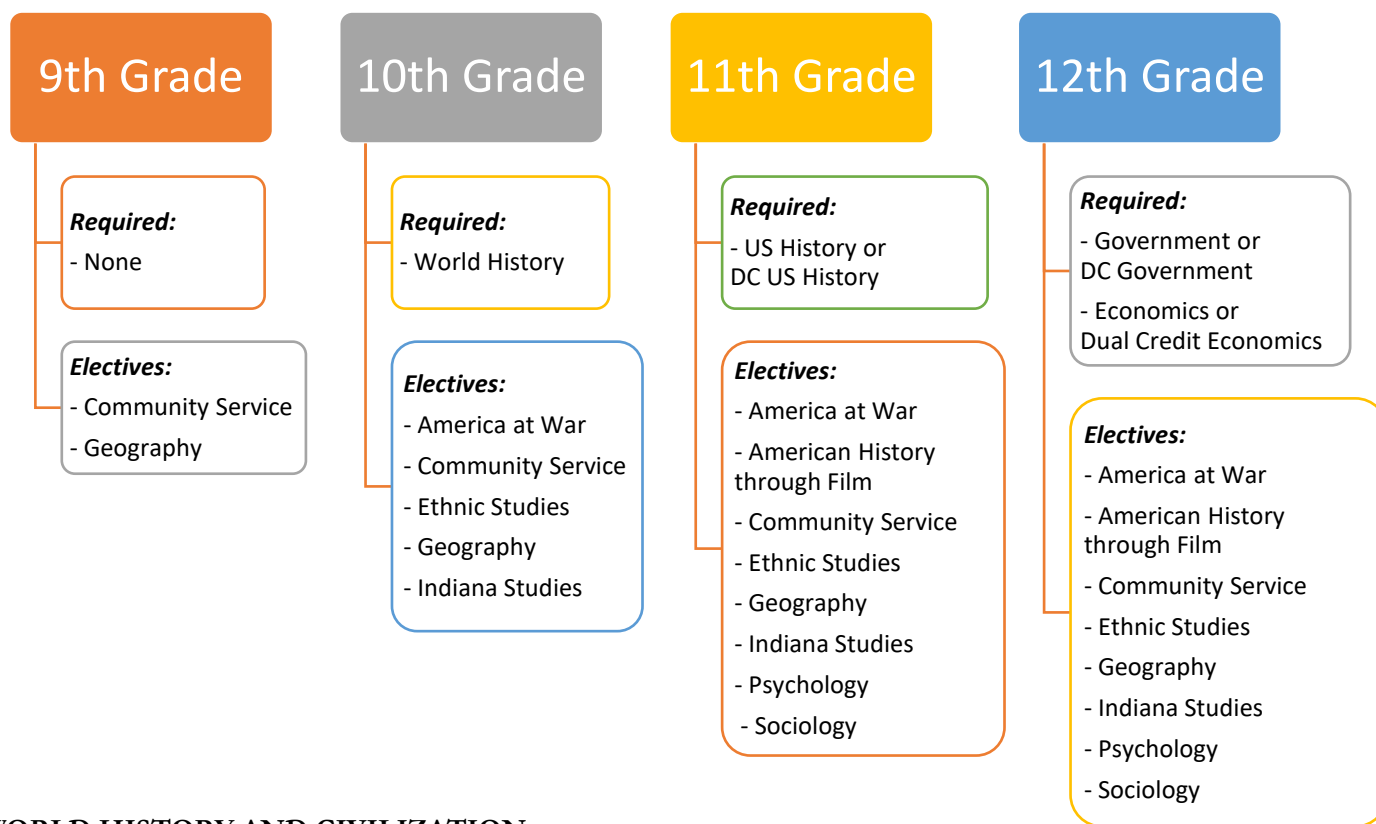
3090 (ADV SCI CC)

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

Students can earn 5 college credits.

