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Academic Guide

"Excellence in Education"
2019-2020 Academic Year

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The administration, guidance department, and teaching staff have contributed to this document; their work has resulted in what we hope is a very informative and complete guide to academics at Princeton Community High School. For additional information related to courses in the subject areas, please contact the Guidance Counseling Office.

High School Glossary

AP Courses – Classes offered to high school juniors and seniors that may count as high school and college credit. A specific score on an AP final exam determines college credit.

Core 40 Diploma – High school “core” subjects required for admission to most Indiana colleges/universities and recommended for training and careers. Completion of Core 40 will influence college financial aid as well.

Core 40 with Academic Honors – A rigorous curriculum designed by the State of Indiana. Specific courses, grades, and GPA are required, including 47 credits, 3.0 GPA, and no semester grade lower than a C-. AP classes, dual credit, and/or minimum SAT/ACT scores are also required.

Core 40 with Technical Honors – A rigorous curriculum requiring 47 credits and completion of a career-technical program with state certification and a GPA of 3.0 with no grade below C-. Dual credits, at least 6 technical courses, and passing the Work Keys exam also required.

Credit – Awarded for successful completion of a semester course (1 period/ day).

Dual Credit – High school course which follows college curriculum and results in both high school and college credit. Please see the Dual Credit Offerings spreadsheet on the guidance site for courses offered as dual credit.

Electives – Non-required courses taken to achieve credit for graduation.

Grade point average – The point value of all semester grades divided by the number of GPA credits. See Agenda Book.

NCAA Eligibility Center – Students who wish to compete at Division I, II, or III levels of college athletics must register to have classes evaluated for eligibility. Specific requirements are listed on the NCAA Eligibility Center website. www.eligibilitycenter.org

Harmony Parent Connect – gives parents access to grades, attendance, etc., for their student. Information located on the NGSC website.

PCHS Planner/Agenda Book – A book that each PCHS student receives on the first day of school. This book contains vital information such as school rules and policies, internet agreement, emergency card, calendar, etc.

PCHS Website –contains announcements, guidance news and scholarship information, teacher sites, etc. <http://ngsc.k12.in.us/guidance-department>

Prerequisite – Course required to be completed before another course is taken.

Requirement – Course students must pass to receive a diploma/graduate.

Transcript – A permanent record of courses completed Grades 9-12. It includes semester grades received, attendance, GPA, class rank, credits, and test scores.

Graduation Pathways **Parent** Overview

What?

Graduation Pathways: Students must meet at least one requirement in each bucket

Bucket #1 Earn at least one diploma designation

Bucket #2 Learn and Demonstrate Employability Skills through experiential learning
All experiences require students to create a work-product that demonstrates their development of employability skills such as a presentation, portfolio, or letter of employment verification.

Bucket #3 Satisfy at least one Postsecondary-Ready Competency

Who/When?

- Becomes a requirement for our current 8th grade students (Class of 2023).
- Current 9th, 10th, 11th, and 12th grade students may use Graduation Pathways to graduate if offered by the school.

Why?

- Approved by the State Board of Education in December 2017.
- Align graduation requirements to prepare students for careers and college in a more personalized manner.
- Students have options, moving away from the “one size fits all” approach.
- Requirements encourage students to develop their professional/employability skills such as teamwork, organization, perseverance, time management, decision-making, and pride in work.

Frequently Asked Questions

1. Does my student still have to take the ISTEP+?

All students should take the ISTEP+ Grade 10 during their grade 10 year, regardless of whether they pursue Graduation Pathways. Beyond grade 10, there is no requirement for the student to continue to retake the assessment, if pursuing the Graduation Pathways in lieu of the graduation exam.

2. How do students “opt-in” to Graduation Pathways?

As long as a school offers Graduation Pathways as an option for students, then students can “opt-in”. There are new fields in the Graduation Report to indicate which Graduation Pathway Requirement options students have satisfied.

3. Where can I find out more about Graduation Pathways including resources and more in-depth information?

Visit <https://www.doe.in.gov/graduation-pathways> to learn more.

Weighted Grades- Beginning with the class of 2019, grades in selected courses will be earned on a 4.5 point scale rather than the standard 4.0.

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MISCELLANEOUS

NCAA Eligibility Requirements

Indiana Diplomas **Extremely important when choosing courses.

HIGH SCHOOL GRADUATION

Graduation: It is the responsibility of each student to plan with his or her parents and counselor for graduation. Seeing that all required courses and total credits are in order is the responsibility of each student. Graduation checklists are on file in the Guidance Counseling Office, but the ultimate responsibility to meet all graduation requirements lies with the student and parent/guardian. The State of Indiana requires each student beginning with the Class of 2011 to complete a Core 40 curriculum. Students who are unable to meet these requirements must meet with the principal, counselor, and parent to discuss “Opting Out” of the Core 40 and receiving a General High School Diploma.

Core 40 End-of-Course Assessments: Beginning with the Class of 2019, students are required to pass the ISTEP+ Grade 10 Math and English Language Arts assessments. Students who do not achieve a passing score on one or both of the sections may be eligible for a waiver if the following requirements are met:

- 1) Take ISTEP+ test each testing window for each subject in which the student did not receive a passing score at least one time each school year.
- 2) Complete remediation opportunities provided by the school.
- 3) Maintain a high school attendance rate of 95% with excused absences not counting toward the rate.
- 4) Maintain a “C” average in the courses specifically required for graduation.
- 5) Obtain a written recommendation, supported by documentation that the student has met the academic standard measured by ISTEP+ assessment, from a teacher of the student in each subject area in which the student has not achieved a passing score and concurrence by the principal with the recommendation.

Princeton Community High School will administer the ISTEP+ only to students currently enrolled at PCHS. Individuals who are enrolled in a fulltime home school are not eligible for testing at PCHS.

Testing information is available directly from the Indiana Department of Education at:
<http://www.doe.in.gov/assessment/end-course-assessments-ecas>

POLICIES RELATED TO SCHEDULING

Course Scheduling: Students will meet with their counselors to enroll. Parents may also schedule appointments with their son's or daughter's counselor. Schedules will be final after approved by the PCHS Guidance Counselors by the first day of the new school year, unless a change is mandated by the school principal.

Schedule Change: Students are expected to give careful consideration to course selections when they are made. ONCE A STUDENT HAS TURNED IN THEIR SIGNED *Registration Confirmation Sheet*, SCHEDULE CHANGES WILL BE MADE FOR THE FOLLOWING REASONS ONLY: 1) computer input error, 2) course cancellation, 3) course conflict, and 4) failure to meet a prerequisite. After school begins, **NO SCHEDULE CHANGE WILL BE MADE EXCEPT WITH ADMINISTRATIVE APPROVAL.**

Minimum Credit Load: All students must enroll in seven classes each semester; exceptions will be made only with administrative and guidance counseling approval or for those Juniors and Seniors who are enrolled in advanced classes; other exceptions will include students who have Individual Education Plans.

ITEMS TO CONSIDER WHEN DESIGNING YOUR HIGH SCHOOL COURSE PLAN

Career pathways are available at http://doe.state.in.us/publications/pdf_other/pathways.pdf

Additional information is available through the Learn More Resource Center concerning careers as well as study skills, post-secondary schools, etc. Hotline is 1-800-992-2076 or visit www.learnmoreindiana.org

Post High School Admissions Requirements: In general, the Indiana Core 40 Curriculum prepares students for a wide variety of postsecondary educational options including four-year colleges, community college, apprenticeship programs, technical schools, occupational training in the military, and on-the-job training. *Students applying on-line to any school must tell their counselor, so that the counselor can send transcripts and other appropriate materials. An admission decision will be delayed until a student's file is complete.*

Four-Year Colleges: The National Association of College Admissions Counselors (NACAC) recommends that students take the following courses as a preparation for four-year colleges: four years of English, four years of math, 3-4 years of laboratory science, 3-4 years of social studies, 2-3 years of foreign language, computer science, and visual and performing arts. Indiana students who are preparing for a four-year college take the Indiana Core 40 Curriculum. For some colleges, courses beyond the Core 40 curriculum are required for admissions. Students should review the admissions requirements for each college they are considering.

Two-Year Colleges: Ivy Tech Community College and Vincennes University offer many vocational and transfer programs. Students can complete the first two years of college at a campus near their home. Credits earned may be transferred to four-year colleges and applied toward a bachelor degree. Both have open admissions. However, to be successful and to not be required to take remedial courses, high school students are encouraged to take the Indiana Core 40 Curriculum.

Apprenticeship Programs: Apprenticeship programs are registered with the Indiana Bureau of Apprenticeship Training. Many of these apprenticeship programs have entry tests that prospective students must take prior to admissions. To prepare for these tests, students are encouraged to take a curriculum strong in math and communications. Students are encouraged to take the Indiana Core 40 Curriculum as a preparation for apprenticeship programs.

Postsecondary Vocational Programs: Many postsecondary institutions specializing in vocational / technical education exist in Indiana. These schools award certificates and/or associate degrees. Admission at these institutions is usually open to all students. However, to be successful at Indiana's vocational / technical schools, it is recommended that students take the Indiana Core 40 Curriculum.