- 3 trimesters, Grades 11-12
- Prerequisite: Pass Chemistry I with a grade of “B” or better and have a 3.0 cumulative GPA
- This is a dual credit course offered through IUSB. Additional fees may apply.
- Counts as a Science Course for all diplomas

SOCIAL STUDIES



WORLD HISTORY AND CIVILIZATION

1548 (WLD HST/CVL)

World History and Civilization emphasizes events and developments in the past that greatly affected large numbers of people across broad areas and that significantly influenced peoples and places in subsequent eras. Key events related to people and places as well as transcultural interaction and exchanges are examined in this course. Students are expected to compare and contrast events and developments involving diverse peoples and civilizations in different regions of the world. They will examine examples of continuity and change, universality and particularity, and unity and diversity among various peoples and cultures from the past to the present. Students are also expected to practice and process skills of historical thinking and research and apply content knowledge to the practice of thinking and inquiry skills and processes. There will be continuous and pervasive interactions of processes and content, skills and substance, in the teaching and learning of history.

- 2 trimesters, Grade 10
- Counts as an Elective for all diplomas
- Fulfills the Geography History of the World/World History and Civilization graduation requirement for all diplomas

TOPICS IN HISTORY – AMERICA AT WAR

1538 (TOP HIST)

Topics in History will provide students with a specific look at major wars the US has been involved in. The focus will be the Civil War, WWI, WWII, Korean War, the Vietnam War, and the Gulf Wars. The students will get a chance to develop historical research skills using both primary and secondary sources. Sources such as letters, books, music, and other documents will be used in research. Both sides of the war issue will be examined to help develop an understanding of why wars might happen.

- 1 trimester, Grade 10 – 12
- Students need to be prepared to make in-class presentations and complete research papers
- Counts as an Elective all diplomas
- Fulfills Social Studies course requirement for General Diploma

SOCIOLOGY

1534 (SOCIOLOGY)

Sociology allows students to study human social behavior from a group perspective. The sociological perspective is a method of studying recurring patterns in people's attitudes and actions and how these patterns vary across time, cultures, and in social settings and groups. Students describe the development of sociology as a social science and identify methods of research. Through research methods such as scientific inquiry students examine society, group behavior, and social structures. The influence of culture on group behavior is addressed through institutions such as the family, religion, education, economics, community organizations, government, and political and social groups. The impact of social groups and institutions on group and individual behavior and the changing nature of society will be examined. Influences on group behavior and social problems are included in the course. Students also analyze the role of individuals in the community and social problems in today's world.

- 1 trimester, Grades 11 – 12
- Prerequisite: Cumulative GPA of 3.0 or higher; Sophomores may take if they have passed World History A/B
- Counts as an Elective for all diplomas
- Fulfills Social Studies course requirement for General Diploma

UNITED STATES HISTORY

1542 (US HIST)

United States History is a two trimester course that builds upon concepts developed in previous studies of U.S. History and emphasizes national development from the late nineteenth century into the twenty-first century. After reviewing fundamental themes in the early development of the nation, students are expected to identify and review significant events, persons, and movements in the early development of the nation. The course then gives major emphasis to the interaction of key events, people, and political, economic, social, and cultural influences in national developments from the late nineteenth century through the present as they relate to life in Indiana and the United States. Students are expected to trace and analyze chronological periods and examine the significant themes and concepts in U.S. History. Students develop historical thinking and research skills and use primary and secondary sources to explore topical issues and to understand the cause for changes in the nation over time.

- 2 trimesters, Grade 11
- Fulfills the US History requirement for all diplomas

UNITED STATES HISTORY/HIS 103/113 TRINE UNIVERSITY

1542 (US HIST)

United States History is a two trimester course that builds upon concepts developed in previous studies of U.S. History and emphasizes national development from the late nineteenth century into the twenty-first century. After reviewing fundamental themes in the early development of the nation, students are expected to identify and review significant events, persons, and movements in the early development of the nation. The course then gives major emphasis to the interaction of key events, people, and political, economic, social, and cultural influences in national developments from the late nineteenth century through the present as they relate to life in Indiana and the United States. Students are expected to trace and analyze chronological periods and examine the significant themes and concepts in U.S. History. Students develop historical thinking and research skills and use primary and secondary sources to explore topical issues and to understand the cause for changes in the nation over time.

- 2 trimesters, Grade 11
- Prerequisite: Cumulative GPA of 3.0 or higher
- This is a dual credit course offered ONLINE through Trine University. Additional fees may apply.
- Fulfills the US History requirement for all diplomas

ECONOMICS

1514 (ECON)

Economics examines the allocation of resources and their uses for satisfying human needs and wants. The course analyzes economic reasoning and behaviors of consumers, producers, savers, investors, workers, voters, institutions, governments, and societies in making decisions. Students explain that because resources are limited, people must make choices and understand the role that supply, demand, prices, and profits play in a market economy. Key elements of the course include the study of scarcity and economic reasoning; supply and demand; market structures; the role of government; national economic performance; the role of financial institutions; economic stabilization; and trade.

- 1 trimester, Grade 12
- Fulfills the Economics requirement for Core 40/AHD diplomas
- Fulfills Social Studies course requirement for General Diploma
- Qualifies as a quantitative reasoning course

UNITED STATES GOVERNMENT

1540 (US GOVT)

United States Government provides a framework for understanding the purposes, principles, and practices of constitutional representative democracy in the United States. Responsible and effective participation of citizens is stressed. Students understand the nature of citizenship, politics, and governments and understand the rights and responsibilities of citizens and how these are part of local, state, and national government. Students examine how the United States Constitution protects rights and provides the structure and functions of various levels of government. Analysis of how the United States interacts with other nations and the government's role in world affairs is included in this course. Using primary and secondary resources, students will articulate, evaluate, and defend positions on political issues. As a result, they will be able to explain the role of individuals and groups in government, politics, and civic activities and the need for civic and political engagement of citizens in the United States.

- 1 trimester, Grade 12
- Students are required to take the naturalization test for citizenship
- Fulfills the Government requirement for all diplomas

UNITED STATES GOVERNMENT/POLS 113 TRINE UNIVERSITY

1540 (US GOVT)

United States Government provides a framework for understanding the purposes, principles, and practices of constitutional representative democracy in the United States. Responsible and effective participation of citizens is stressed. Students understand the nature of citizenship, politics, and governments and understand the rights and responsibilities of citizens and how these are part of local, state, and national government. Students examine how the United States Constitution protects rights and provides the structure and functions of various levels of government. Analysis of how the United States interacts with other nations and the government's role in world affairs is included in this course. Using primary and secondary resources, students will articulate, evaluate, and defend positions on political issues. As a result, they will be able to explain the role of individuals and groups in government, politics, and civic activities and the need for civic and political engagement of citizens in the United States.

- 1 trimester, Grade 12
- Prerequisite: Cumulative GPA of 3.0 or higher
- This is a dual credit course offered ONLINE through Trine University. Additional fees may apply.
- Fulfills the Government requirement for all diplomas

WORLD GEOGRAPHY

1546 (WORLD GEO)

World Geography allows students to study the interaction of humans and their environments in a world setting. Students study global patterns of physical and cultural characteristics, including the Earth/sun relationship, atmospheric and oceanic circulation, landforms, climate, vegetation, population, economic and political structures, culture, cultural diffusion, and international and interregional connections. Using maps, geographic representations and technology such as geographic information systems (GIS), students will examine spatial relationships, the interaction of physical and cultural characteristics of designated places, areas, or regions. Students are expected to apply knowledge of geographic concepts and uses of geography to inquiry, research, and use participatory processes. The themes of location, characteristic of place, human/environmental interaction, movement between places, and regions anchor the course content. Emphasized are elements of the National Geography Standards: The World in Spatial Terms, Places and Regions, Physical Systems, Human Systems and Environment and Society.

- 1 trimester, Grade 9-12
- Credits: 1 trimester course, 1 credit per trimester
- Fulfills Social Studies course requirement for General Diploma
- Counts as an Elective for all diplomas

ETHNIC STUDIES

1516 (ETH STUDIES)

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

- 1 trimester, Grade 10 – 12
- Students need to be prepared to make in-class presentations and complete research papers
- Counts as an Elective for all diplomas

TOPICS IN HISTORY- AMERICAN HISTORY THROUGH FILM

1538 (TOP HIST)

The American History through Film course offers students a unique way to learn and study American history through the Hollywood lens. This course will examine how various aspects in history are portrayed in films and contrast it with “what really happened.” Each unit will deal with a different topic or time period in United States history. Students will use a variety of primary sources to gain understanding of these events and how they have been portrayed in other sources besides the film. The course will demand upper level composition work by writing reaction and analysis papers of the films viewed in class, as well as participation in class discussions and group/ individual presentations. In addition to learning the historical accounts, student will explore character development, conflict, theme, symbolism, foreshadowing, and geographical/social/cultural settings.