Occupational Skill Training in the Military: Students may continue their education through one of many occupational skill training opportunities in the military. Skills learned in the military can transfer to approximately 150 different civilian careers. Students interested in the military must take the ASVAB exam for admissions. To be successful in the various occupational skill training opportunities in the military, it is recommended that students take the Indiana Core 40 Curriculum.

On-The-Job Training: On-the-job training is provided by employers who pay their employees to participate in the training. To be successful, it is recommended that students take the Indiana Core 40 Curriculum.

College Admissions Tests (SAT and ACT)

Two organizations provide testing for college admissions. College Board publishes the SAT while ACT, Inc. publishes the ACT. Students are encouraged to begin college admissions testing in the spring of their junior year. Many students will take the test more than once to increase their chances of doing well. Most colleges will take the best test scores received by a student so taking the test more than once does not penalize a student in any way. In addition to college admissions, the results of these tests may also be used to award merit-based scholarships.

Vincennes University and Ivy Tech Admissions Testing

Vincennes University offers an admissions test in addition to the SAT or ACT for VU applicants to take at VU or in the PCHS Guidance Office with special arrangements. Ivy Tech admissions testing may be scheduled at Ivy Tech in Princeton.

Practice College Admissions Tests (PSAT and PLAN)

College Board and ACT, Inc. both offer practice tests for students. College Board's PSAT test is given in the fall of the sophomore year at PCHS. The results of this test are also used to determine a student's eligibility for the National Merit Scholarship Program. ACT's practice test, is the PLAN, which includes a career interest inventory, and is given upon administration and the guidance counselors' discretion.

Armed Services Vocational Aptitude Battery (ASVAB)

The ASVAB is a test that is available to sophomores, juniors, and seniors. It is a test that measures a student's readiness to become proficient in a certain type of work (aptitude). Through the ASVAB test, students qualify for various training opportunities in the military, many of which have related occupations in civilian life. The ASVAB also includes a career interest inventory and is administered at PCHS in February. There is no military commitment if the test is taken.

Apprenticeship Training Admissions Tests

Many apprenticeship programs give students tests to determine their ability to succeed as an apprentice and/or their need for remediation. For example, the carpenter's apprenticeship test includes math required to perform calculations needed on the job. Many apprenticeship programs will provide students with practice assessments upon request.

NCAA Athletic Eligibility

Many college athletic programs are regulated by the National Collegiate Athlete Association (NCAA), an organization that establishes rules on eligibility, recruiting, and financial aid for athletes. Students planning to enroll in college and participate in Division I or Division II athletics must be certified by the NCAA Initial-Eligibility Center. Students should visit www.eligibilitycenter.org to start the certification process during their junior year. A list of approved courses at PCHS is posted on this website and detailed requirements are listed in the Miscellaneous section of this guide. See NCAA Eligibility requirements at the end of the Academic Guide.

SCHOLARSHIPS

Scholarship listings are posted daily on the scrolling building announcements. In addition, the Guidance Counseling Department keeps a calendar posted outside the Guidance Counseling office. Announcements are also posted on the Guidance Counseling website ngsc.schoolfusion.us. Guidance counselors meet with the senior class periodically to answer questions and share information. Parents and students are ultimately responsible for obtaining applications from the Guidance Counseling Office and completing them on time. Some scholarship applications are also available online. Most colleges have on-line applications for admission and scholarships.

When any application is completed online, students should inform their guidance counselor.

COURSE DESCRIPTIONS

Agriculture

5056 INTRODUCTION TO AGRICULTURE, FOOD AND NATURAL RESOURCE

Introduction to Agriculture, Food and Natural Resources is a two semester course that is highly recommended as a prerequisite to and a foundation for all other agricultural classes. The nature of this course is to provide students with an introduction to the fundamentals of agricultural science and business. Topics to be covered include: animal science, plant and soil science, food science, horticultural science, agricultural business management, landscape management, natural resources, agriculture power, structure and technology, leadership development, supervised agricultural experience and career opportunities in the area of agriculture10 food and natural resources.

Recommended Grade Level: Grade 9

Recommended Prerequisites: None

Credits: 1 credit per semester, maximum of 2 semesters, maximum of 2 credits

Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

5180 NATURAL RESOURCES

Natural Resources is a two semester course that provides students with a foundation in natural resources. Hands-on learning activities in addition to leadership development, supervised agricultural experience and career exploration 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, rangelands, wetlands, animal wildlife and safety.

Recommended Grade Level: Grade 10-12

Recommended Prerequisites: Introduction to Agriculture, Food and Natural Resources

Credits: 1 credit per semester, maximum of 2 semesters, maximum of 2 credits

Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

Fulfills a science course requirement for all diplomas

5170 PLANT AND SOIL SCIENCE

Plant and Soil Science is a two semester course that provides students with opportunities to participate in a variety of activities which includes laboratory work. The following topics are found in this course: plant taxonomy, components and their functions; plant growth, reproduction and propagation; photosynthesis and respiration; environmental factors effecting plant growth, management of plant diseases and pests; biotechnology; the basic components and types of soil; calculation of fertilizer application rates and procedures for application; soil tillage and conservation; irrigation and drainage; land measurement, cropping systems, precision agriculture, principles and benefits of global positioning systems; and harvesting. Supervised agricultural experience and career exploration opportunities in the field of plant and soil science are also included.

Recommended Grade Level: Grade 11-12

Recommended Prerequisites: Introduction to Agriculture, Food and Natural Resources

Credits: 1 credit per semester, maximum of 2 semesters, maximum of 2 credits

Fulfills a Life Science or Physical Science requirement for the General Diploma only or counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

Fulfills a science course requirement for all diplomas

5088 AGRICULTURE POWER, STRUCTURE AND TECHNOLOGY (Previously Ag. Mech.)

Agriculture Power, Structure and Technology is a two semester, up to six credits, 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. • Recommended Grade: 10, 11, 12 • Required Prerequisites: none • Recommended Prerequisites: Introduction to Agriculture, Food and Natural Resources • Credits: 2 semester course, 2 semesters required, 1-3 credit(s) per semester, 6 credits maximum • Counts as a Directed Elective or Elective for all diplomas

Dual Credit option IVY Tech AGRI 106

5102 FOOD IMPORTANCE AND CAREERS

Food Science is a two semester course that provides students with an overview of food science and its importance. Introduction to principles of food processing, food chemistry and physics, nutrition, food microbiology, preservation, packaging and labeling, food commodities, food regulations, issues and careers in the food science industry help students understand the role that food science plays in securing a safe, nutritious and adequate food supply. A project-based approach is utilized along with laboratory, team building and problem solving activities to enhance student learning, leadership development, supervised agricultural experience and career opportunities in the area of food science.

Recommended Grade Level: Grade 10-12

Recommended Prerequisites: Introduction to Agriculture, Food and Natural Resources

Credits: 1 credit per semester, maximum of 2 semesters, maximum of 2 credits

Fulfills a Life Science or Physical Science requirement for the General Diploma only or counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

5008 ANIMAL CARE

Animal Science is a two-semester program 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. • Recommended Grade: 10, 11 • Required Prerequisites: none • Recommended Prerequisites: Introduction to Agriculture, Food and Natural Resources • Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum • Counts as a Directed Elective or Elective for all diplomas. •

Fulfills a science course requirement for all diplomas

Dual Credit option IVY TECH AGRI 103

5776 WELDING TECHNOLOGY I

Welding Technology I includes classroom and laboratory experiences that develop a variety of skills in oxy-fuel cutting and Shielded Metal Arc welding. This course is designed for individuals who intend to make a career as a Welder, Technician, Sales, Designer, Researcher or Engineer. Emphasis is placed on safety at all times. OSHA standards and guidelines endorsed by the American Welding Society (AWS) are used. Instructional activities emphasize properties of metals, safety issues, blueprint reading, electrical principles, welding symbols, and mechanical drawing through projects and exercises that teach students how to weld and be prepared for college and career success. • Recommended Grade: 11, 12 • Required Prerequisites: none • Recommended Prerequisites: none • Credits: 2 semester course, 2 semesters required, 1-3 credits per semester, 6 credits maximum • Counts as a Directed Elective or Elective for all diplomas

Dual Credit option IVY TECH 1st semester INDT 114, 2nd semester WELD 108

5778 WELDING TECHNOLOGY II

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

Recommended Grade Level: Offered only to seniors who have completed Weld Tech I

Recommended Prerequisites: Welding Technology I

Credits: 2-3 credits per semester, 2 semesters maximum, maximum of 6 credits

Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

5002 AGRIBUSINESS MANAGEMENT

Agribusiness Management provides foundation concepts in agricultural business. It is a two semester course that introduces students to the principles of business organization and management from a local and global perspective, with the utilization of technology. Concepts covered in the course include; accounting and record keeping, business planning and management, food and fiber, forms of business, finance, management, sales and marketing, careers, leadership development. Students will demonstrate principles and techniques for planning, development, application and management of agribusiness systems through a supervised agriculture experience (Work-based learning) programs. • Recommended Grade: 11, 12 • Required Prerequisites: none • Recommended Prerequisites: Introduction to Agriculture, Food and Natural Resources • Credits: 2 semester course, 2 semesters

required, 1 credit per semester, 2 credits maximum 76 Indiana Department of Education High School Course Titles and Descriptions • Counts as an Elective or Directed Elective for all diplomas. • Qualifies as a quantitative reasoning course

Dual Credit option VU AGBS 101

Qualifies as a Quantitative Reasoning course for the General diploma only

Art

4000 INTRO 2D & 3D 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. • Recommended Grade: 9, 10, 11, 12 • Required Prerequisites: none • Recommended Prerequisites: none • Credits: 1 semester course, 1 credit per semester • Counts as a Directed Elective or Elective for all diplomas • Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma • Laboratory course

4004 ADVANCED 2D & 3D ART

Advanced Two-Dimensional Art is a course based on the Indiana Academic Standards for Visual Art. Students in this course builds on the sequential learning experiences of Introduction to Two-Dimensional Art that encompass art history, art criticism, aesthetics, and production 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. • Recommended Grade: 9, 10, 11, 12 • Required Prerequisites: none • Recommended Prerequisites: Introduction to Two-Dimensional Art (L) • Credits: 1 semester course, 1 credit per semester. The nature of this course allows for successive semesters of instruction at an advanced level provided that defined proficiencies and content standards are utilized. • Counts as a Directed Elective or Elective for all diplomas • Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma • Laboratory Course

4040 DRAWING & 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. • Recommended Grade: 10, 11, 12 • Required Prerequisites: none • Recommended Prerequisites: Introduction to Two-Dimensional Art (L), Introduction to Three-dimensional Art (L) • Credits: 1 semester course, 1 credit per semester. The nature of this course allows for successive semesters of instruction at an advanced level provided that defined proficiencies and content standards are utilized • Counts as a Directed Elective or Elective for all diplomas • Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma • Laboratory Course

4044 PAINTING & SCULPTURE

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 work. 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. • Recommended Grade: 10, 11, 12 • Required Prerequisites: none • Recommended Prerequisites: Introduction to Two-Dimensional Art (L), Introduction to Three Dimensional Art (L) 213 Indiana Department of Education High School Course Titles and Descriptions • Credits: 1 semester course, 1 credit per semester. The nature of this

course allows for successive semesters of instruction at an advanced level provided that defined proficiencies and content standards are utilized. • Counts as a Directed Elective or Elective for all diplomas • Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma • Laboratory course

Business Education

5394 PREPARING FOR COLLEGE AND CAREERS *offered in 8th grade

Addresses the knowledge, skills, and behaviors all students need to be prepared for success in college, career, and life. The focus of the course is the impact of today's choices on tomorrow's possibilities. Topics to be addressed include twenty-first century life and career skills; higher order thinking, communication, leadership, and management processes; exploration of personal aptitudes, interests, values, and goals; examining multiple life roles and responsibilities as individuals and family members; planning and building employability skills; transferring school skills to life and work; and managing personal resources. This course includes reviewing the 16 national career clusters and Indiana's College and Career Pathways, in-depth investigation of one or more pathways, reviewing graduation plans, developing career plans, and developing personal and career portfolios. A project-based approach, including computer and technology applications, cooperative ventures between school and community, simulations, and real life experiences, is recommended.

5232 Interactive Media

Interactive Media prepares students for careers in business and industry working with interactive media products and services which includes the entertainment industries. This course emphasizes the development of digitally-generated or computer-enhanced products using multimedia technologies. Students will develop an understanding of professional business practices including the importance of ethics, communication skills, and knowledge of the "virtual workplace." • Recommended Grade: 11, 12 • Required Prerequisites: none • Recommended Prerequisites: Introduction to Communications; Digital Applications and Responsibility • Credits: 2 semester course, 2 semesters required, 1-3 credits per semester, 6 credits maximum • Counts as a Directed Elective or Elective for all diplomas

4524 INTRODUCTION TO ACCOUNTING

Introduction to Accounting introduces the language of business using Generally Accepted Accounting Principles (GAAP) and procedures for proprietorships and partnerships using double-entry accounting. Emphasis is placed on accounting principles as they relate to both manual and automated financial systems. This course involves understanding, analyzing, and recording business transactions and preparing, analyzing, and interpreting financial reports as a basis for decision-making. • Recommended Grade: 10, 11 • Required Prerequisites: none • Recommended Prerequisites: none • Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum • Counts as a Directed Elective or Elective for the all diplomas

4522 ADVANCED ACCOUNTING

Advanced Accounting expands on the Generally Accepted Accounting Principles (GAAP) and procedures for proprietorships and partnerships using double-entry accounting covered in Introduction to Accounting. Emphasis is placed on accounting principles as they relate to both manual and automated financial systems. This course involves understanding, analyzing, and recording business transactions and preparing, analyzing, and interpreting financial reports as a basis for decision-making. • Recommended Grade: 11, 12 • Required Prerequisites: Introduction to Accounting • Recommended Prerequisites: none • Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum • Counts as a Directed Elective or Elective for all diplomas • Qualifies as a quantitative reasoning course

4540 PERSONAL FINANCIAL RESPONSIBILITY

Personal Financial Responsibility addresses the identification and management of personal financial resources to meet the financial needs and wants of individuals and families, considering a broad range of economic, social, cultural, technological, environmental, and maintenance factors. This course helps students build skills in financial responsibility and decision making; analyze personal standards, needs, wants, and goals; identify sources of income, saving and investing; understand banking, budgeting, record-keeping and managing risk, insurance and credit card debt. A project based approach and applications through authentic settings such as Work-based observations and service learning experiences are appropriate. Direct, concrete applications of mathematics proficiencies in projects are encouraged. • Recommended Grade: 10, 11, 12 • Required Prerequisites: none • Recommended Prerequisites: none • Credits: 1 credit per semester, 1 credit maximum • Counts as a Directed Elective or Elective for all diplomas Qualifies as a quantitative reasoning course

4801 COMPUTER SCIENCE I

Computer Science I introduces the structured techniques necessary for the 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.

Students may take the AP test in May to potentially earn college credit.

Grade Level: 10-12 Credits: 2 semester course, 2 semesters required, 1-3 credit per semester, 6 credits max

5236 COMPUTER SCIENCE II

Computer Science II explores and builds skills in programming and a basic understanding of the fundamentals of procedural program development using structured, modular concepts. 67 Indiana Department of Education High School Course Titles and Descriptions 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. • Recommended Grade: 11, 12 146 Indiana Department of Education High School Course Titles and Descriptions • Required Prerequisites: Computer Science I • Recommended Prerequisites: none • Credits: 2 semester course, 2 semesters required, 1-3 credits per semester, 6 credits maximum • Counts as a Directed Elective or Elective for all diplomas • Fulfills a science course requirement for all diplomas • Qualifies as a quantitative reasoning course

5230 INFORMATION TECHNOLOGY SUPPORT I

Information Technology Support (formerly computer tech support) allows students to explore how computers work. Students learn the functionality of hardware and software components as well as suggested best practices in maintenance and safety issues. Through hands-on activities and labs, students learn how to assemble and configure a computer, install operating systems and software, and troubleshoot hardware and software problems. Grade Level: 10, 11 Pre-Req: Digital Apps and Responsibility Credits: 2 semester course, 2 semesters required, 1-3 credits per semester, 6 credits maximum

5234 NETWORKING I

Networking I introduces students to local and wide area networks, home networking, networking standards using the IEEE/OSI Model, network protocols, transmission media and network architecture/ topologies. Security and data integrity are introduced and emphasized throughout this course, which offers students the critical information needed to successfully move into a role as an IT professional supporting networked computers. Concepts covered will include TCP/IP client administration, planning a network topology, configuring the TCP/IP protocol, managing network clients, configuring routers and hubs, as well as creating a wireless LAN.

- Recommended Grade Level: 11, 12
- Recommended Prerequisites: Information Technology Support I
- Credits: 2 semester course, 2 semesters required, 1-3 credits per semester, 6 credits maximum
- Counts as a Directed Elective or Elective for all diplomas

5914 PRINCIPLES OF MARKETING

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

Grade Level: 11-12 Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits max

4562 PRINCIPLES OF BUSINESS MANAGEMENT

Principles of Business Management focuses on the roles and responsibilities of managers as well as opportunities and challenges of ethically managing a business in the free-enterprise system. Students will attain an understanding of management, team building, leadership, problem-solving steps and processes that contribute to the achievement of organizational goals. The management of human and financial resources is emphasized. • Recommended Grade: 11,12 • Required Prerequisites: none • Recommended Prerequisites: Introduction to Business • Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum • Counts as a Directed Elective or Elective for all diplomas

5974 WORK BASED LEARNING, MULTIPLE PATHWAYS

Work Based Learning is an instructional strategy that prepares students for college and career; builds students' skills and knowledge in their chosen career path or furthers their study within the area of interest. A standards based training plan is developed by the student, teacher, and workplace mentor to guide the student's work based

learning experiences and assist in evaluating achievement and performance, whether WBL is a stand-alone course or a component of a discipline-specific CTE course. In the stand-alone WBL courses, students have the opportunity to apply the concepts, skills, and dispositions learned in previous coursework in their pathways in real world business and industry settings. Therefore, at least two courses in a student's pathway would be prerequisite to the student enrolling in the stand-alone WBL courses.

Students are monitored in their experiences by the teacher and employer.