- 1 trimester, Grade 11 – 12
- Credits: 1 trimester course, 1 credit
- Counts as an Elective for all diplomas

COMMUNITY SERVICE & SERVANT LEADERSHIP

0524 (COMM SERV)

Community Service is a course created by public law IC 20-30-14. Community service allows students in grades nine through twelve (HEA 1629) the opportunity to earn up to two high school credits for completion of approved community service projects or volunteer service that “relates to a course in which the student is enrolled or intends to enroll”.

- 1 trimester, Grades 9 – 12
- Credits: 1 trimester course, 1 credit. May be taken twice
- Students must complete application process and get teacher approval to enroll
- Counts as a Directed Elective or Elective for all diplomas

INDIANA STUDIES

1518 (IN STUDIES)

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

- 1 trimester, Grade 10 – 12
- Students need to be prepared to make in-class presentations and complete research papers
- Fulfills Social Studies course requirement for General Diploma
- Counts as an Elective for all diplomas

PSYCHOLOGY

1532 (PSYCH)

Psychology is the scientific study of mental processes and behavior. The course is divided into eight content areas: History and Scientific Method, Biological Basis for Behavior, Development, Cognition, Personality and Assessment, Abnormal Psychology, Socio-Cultural Dimensions of Behavior, and Psychological Thinking. History and Scientific Method explores the history of psychology, the research methods used, and the ethical considerations that must be utilized. Biological Basis for Behavior focuses on the way the brain and nervous system function, including sensation, perception, motivation and emotion. Development analyzes the changes through one's life including the physical, cognitive, emotional, social and moral development. Cognition focuses on learning, memory, information processing, and language development. Personality and Assessment explains the approaches used to explain one's personality and the assessment tools used. Abnormal Psychology explores psychological disorders and the various treatments used for them. Socio-Cultural Dimensions of Behavior covers topics such as conformity, obedience, perceptions, attitudes and influence of the group on the individual. Psychological Thinking explores how to think like a psychologist and expand critical thinking skills needed in the day-to-day life of a psychologist.

- 1 trimester, Grades 11 – 12
- Fulfills Social Studies course requirement for General Diplomas
- Counts as an Elective for all diplomas

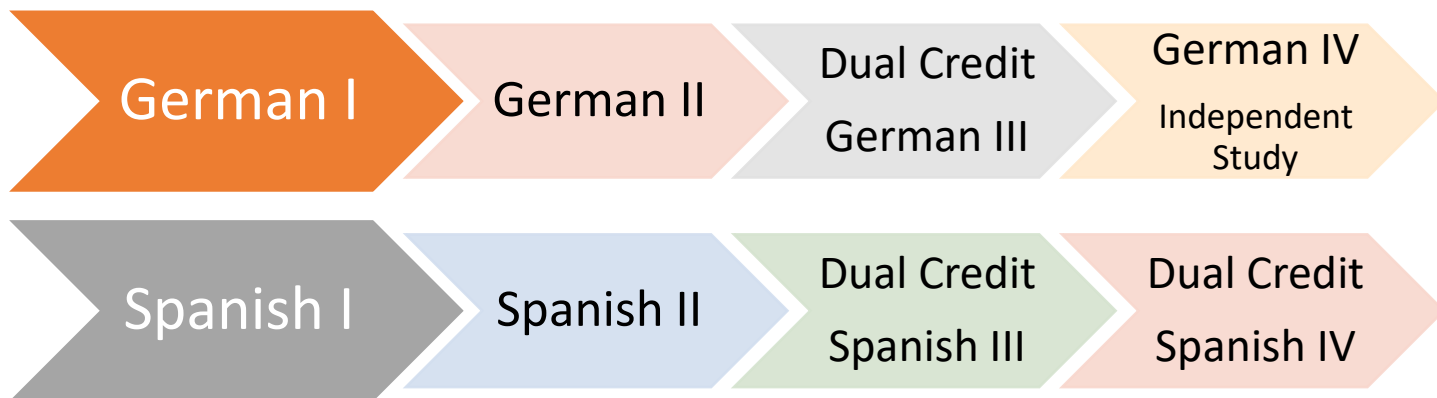
ECONOMICS/ECON 101 IVY TECH

1514 (ECON)