Required Prerequisites: Preparing for College and Careers; 4 credits of introductory and advanced courses related to a student's pathway

Credits: 2-3 credits per semester, maximum of 6 credits

Grade: 12 or administration approval

Additional application required.

Engineering and Trade Technology

4784 INTRODUCTION TO MANUFACTURING

Introduction to Manufacturing is a course that specializes in how people use modern manufacturing systems with an introduction to manufacturing technology and its relationship to society, individuals, and the environment. An understanding of manufacturing provides a background toward developing engineering and technological literacy. This understanding is developed through the study of the two major technologies, material processing and management technology, used by all manufacturing enterprises. Students will apply the skills and knowledge of using modern manufacturing processes to obtain resources and change them into industrial materials, industrial products and consumer products. Students will investigate the properties of engineered materials, such as: Metallics; polymers; ceramics; and composites. After gaining a working knowledge of these materials, students will study six major types of material processes: Casting and molding; forming; separating; conditioning; finishing; and assembling.

Grade Level: 9-12 First semester/1 semester only

4790 INTRODUCTION TO COMMUNICATIONS

Introduction to Communications is a course that specializes in 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 through the use of 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. Using the base knowledge student will use the design process to solve design projects in each communication area.

Grade Level: 9-12 First semester/1 semester only

4792 INTRODUCTION TO CONSTRUCTION

Introduction to Construction is a course that will offer hands-on activities and real world experiences related to the skills essential in residential, commercial and civil building construction. During the course students will be introduced to the history and traditions of construction trades. The student will also learn and apply knowledge of the care and safe use of hand and power tools as related to each trade. In addition, students are introduced to blueprint reading, applied math, basic tools and equipment, and safety. Students will demonstrate building construction techniques, including concrete and masonry, framing, electrical, plumbing, dry walling, HVAC, and painting as developed locally in accordance with available space and technologies. Students learn how architectural ideas are converted into projects and how projects are managed during a construction project in this course. Students study construction technology topics such as preparing a site, doing earthwork, setting footings and foundations, building the superstructure, enclosing the structure, installing systems, finishing the structure, and completing the site. Students also investigate topics related to the purchasing and maintenance of structures, special purpose facilities, green construction and construction careers.

Grade Level: 9-12 Second semester/1 semester only

4812 INTRODUCTION TO ENGINEERING DESIGN

Introduction to Engineering Design is a fundamental pre-engineering course where students become familiar with the engineering design process. Students work both individually and in teams to design solutions to a variety of problems using industry standard sketches and current 3D design and modeling software to represent and communicate solutions. Students apply their knowledge through hands-on projects and document their work with the use of an engineering notebook. Students advance from completing structured activities to solving open-ended projects and problems that

require them to develop planning, documentation, communication, and other professional skills. Ethical issues related to professional practice and product development are also presented.

- Recommended Grade Level: 9
- Recommended Prerequisites: none
- Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum
- Counts as a Directed Elective or Elective for all diplomas

4814 PLTW 5644 non-PLTW PRINCIPLES OF ENGINEERING

Principles of Engineering is a course that focuses on the process of applying engineering, technological, scientific and mathematical principles in the design, production, and operation of products, structures, and systems. This is a hands-on course designed to provide students interested in engineering careers to explore experiences related to specialized fields such as civil, mechanical, and materials engineering. Students will engage in research, development, planning, design, production, and project management to simulate a career in engineering. The topics of ethics and the impacts of engineering decisions are also addressed. Classroom activities are organized to allow students to work in teams and use modern technological processes, computers, CAD software, and production systems in developing and presenting solutions to engineering problems

Grade Level: 10, 11 Pre-Req: Intro to Engineering Design

Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits max

4836 MECHANICAL DRAFTING AND DESIGN I

Mechanical Drafting and Design I provides students with a basic understanding of the detailing skills commonly used by drafting technicians. Areas of study include: lettering, sketching, proper use of equipment, geometric constructions with emphasis on orthographic (multi-view) drawings that are dimensioned and noted to ANSI standards. Another purpose of this course is to provide students with a basic understanding of the features and considerations associated with the operation of a computer-aided design (CAD) system. Students will gain valuable hands-on experience with Auto CAD. They will be expected to complete several projects (increasing in difficulty) relating to command topics. Topics include: 2D drawing commands, coordinate systems, editing commands, paper and model space, inquiry commands, layers, plotting, text, and basic dimensioning.

Grade Level: 10-12

4838 MECHANICAL DRAFTING AND DESIGN II

Mechanical Drafting and Design II covers working drawings both in detailing and assembly. Topics include: Fastening devices, thread symbols and nomenclature, surface texture symbols, classes of fits, and the use of parts lists, title blocks and revision blocks. This course will also focus on advanced CAD features, including fundamentals of three-dimensional modeling for design. An overview of modeling, graphical manipulation, part structuring, coordinate system, and developing strategies of modeling will also be included. Advanced CAD will enable the student to make the transition from 2D drafting to 3D modeling. Students will draw and calculate three-dimensional problems. Theory and methods include graphic developments and the relationships between points, lines and planes, curved lines and surfaces, intersections, and development. Computer software and hardware experiences, as they relate to drafting and design, will be covered.

Grade Level: 10-12

5608 ADVANCED MANUFACTURING I

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

Grade Level: 10-12

5606 ADVANCED MANUFACTURING II

Advanced Manufacturing II, Introduces basic blueprint reading, Computer Numerical Control (CNC) operation and the skills commonly used in the manufacturing industry. Areas of study will include: interpretation of drawing dimensions and notes to ANSI standards for machining including; Geometric Dimensioning and Tolerancing (GDT), welding, fabrication applications and inspection techniques. Students will be able to use Computer Aided Design software (CAD) to create 3D models and working drawings. Skills in the setup and operation of a CNC mill and lathe will also be acquired using multiple machine tool controllers. Other more general topics will include coordinate systems, dimensioning, line precedence, multi-view drawings, safe dress, tool paths, speed and feed calculations, and tool selection. The course also introduces robotics, automation, and Computer Integrated Manufacturing Technology (CIMT). Common types of factory automation will be identified. The course will focus on three main types of manufacturing automation including: Programmable Logic Controllers (PLC), Computer Numerically Controlled Machines (CNC), and Robotics. Topics cover robotic principles including basic theory, robot safety, robotic classifications, applications, socioeconomic impact, work cell design, robot programming (Pendant and Software Language), and sensor and actuator interfacing. Students will be required to design, program and troubleshoot computer controlled machine logic and production processes in a project oriented learning environment.

Grade Level: 10-12

5686 INDUSTRIAL TECHNICAL MAINTENANCE I

Industrial Technical Maintenance I includes classroom and practical experiences that prepare students to apply technical knowledge and skills to repair and maintain industrial machinery and equipment. Instructional activities develop diagnostic and problem-solving skills related to electric circuits, wiring, motors, robotics, hydraulics, and pneumatics. Additional areas of instruction should include plumbing, rigging, basic machining, welding, and cutting.

● Recommended Grade Levels: 11, 12 ● Recommended Prerequisites: Introduction to Manufacturing ● 2 semester course, 2 semesters required, 1-3 credits per semester, 6 credits maximum ● Counts as a Directed Elective or Elective for all diplomas

5688 INDUSTRIAL TECHNICAL MAINTENANCE II

Industrial Technical Maintenance II builds on the practical experiences learned in Industrial Maintenance I and prepares students to apply technical knowledge and skills to repair and maintain more advanced industrial equipment, systems, and processes. Instructional activities develop diagnostic and problem-solving skills related to electric circuits, wiring, motors, robotics, hydraulics, and pneumatics. Additional areas of instruction should include plumbing, rigging, basic machining, welding and cutting.

● Recommended Grade Levels: 12 ● Required Prerequisites: Industrial Technical Maintenance I 141 Indiana Department of Education High School Course Titles and Descriptions ● 2 semester course, 2 semesters required, 1-3 credits per semester, 6 credits maximum ● Counts as a Directed Elective or Elective for all diplomas ● Qualifies as a quantitative reasoning course

English/Language Arts

1002 ENGLISH 9

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. • Recommended Grade: 9 • Required Prerequisites: none • Recommended Prerequisites: none • Credits: 2 semester course, 1 credit per semester • Fulfills an English/Language Arts requirement for all diplomas

1002H ENGLISH 9 HONORS

Through the integrated study of literature, composition, and grammar, English 9 students further develop their use of language as a tool for learning and thinking. Students practice identifying, analyzing, and composing different genres of written language. The survey of literature includes short stories, poetry, nonfiction, novels, technical documents, and independent reading. Using technology and process writing, students focus on multi-paragraph writings, culminating in a MLA research paper. Oral communication emphasizes small group and large group presentations, and grammar is taught as needed to enhance writing. Independent and group projects give students further opportunities to demonstrate comprehension, creativity, and analytical thought. Depth and breadth of English 9 material is adjusted at the discretion of the teacher to meet the needs of advanced learners. For the above average eighth grade English student.

Grade Level: 9 (PCMS teacher recommendation) * This course is weighted/using 4.5 grading scale.

E1004 ENGLISH 10

This is an integrated literature, grammar, and composition course focusing on the theme of the human condition. The multiple genre approach encourages students to think critically and reflectively about the relationship between the individual and society. Students use technology to practice the writing process and to improve communication skills. Peer editing, cooperative learning, and individual and group projects will be utilized to enhance skill development.