Economics examines the allocation of resources and their uses for satisfying human needs and wants. The course analyzes economic reasoning and behaviors of consumers, producers, savers, investors, workers, voters, institutions, governments, and societies in making decisions. Students explain that because resources are limited, people must make choices and understand the role that supply, demand, prices, and profits play in a market economy. Key elements of the course include the study of scarcity and economic reasoning; supply and demand; market structures; the role of government; national economic performance; the role of financial institutions; economic stabilization; and trade.

- 1 trimester, Grade 12
- This is a dual credit course offered through Ivy Tech. Additional fees may apply,
- Fulfills the Economics requirement for Core 40/AHD diplomas
- Fulfills Social Studies course requirement for General Diploma
- Qualifies as a quantitative reasoning course

WORLD LANGUAGES



GERMAN I

2040 (GER I)

German I, a course based on Indiana’s Academic Standards for World Languages, introduces students to effective strategies for beginning German language learning, and to various aspects of German-speaking culture. This course encourages interpersonal communication through speaking and writing, providing opportunities to make and respond to basic requests and questions, understand and use appropriate greetings and forms of address, participate in brief guided conversations on familiar topics, and write short passages with guidance. This course also emphasizes the development of reading and listening comprehension skills, such as reading isolated words and phrases in a situational context and comprehending brief written or oral directions. Additionally, students will examine the practices, products and perspectives of German-speaking culture; recognize basic routine practices of the target culture; and recognize and use situation-appropriate non-verbal communication. This course further emphasizes making connections across content areas and the application of understanding German language and culture outside of the classroom.

- 2 trimesters, Grades 9-12
- Prerequisite: “B” average in middle school English or a “C” or better average in high school English
- Counts as a Directed Elective or Elective for all diplomas
- Fulfills a World Language requirement for the Core 40 with Academic Honors diploma

GERMAN II

2042 (GER II)

German II, a course based on Indiana’s Academic Standards for World Languages, builds upon effective strategies for German language learning by encouraging the use of the language and cultural understanding for self-directed purposes. This course encourages interpersonal communication through speaking and writing, providing opportunities to make and respond to requests and questions in expanded contexts, participate independently in brief conversations on familiar topics, and write cohesive passages with greater independence and using appropriate formats. This course also emphasizes the development of reading and listening comprehension skills, such as using contextual clues to guess meaning and comprehending longer written or oral directions. Students will address the presentational mode by presenting prepared material on a variety of topics, as well as reading aloud to practice appropriate pronunciation and intonation. Additionally, students will describe the practices, products and perspectives of German-speaking culture; report on basic family and social practices of the target culture; and describe contributions from the target culture. This course further emphasizes making connections across content areas and the application of understanding German language and culture outside of the classroom.

- 2 trimesters, Grades 10-12
- Prerequisite: German I with a grade of “B-” or better or teacher approval
- Counts as a Directed Elective or Elective for all diplomas
- Fulfills a World Language requirement for the Core 40 with Academic Honors diploma

GERMAN III/GER 101/102 PURDUE UNIVERSITY

2044 (GER III)

German III, a course based on Indiana's Academic Standards for World Languages, builds upon effective strategies for German language learning by facilitating the use of the language and cultural understanding for self-directed purposes. This course encourages interpersonal communication through speaking and writing, providing opportunities to initiate, sustain and close conversations; exchange detailed information in oral and written form; and write cohesive information with greater detail. This course also emphasizes the continued development of reading and listening comprehension skills, such as using cognates, synonyms and antonyms to derive meaning from written and oral information, as well as comprehending detailed written or oral directions. Students will address the presentational mode by presenting student-created material on a variety of topics, as well as reading aloud to practice appropriate pronunciation and intonation. Additionally, students will continue to develop understanding of German-speaking culture through recognition of the interrelations among the practices, products and perspectives of the target culture; discussion of significant events in the target culture; and investigation of elements that shape cultural identity in the target culture. This course further emphasizes making connections across content areas as well the application of understanding German language and culture outside of the classroom.