Grade Level: 10

1004H ENGLISH 10 HONORS

This is an integrated literature, grammar, and composition course focusing on the theme of the human condition. The multiple genre approach encourages students to think critically and reflectively about the relationship between the individual and society. Students use technology to practice the writing process and to improve communication skills. Peer editing, cooperative learning, and individual and group projects will be utilized to enhance skill development. Depth and breadth of English 10 material is adjusted at the discretion of the teacher to meet the needs of advanced learners. For the above average ninth grade English student.

Grade Level: 10 (Prerequisite: English 9 Honors or English teacher recommendation)

* This course is weighted/using 4.5 grading scale.

1006 ENGLISH 11

Language arts instruction involves an integrated approach to the study of American Literature and composition. Students will respond critically, reflectively, and imaginatively to American literature, including major authors from the Puritan Era, Age of Reason, Romantic Period, Civil War Era, the Twenties and Thirties, and the Modern period. These works will also be placed in historical context and linked to modern novels or films. Students will also employ the basic modes of oral and written expression through the development effective narrative and descriptive procedures, including focus and logical organization of ideas. Using technology, students learn the basics of research, prewriting, drafting, revising, and editing. Students are encouraged to use the MLA style manual. Students will study technical reading and writing in a life-skills format. The formal study of grammar, usage, spelling and language mechanics is integrated into the study of writing. SAT/ACT preparation will be introduced.

Grade Level: 11

1006H ENGLISH 11 HONORS

Language arts instruction involves an integrated approach to the study of American literature and composition. Students will respond critically, reflectively, and imaginatively to American literature, including major authors from the Puritan Era, Age of Reason, Romantic Period, Civil War Era, the Twenties and Thirties, and Modern Drama. These works will be placed in historical context and linked thematically to modern or classic novels and films. Oral communication and research skills will be developed through study of American civics. Students will employ the basic modes of oral and written expression through the development of effective narrative, descriptive, and analytic

procedures, including focus and logical organization of ideas. Students will be introduced to college level analytical writing, including in-depth literature analyses and research. Students will use one or more of the manuals of style, such as MLA, APA, or CMS. The formal study of grammar usage, spelling, and language mechanics is integrated into the study of writing. SAT/ACT preparation will be introduced. For the above average tenth grade English Honors student who has passed the ECA. Recommended for an Academic Honors Diploma.
Grade Level: 11

1008 ENGLISH 12

Applied English 12, an integrated English course based on the Indiana Content Connectors English/Language Arts in Grades 9-10 and applicable employability skills. This course is a study of language, literature, composition, and communication focusing on literature with an appropriate level of complexity for each individual student. Students analyze, compare, and evaluate a variety of classic and contemporary literature and nonfiction texts, including those of historical or cultural significance. Students write narratives, responses to literature, academic responses (e.g. analytical, persuasive, expository, summary), and research tasks when appropriate. Students analyze and create visual information in the form of pictures, graphs, charts, and tables. Students write and deliver gradeappropriate multimedia presentations and access online information. • Recommended Grade: 11, 12 • Required Prerequisites: none • Recommended Prerequisites: • Applied units: 4 units maximum • Counts as an English/Language Arts Requirement for the Certificate of Completion • Course may be used for students in 18-22 year-old programming.

1124 ADV. ENGLISH LANGUAGE ARTS/LIT SURVEY

English/Language Arts, College Credit, is an advanced course based on Indiana's Academic Standards for English/Language Arts and the Common Core State Standards for English/Language Arts in Grades 11 and 12. This course title covers any English language and composition advanced course offered for credit by an accredited postsecondary institution through an adjunct agreement with a secondary school. Recommended for an Academic Honors Diploma.

Dual Credit Option USI Eng 101 1st semester, Eng 105 2nd semester

Grade Level: 12

1056/1058 AP LITERATURE AND COMPOSITION

English Literature and Composition, Advanced Placement, is an advanced placement course based on content established by the College Board. An AP English course in Literature and Composition engages students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students consider a work's structure, style, and themes as well as such smaller scale elements as the use of figurative language, imagery, symbolism, and tone. The course includes intensive study of representative works from various genres and periods, concentrating on works of recognized literary merit. Students will take the AP Literature and Composition exam in May. Recommended for an Academic Honors Diploma. **1058 Semester 1 ENG 105, 1056 ENG 101 (score 3 or above on AP exam)**

Grade Level: 12

1076 SPEECH

Speech is a one-semester class intended to provide the student with the skills necessary for and practice in the basic principles of effective oral communication. Through the study of verbal and nonverbal communication students will gain insight into the communication process and themselves. Students will participate in a variety of group activities designed to promote teamwork and group communication skills. In addition, students will plan and deliver a range of solo and group presentations designed to mimic situations students may encounter outside of the school setting. This course includes some research and uses of technology. PCHS requirement for graduation *beginning with Class of 2008.*

Grade Level: 10-12

English/Language Arts Electives

0532 COLLEGE ENTRANCE EXAM PREP (SAT/ACT PREP) (Semester 1)

College-Entrance Preparation utilizes individual student score reports from the PSAT, PLAN, and/or ACCUPLACER to prepare students for the SAT, ACT, ACCUPLACER and/or Compass college readiness assessments. Based on student score reports, students will receive targeted instruction to strengthen their foundations in critical reading, writing, mathematics, and science sections of college admission and placement exams. As appropriate, the course will also encompass test taking strategies to prepare students for success on a high-stakes assessment. Teachers are encouraged to use a curriculum with longitudinal, successful results. Course may also include college selection and application units, to better prepare students for overall college-readiness. Being "college ready" means being prepared for any postsecondary education or training experience, including readiness for study at two-year and four-year institutions leading to a post-secondary credential (i.e., a certificate, license, Associate's or Bachelor's degree). Being ready for college means that a high school graduate has the English and mathematics knowledge and skills necessary to qualify for and succeed in entry-level, credit-bearing college courses without the need for remedial coursework. • Recommended Grade: Recommended Grade Level: semester 1 – grade 11; semester 2 – grade 10 • Required Prerequisites: none • Recommended Prerequisites: Algebra II (or concurrent enrollment in Algebra II) • Credits: 1 semester course, 1 credit per semester, 4 credits maximum • Counts as an Elective credit for all diplomas. • The nature of this course allows for successive semesters of instruction provided progressively advanced proficiencies and content standards are utilized.

1060 ETYMOLOGY (Semester 2)

Etymology, a language studies course based on the Indiana Academic Standards for English/Language Arts, is the study and application of the derivation of English words and word families from their roots in ancient and modern languages (Latin, Greek, Germanic, and Romance Languages). Students analyze meanings of English words by examining roots, prefixes, and suffixes. Students analyze the connotative and denotative meaning of words in a variety of contexts and the reasons for language change. Students write about word history and semantics in texts that require etymological sensitivity, such as Renaissance poetry or works in translation.

Grade Level: 11-12

Credits: 1 semester course, 1 credit per semester

1078 ADVANCED SPEECH AND COMMUNICATION (offered opposite of Novels)

The study and application of skills in learning, oral interpretation, media communications, research methods, and oral debate. Students deliver different types of oral debate. Students deliver different types of oral and multi-media presentations, including but not limited to, speeches to inform, to motivate, to entertain, to persuade, through the use of impromptu, extemporaneous, memorize or manuscript delivery. Advanced Speech and Communication project: Students will complete a multi-media project that advances either our school or our community.

Dual Credit option OCU COMM 202

1042 NOVELS (offered opposite of Adv. Speech and Comm.)

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. • Recommended Grade: 11, 12 • Required Prerequisites: none • Recommended Prerequisites: English 9, English 10, or teacher recommendation • Credits: 1 semester course, 1 credit per semester

1034 FILM LITERATURE/STUDIES IN FILM

Film Literature, a course based on the Indiana Academic Standards for English/Language Arts, is a study of how literature is adapted for film or media and includes role playing as film directors for selected screen scenes. Students read about the history of film, the reflection or influence of film on the culture, and issues of interpretation, production and adaptation. Students examine the visual interpretation of literary techniques and auditory language in film and the limitations or special capacities of film versus 176 Indiana Department of Education High School Course Titles and Descriptions text to present a literary work. Students analyze how films portray the human condition and the roles of men and women and the various ethnic or cultural minorities in the past and present. 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. • Recommended Grade: 11, 12 • Required Prerequisites: none • Recommended Prerequisites: English 9, English 10, or teacher recommendation • Credits: 1 semester course, 1 credit per semester

1036 FILM GENRES

Genres of Literature, a course based on the Indiana Academic Standards for English/Language Arts, is a study of various literary genres, such as poetry, dramas, novels, short stories, biographies, journals, diaries, essays, and others. Students examine a set or sets of literary works written in different genres that address similar topics or themes. Students analyze how each genre shapes literary understanding or experiences differently, how different genres enable or constrain the expression of ideas, how certain genres have had a stronger impact on the culture than others in different historical time periods, and what the most influential genres are in contemporary times. 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. • Recommended Grade: 11, 12 • Required Prerequisites: none • Recommended Prerequisites: English 9, English 10, or teacher recommendation • Credits: 1 semester course, 1 credit per semester

1086N STUDENT PUBLICATION – NEWSPAPER

Students plan, write, take pictures for, design, publish, market and distribute the school newspaper. Word processing and desktop publishing and 35 mm digital cameras will be used. Students must have an English grade of a C or better. Instructor approval is required. *Publication should also be taken with this course.

Grade Level: 9-12

**Counts as a Fine Arts Elective

1086N2 STUDENT PUBLICATION – NEWSPAPER II

Grade Level: 10-12 *Publication should also be taken with this course.

Dual Credit option USI JRN 180

1086YB STUDENT PUBLICATION – YEARBOOK

This course provides the study of and practice in photography and gathering information and writing in order to produce the school's yearbook. This course provides further study in using the 35 mm and digital cameras. Students will also continue instruction in journalistic writing, layout and design, including typography, as well as advertising. Instructor approval is required. *Publication should also be taken with this course.

Grade Level: 9-12

**Counts as a Fine Arts Elective

1086YB2 STUDENT PUBLICATION – YEARBOOK II

Grade Level: 10-12 *Publication should also be taken with this course.

Dual Credit option USI JRN 180

1080 JOURNALISM

Journalism is a course dedicated to preparing students to be conscious media consumers. Students will learn the basics of news and features reporting in addition to learning how to design newspaper pages and take photos. Students will study the history of news delivery system and also examine how social media and the 24/7 news cycle has forever changed news organizations.

Grade Level: 9-12 This is a one-semester class

1084 MASS MEDIA

Mass Media, a course based on the High School Journalism Standards and the Mass Media and Media Literacy Standards, is the study of the importance of mass media as pervasive in modern life at the local, national, and global levels. It includes a study of the impact of constant and immediate news, entertainment, and persuasive messages on everyday life. Students use course content to become knowledgeable consumers of mass media in preparation for their roles as informed citizens in a democratic society. For the second credit: Students continue to critically analyze mass media products and messages as they influence societal rules. By the end of the semester, students complete a multimedia project comparing different aspects of a topic of interest or concern. The project demonstrates knowledge, application, and progress in Mass Media course content.

Grade Level: 9-12

Credits: 1 semester course, 1 credit per semester

1084MM2 ADVANCED MASS MEDIA

This course is designed as a successive semester of instruction at the advanced level of mass media.

Grade Level: 9-12

Pre-requisite: MASS MEDIA

Credits: 1 semester course, 1 credit per semester

Family and Consumer Sciences

5412 EDUCATION & EARLY CHILDHOOD CAREERS I

(Child Care) This is a one-year, two-semester course. This course requires two class periods per day, one for lecture and one for lab. It will earn a total of four credits for the year. This course allows the students to help manage and facilitate the Child Care Lab. Must have instructor approval.

Grade Level: 11-12

2 credits per semester

5406 EDUCATION & EARLY CHILDHOOD CAREERS II

This is a one-year, two-semester course. This course requires two class periods per day, one for lecture and one for lab. It will earn a total of four credits for the year. This course goes a step beyond the first year, it allows the students to help manage and facilitate the Child Care Lab. Must have instructor approval.

Grade Level: 12

Prerequisite: Education & Early Childhood Careers I

2 credits per semester

5340 ADVANCED NUTRITION AND WELLNESS

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 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.

Grade Level: 9-12

5440 CULINARY ARTS AND HOSPITALITY I

Culinary Arts and Hospitality I prepares students for occupations and higher education programs of study related to the entire spectrum of careers in the hospitality industry. This course builds a foundation that prepares students to enter the Advanced Culinary Arts or Advanced Hospitality courses. Major topics include: introduction to the hospitality industry; food safety and personal hygiene; sanitation and safety; regulations, procedures, and emergencies; basic culinary skills; culinary math; and food preparation techniques and applications; principles of purchasing, storage, preparation, and service of food and food products; ; apply basic principles of sanitation and safety in order to maintain safe and healthy food service and hospitality environments; use and maintain related tools and equipment; and apply management principles in food service or hospitality operations. Intensive laboratory experiences with commercial applications are a required component of this course of study. Student laboratory experiences may be either school-based or "on-the-job" or a combination of the two. Work based experiences in the food industry are strongly encouraged. A standards-based plan guides the students' laboratory experiences. Students are monitored in their laboratory experiences by the Culinary Arts and Hospitality teacher. Articulation with post-secondary programs is encouraged.

Grade Level: 11, 12 Pre-Req: Nutrition and Wellness

Credits: 2 semester course, 2 semesters required, 1-3 credits per semester, 6 credits maximum

5346 Culinary Arts and Hospitality II

Culinary Arts and Hospitality II: Culinary Arts prepares students for occupations and higher education programs of study related to the entire spectrum of careers in the food industry, including (but not limited to) food production and services; food science, dietetics, and nutrition; and baking and pastry arts. Major topics for this advanced course include: basic baking theory and skills, introduction to breads, introduction to pastry arts, nutrition, nutrition accommodations and adaptations, cost control and purchasing, and current marketing and trends. Instruction and intensive laboratory experiences include commercial applications of principles of nutrition, aesthetic, and sanitary selection; purchasing, storage, preparation, and service of food and food products; using and maintaining related tools and equipment; baking and pastry arts skills; managing operations in food service, food science, or hospitality establishments; providing for the dietary needs of persons with special requirements; and related research, development, and testing. Intensive laboratory experiences with commercial applications are a required component of this course of study. Student laboratory experiences may be either school-based or "on-the-job" or a combination of the two. Advanced Culinary Arts builds upon skills and techniques learned in Culinary Arts and Hospitality Management, which must be successfully completed before enrolling in this advanced course. Work-based experiences in the food industry are strongly encouraged. A standards-based plan guides the students' laboratory

and Work-based experiences. Students are 131 Indiana Department of Education High School Course Titles and Descriptions monitored in these experiences by the Advanced Culinary Arts teacher. Articulation with post-secondary programs is encouraged. • Recommended Grade: 12 • Required Prerequisites: Culinary Arts and Hospitality I • Recommended Prerequisites: none • Credits: 2 semester course, 2 semesters required, 1-3 credits per semester, 6 credits maximum • Counts as a Directed Elective or Elective for all diplomas

Machine Trade Technology

4796 INTRODUCTION TO MACHINE TOOLS 1-2

This class is designed to teach the student all parts and functions of a Lathe, Mill and Drill Press. The student will learn to use Precision Measurement Tools and techniques. The student will learn shop and machine safety rules and regulations. After a student is successful learning the above skills he or she will start using machines to make projects. This class will be completed in one semester.

Dual Credit option VU PMTD 108

Grade Level: 9-12 Grade 9 with Instructor Approval 2 periods, 2 credits (take only one semester)

5782T1/2 PRECISION MACHINE TECHNOLOGY I

This course is designed to provide the student with a basic understanding of the processes used to produce industrial goods. Topics to be discussed include measurement, welding, shop math and blueprint reading. Students will experience hands-on training with measurement and layout, and machine tool operation. National Tooling and Machine Association (NTMA). Machine Level I Skill Standards will be incorporated into this course. This course is a two-period, two-credit class per semester with a total of 4 credits for the year.

Dual Credit option VU PMTD 110 1st semester, PMTD 117 2nd semester

Grade Level: 10-12 No prerequisite 2 credits per semester

5782/5784T2 PRECISION MACHINE TECHNOLOGY II

This course is designed to provide the student with a basic understanding of the processes used to produce industrial goods. Topics to be discussed include advanced measurement, layout and inspection, machine tool processes and operations, metallurgy, welding, shop math, and blueprint reading. Students will experience hands-on training with measurement layout, and machine tool operation. National Tooling and Machining Association (NTMA). Machining Level I Skill Standards will be incorporated into this course.

Dual Credit option VU PMTD 118 1st semester, PMTD 119 2nd semester

Grade Level: 11-12 2 credits (2 periods) per semester Prerequisite: Precision Machine I

5784 PRECISION MACHINE TECHNOLOGY III

Precision Machines III: Semester 1. Prerequisite: a grade of C or better in Precision Machining II. This course will provide the student with extensive programming knowledge of CNC mills and lathe. Students will use Hurco Win-max software to input information, edit, set-up tooling, and graphically verify the appropriate code for HURCO VMC 30 CNC Mill. Student will then set-up and run program on HURCO VMC-30 Mill.

Precision Machining III: Semester 2. Prerequisite: a grade of C or better in Precision Machining II. This course will provide the student with extensive programming knowledge of CNC mills and lathe using G & M codes. Students will use Haas SL Series CNC Workbook for the Lathe and VF/HS Series CNC Machine workbook for the Mill, edit, set-up tooling, and graphically verify the program on A HAAS Simulator or TL1 CNC Lathe.

Dual Credit option VU PMTD 111 1st semester, PMTD 112 2nd semester

Grade Level: 12 2 credits (2 periods) per semester Prerequisite: Precision Machine 2

Mathematics

Math Policies:

******Algebra and Geometry grades from middle school ARE applied to the student's high school transcript.**

******Please also be aware, that despite the level of math attained before high school, students must earn 6-8 additional math credits during grades 9-12.**

1) Students who fail the second semester of a math class are required to audit the first semester of that class before retaking the second semester. The audit must take place during the first semester of the school year in which the retake occurs.