- 2 trimesters, Grades 11-12
- Prerequisite: German II with a grade of "B-" or better or teacher approval
- This is a dual credit course offered through Purdue University Northwest. Additional fees may apply.
- Counts as a Directed Elective or Elective for all diplomas
- Fulfills a World Language requirement for the Core 40 with Academic Honors diploma

GERMAN IV – INDEPENDENT STUDY ONLY

2046 (GER IV)

German IV, a course based on Indiana's Academic Standards for World Languages, provides a context for integration of the continued development of language skills and cultural understanding with other content areas and the community beyond the classroom. The skill sets that apply to the exchange of written and oral information are expanded through emphasis on practicing speaking and listening strategies that facilitate communication, such as the use of circumlocution, guessing meaning in familiar and unfamiliar contexts, and using elements of word formation to expand vocabulary and derive meaning. Additionally, students will continue to develop understanding of German-speaking culture through explaining factors that influence the practices, products, and perspectives of the target culture; reflecting on cultural practices of the target culture; and comparing systems of the target culture and the student's own culture. This course further emphasizes making connections across content areas through the design of activities and materials that integrate the target language and culture with concepts and skills from other content areas. The use and influence of the German language and culture in the community beyond the classroom is explored through the identification and evaluation of resources intended for native German speakers.

- 1 or 2 trimesters, Grade 12
- Prerequisite: German III with a grade of "B-" minimum
- **Students must apply for this course and get teacher approval**
- Counts as a Directed Elective or Elective for all diplomas
- Fulfills a World Language requirement for the Core 40 with Academic Honors diploma

SPANISH I

2120 (SPAN I)

Spanish I, a course based on Indiana's Academic Standards for World Languages, introduces students to effective strategies for beginning Spanish language learning, and to various aspects of Spanish-speaking culture. This course encourages interpersonal communication through speaking and writing, providing opportunities to make and respond to basic requests and questions, understand and use appropriate greetings and forms of address, participate in brief guided conversations on familiar topics, and write short passages with guidance. This course also emphasizes the development of reading and listening comprehension skills, such as reading isolated words and phrases in a situational context and comprehending brief written or oral directions. Additionally, students will examine the practices, products and perspectives of High School Course Titles and Descriptions 2022-2023 221 Spanish-speaking culture; recognize basic routine practices of the target culture; and recognize and use situation-appropriate non-verbal communication. This course further emphasizes making connections across content areas and the application of understanding Spanish language and culture outside of the classroom.

- 2 trimesters, Grades 9-12
- Prerequisite – "B" average in middle school English or a "C" or better average in high school English
- Counts as a Directed Elective or Elective for all diplomas
- Fulfills a World Language requirement for the Core 40 with Academic Honors diploma

SPANISH II

2122 (SPAN II)

Spanish II, a course based on Indiana's Academic Standards for World Languages, builds upon effective strategies for Spanish language learning by encouraging the use of the language and cultural understanding for self-directed purposes. This course encourages interpersonal communication through speaking and writing, providing opportunities to make and respond to requests and questions in expanded contexts, participate independently in brief conversations on familiar topics, and write cohesive passages with greater independence and using appropriate formats. This course also emphasizes the development of reading and listening comprehension skills, such as using contextual clues to guess meaning and comprehending longer written or oral directions. Students will address the presentational mode by presenting prepared material on a variety of topics, as well as reading aloud to practice appropriate pronunciation and intonation. Additionally, students will describe the practices, products and perspectives of Spanish-speaking culture; report on basic family and social practices of the target culture; and describe contributions from the target culture. This course further emphasizes making connections across content areas and the application of understanding Spanish language and culture outside of the classroom.

- 2 trimesters, Grades 10-12
- Prerequisite: Spanish I with a grade of "B-" minimum or teacher approval
- Counts as a Directed Elective or Elective for all diplomas
- Fulfills a World Language requirement for the Core 40 with Academic Honors diploma

SPANISH III/SPN 113/123 TRINE UNIVERSITY

2124 (SPAN III)

Spanish III, a course based on Indiana's Academic Standards for World Languages, builds upon effective strategies for Spanish language learning by facilitating the use of the language and cultural understanding for self-directed purposes. This course encourages interpersonal communication through speaking and writing, providing opportunities to initiate, sustain and close conversations; exchange detailed information in oral and written form; and write cohesive information with greater detail. This course also emphasizes the continued development of reading and listening comprehension skills, such as using cognates, synonyms and antonyms to derive meaning from written and oral information, as well as comprehending detailed written or oral directions. Students will address the presentational mode by presenting student-created material on a variety of topics, as well as reading aloud to practice appropriate pronunciation and intonation. Additionally, students will continue to develop understanding of Spanish-speaking culture through recognition of the interrelations among the practices, products and perspectives of the target culture; discussion of significant events in the target culture; and investigation of elements that shape cultural identity in the target culture. This course further emphasizes making connections across content areas as well the application of understanding Spanish language and culture outside of the classroom.

- 2 trimesters, Grades 11-12
- Prerequisite: Spanish II with a grade of "B-" minimum or teacher approval
- This is a dual credit course offered through Trine University. Additional fees may apply.
- Counts as a Directed Elective or Elective for all diplomas
- Fulfills a World Language requirement for the Core 40 with Academic Honors diploma

SPANISH IV/SPN 203/213 TRINE UNIVERSITY

2126 (SPAN IV)

Spanish IV, a course based on Indiana's Academic Standards for World Languages, provides a context for integration of the continued development of language skills and cultural understanding with other content areas and the community beyond the classroom. The skill sets that apply to the exchange of written and oral information are expanded through emphasis on practicing speaking and listening strategies that facilitate communication, such as the use of circumlocution, guessing meaning in familiar and unfamiliar contexts, and using elements of word formation to expand vocabulary and derive meaning. Additionally, students will continue to develop understanding of Spanish-speaking culture through explaining factors that influence the practices, products, and perspectives of the target culture; reflecting on cultural practices of the target culture; and comparing systems of the target culture and the student's own culture. This course further emphasizes making connections across content areas through the design of activities and materials that integrate the target language and culture with concepts and skills from other content areas. The use and influence of the Spanish language and culture in the community beyond the classroom is explored through the identification and evaluation of resources intended for native Spanish speakers.

- 2 trimesters, Grade 12
- Prerequisite: Spanish III with a grade of "B-" minimum or teacher approval
- This is a dual credit course offered through Trine University. Additional fees may apply.
- Counts as a Directed Elective or Elective for all diplomas
- Fulfills a World Language requirement for the Core 40 with Academic Honors diploma

MULTIDISCIPLINARY COURSES*

CADET TEACHING EXPERIENCE

0502 (CADET TCHG)

This course gives students an opportunity to “test” their interest in becoming future educators. Part of the trimester is devoted to developing teaching skills and an awareness of current educational issues. Eight weeks are spent “on site” in an elementary or middle school classroom as an intern with a professional educator. Students usually take first trimester cadet teaching, and then second and third trimester is optional.

- 1 trimester, Grades 11-12
- Prerequisite: 3.0 Cumulative GPA and instructor approval
- This course is 2 periods; 1 credit
- Students must be able to provide their own transportation
- Cadet teaching experience for high school students is limited to grades kindergarten through grade nine
- Counts as a Directed Elective or Elective for all diplomas

PEER TUTORING – K THROUGH 8

0520 (PEER TUTR)

Peer Tutoring provides high school students with an organized exploratory experience to assist students in kindergarten through grade twelve (K-12), through a helping relationship, with their studies and personal growth and development. The course provides opportunities for the students taking the course to develop a basic understanding of individual differences and to explore career options in related fields. Peer Tutoring experiences are preplanned by the teacher trainer and any cooperating teacher under whom the tutoring is to be provided. It must be conducted under the supervision of a licensed teacher. The course provides a balance of class work relating to the development of and use of: (1) listening skills, (2) communication skills, (3) facilitation skills, (4) decision-making skills, and (5) teaching strategies.