2) Successful completion of semester 1 is necessary to continue with semester 2. Exceptions may be made with teacher approval.

3) Ninth grade students who wish to take Geometry must have an “A” or “B” in eighth grade Algebra and either have passed the Algebra ECA or have the teacher recommendation. Students who earned a “C” or “D” must retake Algebra in the ninth grade unless they pass the Algebra ECA.

2516 ALGEBRA 1 LAB (Formerly Algebra Enrichment)

The 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 Enrichment 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 (Description from I-DOE).

Students gain support for the Algebra I course. When enrolled in Algebra Enrichment, the student must also be taking Algebra I, or at least during the same academic year.

Grade Level: 9

2520 ALGEBRA I

This two-term course covers basic Algebraic concepts as directed by state standards. It is recommended for the student with a previous math grade range of A to C. May be taken in conjunction with Algebra 1 Lab with instructor approval.

Grade Level: 9 Required For Graduation

2532 GEOMETRY

This two-term course covers basic Geometric concepts as directed by state standards. It is recommended for the student with average or above math achievement (A to C grade range for Algebra 1.)

Grade Level: 9-12 Prerequisite: Algebra I

2532 GEOMETRY HONORS

Algebra teacher recommendation. Prerequisite: Algebra 1 in middle school or teacher approval.

2522 ALGEBRA II

This two-term course covers advanced Algebraic concepts as directed by state standards. It is recommended for the student with a grade range of A to C+ in Geometry. With department approval this course can be taken simultaneously with Geometry.

Grade Level: 10-12 Prerequisite: Algebra I

2522H ALGEBRA II HONORS

This course is for recommended students only. Students who complete Geometry in middle school with a letter grade of an “A,” are recommended in addition to students referred by PCHS Geometry teachers. This course is faster paced than Algebra II.

Grade Level: 9-10 * This course is weighted/using 4.5 grading scale.

2524 ANALYTICAL ALGEBRA II

Analytical Algebra II builds on previous work with linear, quadratic and exponential functions and extends to include polynomial, rational, radical, logarithmic, and other functions. Data analysis, statistics, and probability content should be included throughout the course, as students collect and use univariate and bivariate data to create and interpret mathematical models. Additionally, Analytical Algebra II should focus on the application of mathematics in various disciplines including business, finance, science, career and technical education, and social sciences, using technology to model real-world problems with various functions, using and translating between multiple representations. 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. This course is not recommended for students interested in pursuing a STEM degree at a four year institution; this course does not prepare students for PreCalculus/Trigonometry.

****Fulfills the Algebra II/Integrated Mathematics III requirement for all diplomas; if students use this course to fulfill this credit, the parent and student must sign a consent form notifying the parent and the student that enrollment in Analytical Algebra II may affect the student's ability to attend a particular post-secondary educational institution or enroll in a particular course at a particular post-secondary educational institution because Analytical Algebra II may not align with academic requirements established by the postsecondary educational institution. Teacher recommended.*

Grade Level: 10-12 Pre-req: Algebra 1 Credits: 2 semester course, 1 credit per semester

2543 ADVANCED MATHEMATICS, SPECIAL TOPICS: SAT/ACT PREP

Advanced Mathematics, Special Topics is the course title that is to be used for reporting by schools that offer mathematics course beyond the scope of approved courses. Schools must apply to the Indiana Department of

Education for a non-standards course waiver. The nonstandards course waiver will provide a proposed course description, standards students will meet for the course, how the special topics course relates to students' needs, and rationale describing post-secondary/higher education and business/industry need and support for the course. Schools will follow the special topics non-standards course waiver framework and provide feedback to the Indiana Department of Education at the end of the course.

Grade Level: 11-12 Pre-Req: Algebra II Credits: 1 semester course, 1 credit per semester

2566/2546 TRIGONOMETRY/PROBABILITY AND STATISTICS

Trigonometry is the Semester One Course. This first semester course covers basic Trig concepts as directed by state standards.

Probability is the Semester Two Course. This second semester course covers basic Probability/Statistics concepts as directed by the state standards.

Grade Level: 11-12 Prerequisite: Algebra II

2564 TRIGONOMETRY/PRE-CALCULUS

This two-term course covers material which includes functions common in calculus including algebraic, logarithmic, and trigonometric functions. Many algebraic/geometric connections are made in this course. It is recommended for students entering a science, engineering or math career.

Dual Credit option OCU 1st semester MATH 120, 2nd semester MA 115

Grade Level: 11-12 Prerequisite: Algebra II

2564H TRIGONOMETRY HONORS/PRE-CALCULUS HONORS

This course is for recommended students only. Students who complete Algebra II or Algebra II Honors with a letter grade of "A" are eligible for this course. This is a faster paced course.

Grade level: 10-11

Dual Credit option OCU 1st semester MATH 120, 2nd semester MA 115

* This course is weighted/using 4.5 grading scale.

2562 AP CALCULUS AB, ADVANCED PLACEMENT

This two-term course is rigorous and requires a devoted, interested math student to be successful. It is recommended for the student who excelled (Grade A to B) in Pre-Calculus or Honors Algebra II. The course will follow the College Board AP Calculus AB description.

Dual Credit option OCU MATH 216

Grade Level: 12 Prerequisite: Pre-Calculus

2572 AP CALCULUS BC, ADVANCED PLACEMENT

AP Calculus BC is a course based on content established by the College Board. AP Calculus BC is primarily concerned with developing the students' understanding of the concepts of calculus and providing experience with its methods and applications. The course emphasizes a multi-representational approach to calculus, with concepts, results, and problems being expressed graphically, numerically, analytically, and verbally. The connections among these representations also are important. Topics include: (1) functions, graphs, and limits; (2) derivatives; (3) integrals; and (4) polynomial approximations and series. Technology should be used regularly by students and teachers to reinforce the relationships among the multiple representations of functions, to confirm written work, to implement experimentation, and to assist in interpreting results.

All students will take the AP Calculus AB Test in May for potential college credit.

Grade Level: 12 Prerequisite: AP Calculus AB

Multidisciplinary

0500 BASIC SKILL DEVELOPMENT

Basic Skills Development is a multidisciplinary course that provides students continuing opportunities to develop basic skills including: (1) reading, (2) writing, (3) listening, (4) speaking, (5) mathematical computation, (6) note taking, (7) study and organizational skills, and (8) problem-solving skills, which are essential for high school course work achievement. Determination of the skills to be emphasized in this course is based on Indiana's standards, individual school corporation general curriculum plans, and the student's Individualized Education Programs (IEP) or other individualized plans. Skills selected for developmental work provide students with the ability to continue to learn in a range of different life situations.

Grade Level: 9-12 Credits: 1 credit per semester up to 8 semesters, 8 credit max

0522 JOBS FOR AMERICA'S GRADUATES (JAG)

Jobs for America's Graduates (JAG) is a state-based, national non-profit organization dedicated to preventing dropouts among young people who are most at-risk. JAG's mission is to keep young people in school through graduation and provide work-based learning experiences that will lead to career advancement opportunities or to enroll in a postsecondary institution that leads to a rewarding career. JAG students receive adult mentoring while in school and one year of follow-up counseling after graduation. The JAG program is funded through grants provided by the Indiana Department of Workforce Development. • Recommended Grade: 11, 12 • Required Prerequisites: none • Recommended Prerequisites: none • Credits: 2 semester course, 1 credits per semester, 4 credits maximum • Counts as an elective for all diplomas

NC100 STUDY HALL

This is a non-credit class. Juniors and seniors may take the class if credit count allows. May be replaced by a required course at guidance counselor discretion. Sophomores and freshmen must have parent and administrative approval.

Music

4160 CONCERT BAND

This class will focus on the fundamental techniques of wind player development. Wind literature of all facets will be absorbed and studied throughout the course. Students will perform in multiple facets of the music department including marching band, pep band, winter/spring concerts, organizational contest, etc.

Grade Level: 9-12

4200 APPLIED MUSIC/ PERCUSSION TECHNIQUES (Formerly Jazz Band)

Percussion students of PCHS only may enroll in this class with consent of Band Director. Students must have a prerequisite of a previous experience in a band class/ensemble (i.e. 8th grade band, concert band, jazz band, marching band, pep band, or by specific invitation from the director).

Grade Level: 9-12

4186 CONCERT CHOIR (Intermediate Chorus)

The scope of this class will be to rehearse and perform varying types of literature suitable for intermediate level choir and different aspects of singing and reading music, along with other music related topics. This class is open to any student wishing to sing in a choir. Additional music fee required. No audition.

Grade Level: 10-12

4188 Mixed Choir (Advanced Chorus)

Placement audition and instructor approval necessary. This class requires evening rehearsals and performances and a few weekend performances. This will constitute part of the earned grade. This class will encompass varying types of literature suitable for concert choirs and show choirs, different aspects of singing and reading music, and dance and choreography. Open to any student (9-12) who successfully passes the audition. Participation in ISSMA solo and ensemble required.