- 1 trimester, Grades 11 – 12
- Prerequisite: 3.0 Cumulative GPA and 95% Attendance
- Peer Tutoring (K-8 and Life Skills) can be taken for a total of two trimesters
- Students must be able to provide their own transportation to tutoring site
- Counts as an Elective for all diplomas

PEER TUTORING – LIFE SKILLS

0520 (PEER TUTR)

Peer Tutoring provides high school students with an organized exploratory experience to assist students in kindergarten through grade twelve (K-12), through a helping relationship, with their studies and personal growth and development. The course provides opportunities for the students taking the course to develop a basic understanding of individual differences and to explore career options in related fields. Peer Tutoring experiences are preplanned by the teacher trainer and any cooperating teacher under whom the tutoring is to be provided. It must be conducted under the supervision of a licensed teacher. The course provides a balance of class work relating to the development of and use of: (1) listening skills, (2) communication skills, (3) facilitation skills, (4) decision-making skills, and (5) teaching strategies.

- 1 trimester, Grades 11 – 12
- Prerequisite: 3.0 Cumulative GPA and 95% Attendance
- Peer Tutoring (K-8 and Life Skills) can be taken for a total of two trimesters
- Students will be working at NorthWood High School supporting the students in the Life Skills program
- Counts as an Elective for all diplomas

CAREER EXPLORATION INTERNSHIP

0530 (CARR EXP)

The Career Exploration Internship course is a paid or unpaid work experience in the public or private sector that provides for workplace learning in an area of student career interests. Unlike the work-based Learning capstone course in which students gain expertise in a specific occupation, the career exploration internship is intended to expose students to broad aspects of an industry or career cluster area by rotating through a variety of work sites or departments. In addition to their workplace learning activities, students participate in 1) regularly scheduled meetings with their classroom teacher, or 2) a regularly scheduled seminar with the teacher for the purpose of helping students make the connection between academic learning and their work-related experiences. Specific instructional standards tied to the career cluster or pathway and learning objectives for the internship must be written to clarify the expectations of all parties – the student, parent, employer, and instructor

- 1 or 2 credit per trimester (Can be 2 or 3 periods), 6 credit maximum, Grades 11 – 12
- Recommended Prerequisite: Preparing for College and Careers
- Students must be able to provide their own transportation and complete required waiver forms
- Counts as a Directed Elective or Elective for all diplomas

WORK BASED LEARNING CAPSTONE

5974 (WBL)

This course provides a unique opportunity for senior students to experience work-based activities in career areas of interest. The Internship will occur during school hours and vary from student to student. Documentation of bi-weekly time sheets, attendance, performance reviews and completion of required activities will determine the final grade. The experience will provide for post-secondary placement. This experience is an extension of the normal academic school program on a voluntary basis and is not for pay.

- 1 credit per trimester (Can be 2 or 3 periods), 6 credit maximum, Grade 12
- Required Prerequisites: Complete at least one advanced CTE course that aligns to the worksite placement
- Students must be able to provide their own transportation and complete required waiver forms
- Counts as a Directed Elective or Elective for all diplomas

**These programs may require an application, interview and special permission by an administrator.*

APPENDIX A: QUANTITATIVE REASONING COURSES

- ACCOUNTING CAPSTONE
 - 7522 (ACCT CAP)
- ADVANCED LIFE SCIENCE: ANIMALS
 - 5070 (ALS ANIML)
- AP COMPUTER SCIENCE A
 - 4570 (COMP SCI AP)
- AP COMPUTER SCIENCE PRINCIPLES
 - 4568 (CPS AP)
- AP PHYSICS
 - 3080 (PHYS I AP)
- COMPUTER SCIENCE I
 - 4801 (COM SCI I)
- COMPUTER SCIENCE II: PROGRAMMING
 - 5236 (CS II PROG)
- ADVANCED ACCOUNTING
 - 4522 (ADV ACC)
- ADVANCED MANUFACTURING II
 - 5606 (ADV MFTG II)
- CHEMISTRY I
 - 3064 (CHEM I)
- PHYSICS I
 - 3084 (PHYS I)
- ECONOMICS
 - 1514 (ECON)