Grade Level: 10-12

Required: Audition and additional music fee

4146 DANCE PERFORMANCE

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 176 Indiana Department of Education High School Course Titles and Descriptions 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. • Recommended Grade Level: 9, 10, 11, 12 • Recommended Prerequisites: none • Credits: 1 semester course, 1 credit per semester. The nature of this course allows for successive semesters of instruction at an advanced level provided defined proficiencies and content standards are utilized. • Counts as a Directed Elective or Elective for all diplomas • Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma • A non-licensed dance instructor may be contracted to provide instruction with a licensed Fine Arts teacher serving as the teacher of record • Laboratory course

Physical Education

3542 PHYSICAL EDUCATION

This full-year course satisfies the graduation requirement of 2 credits in PE. Will include, but is not limited to, an introduction to Team Sports, Lifetime Sports, Strength and Conditioning, and Personal Fitness. Credit: 1 each semester.

Grade Level: 9 THIS COURSE IS A CO-ED COURSE

3660 PHYSICAL EDUCATION CREDIT FOR ATHLETIC PARTICIPATION

Credit may be awarded upon head coach, athletic department, and building principal approval after fulfilling all requirements for a fall, winter, or spring PCHS sport. The credit is allowed to count as one physical education, graduation requirement credit. Athletics recognized: Football, Volleyball, Cross Country, Soccer, Tennis, Golf, Marching Band, Guard or Flag Corps, Basketball, Wrestling, Track and Field, Baseball, Softball, Cheerleading

Application for credit must be made before or during the season by completing the written request in the Guidance Office. The form must be signed by the parent/guardian and by the school administration. The head coach of the sport, or sponsor of the activity must certify that the activity meets the guidelines provided by the State of Indiana and PCHS including, but not limited to satisfactory completion of the sport or activity and full participation in the practices and contests prescribed by the school and its Athletic Office or Music Sponsor.

PCHS and the NGSC reserve the right to grant or refuse credit for the outside activities to reflect updates in the curriculum requirement by the Department of Education or the school. Activities that qualify may be added or deleted without notice.

Grade Level: 9-12

3560 STRENGTH AND CONDITIONING - ELECTIVE PHYSICAL EDUCATION

The goal of this semester course is to develop a physically educated student who can maintain appropriate levels of cardio-respiratory endurance, muscular strength and endurance, flexibility, and body composition necessary for a healthy and productive life. Students have an opportunity to develop an appropriate fitness program that enables them to achieve a desired level of fitness. Leadership skills will be developed through team-building exercises and helping others on a daily basis. Ongoing assessments will include written and skill based evaluations. Students wishing to enroll must complete an application. Co-ed. Can be taken more than once. Credit: 1 each semester

Grade Level: 10-12 This course does NOT fulfill a PE requirement.

**Freshmen athletes wishing to enroll in Strength and conditioning must complete a summer workout regimen and must have approval by supervising instructor.

Prerequisite: Intro to PE I and II and Instructor approval.

3544 ADVANCED PE - ELECTIVE PHYSICAL EDUCATION

Will include detailed units covering basketball, European handball, fitness testing, football, hockey, soccer, softball, and volleyball, archery, badminton, pickle ball, table tennis, tennis, and wiffle ball.

Can be taken more than once. Credit: 1 each semester CO-ED

Grade Level: 10-12 Prerequisite: Intro to PE I and II

3506 HEALTH AND WELLNESS EDUCATION

Health and Wellness is a study of nutrition, physical fitness, tobacco and alcohol prevention, and all major body systems. The Alive at 25 defensive driving program will also be implemented. Emphasis is on application of knowledge through the use of decision-making and behavior modification skills.

Grade Level: 9-12 One-semester required class.

Science

3020 AP BIOLOGY

AP Biology 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. The major themes of the course include: The process of evolution drives the diversity and unity of life, Biological systems utilize free energy and molecular building blocks to grow, to reproduce and to maintain dynamic homeostasis, Living systems store, retrieve, transmit and respond to information essential to life processes, Biological systems interact, and these systems and their interactions possess complex properties. **Students will take AP Bio exam in May with the potential to earn a college credit.**

Grade Level: 11, 12 Pre-Req: Biology I and Chem I with a "C" or higher
Credits: 2 semester course, 1 credit per semester

3024 BIOLOGY I

A study of: Life characteristics, cell structure and processes, genetics/evolution, plant structure and development, ecology and embryonic development. Two projects are required (Plant Development and Chick Embryo Study). Involves lab activities that relate to course work. Required for graduation.
Grade Level: 9-12

3044 EARTH AND SPACE SCIENCE

This course is about the physical process that shapes the Earth. Students study the four branches of Earth Science, namely Geology, Meteorology, Astronomy, and Oceanography. These areas of study will help the student begin to develop a greater appreciation and understanding of the Earth as a natural resource.
Grade Level: 10-12 Prerequisite: Biology I

3108 INTEGRATED CHEMISTRY/PHYSICS

Laboratory science that combines the basic concepts of chemistry and physics. Generally the physics portion is covered during the first semester and the chemistry portion during the second semester. There is a greater emphasis on the conceptual and "hands-on" aspects of chemistry and physics, while there is less emphasis on the upper level mathematics of the individual courses. Is intended for the student who does not plan to take regular Chemistry and/or Physics.
Grade Level: 10-12 Prerequisite: Biology I *Does Not Count for AHD*

3064 CHEMISTRY

Chemistry will introduce matter in all of its various combinations, such as elements, compounds, and mixtures, and how matter can be physically or chemically changed. Topics such as measurement, atomic theory, periodic trends, mathematics of chemistry, chemical bonding, inorganic and organic nomenclature, kinetic theory, acid-base theories and nuclear chemistry will be covered.
Grade Level: 10-12 Prerequisites: "B" grade in Algebra I required for enrollment in Grade 10, "C" grade in Algebra I required for enrollment in grades 11 and 12.

3066 CHEMISTRY II

Advanced Chemistry will provide an in-depth investigation of chemistry. Areas of study include a review of first year topics, thermo chemistry, thermo-dynamics, electrochemistry, organic, solid state chemistry, as well as quantitative and qualitative analysis. Laboratory activities and problem solving skills will be emphasized.

Dual Credit option USI CHEM 261

Prerequisite: "B" grade in Algebra I required for enrollment in Grade 10, "C" grade in Algebra I required for enrollment in grades 11 and 12.
Grade Level: 11-12 Prerequisite: "B" minimum in Chemistry I or teacher approval

3092 ADVANCED SCIENCE/ORGANIC AND BIOCHEMISTRY

This course is designed for allied health and nursing. It gives an introduction to many areas of chemistry that impact our society. The course will be broken into two parts: Organic Chemistry (Semester I) and Biological Chemistry (Semester II).

Dual Credit option USI CHEM 141

Requirement: Strongly recommended to take Chemistry II first.
Grade Level: 11-12 Prerequisite: "B" minimum in Chemistry I or teacher approval

3010 ENVIRONMENTAL SCIENCE

An interdisciplinary course that integrates biology, earth science, chemistry, and other disciplines. Students enrolled in this course conduct in-depth scientific studies of ecosystems, population dynamics, resource management, and environmental consequences of natural and anthropogenic processes. Students formulate, design, and carry out laboratory and field investigations as an essential course component. Students completing Environmental Science, Advanced acquire the essential tools for understanding the complexities of national and global environmental systems.
Grade Level: 10-12 Prerequisite: Biology I

4818 ENVIRONMENTAL SUSTAINABILITY

Environmental Sustainability is a specialization course that builds upon prior knowledge learned in previous engineering and science courses. Students investigate and design solutions in response to current challenges such as providing the world with clean and abundant drinking water, an adequate food supply, and renewable energy.

Students are introduced to environmental issues and use the engineering design process to design, build, and test potential solutions. This course engages critical thinking and problem-solving skills as students apply and extend their knowledge through designing experiments, managing projects, conducting research, and creating presentations to communicate solutions. • Recommended Grade Level: 11, 12 • Recommended Prerequisites: Introduction to Engineering Design, Principles of Engineering, and Biology • Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum • Counts as a Directed Elective or Elective for all diplomas • Fulfills a science course requirement for all diplomas • If PLTW curriculum is used, PLTW training is required of the teacher

3084 PHYSICS

Physics is the science that studies the nature of matter, energy and their relationships. This is an introductory physics course geared toward the college bound student. Hands on laboratory experiments and exercises are used to introduce and/or reinforce concepts. However, problem solving is the primary means of study. Students are led to understand the basis for each major physics concept.

Grade Level: 11-12 Prerequisite: Pre-Calculus or strong Algebra II students with teacher recommendation.

5274 MEDICAL TERMINOLOGY

Medical Terminology prepares students with language skills necessary for effective, independent use of health and medical reference materials. It includes the study of health and medical abbreviations, symbols, and Greek and Latin word part meanings, all taught within the context of body systems. This course builds skills in pronouncing, spelling, and defining new words encountered in verbal and written information in the healthcare industry. Students have the opportunity to acquire essential skills for accurate and logical communication, and interpretation of medical records. Emphasis is on forming a foundation of a medical vocabulary including; appropriate and accurate meaning, spelling, and pronunciation of medical terms, and abbreviations, signs, and symbols.

Grade Level: 11, 12 Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits max

5276 ANATOMY AND PHYSIOLOGY

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, integument, skeleton, 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.

Dual Credit option USI BIOL 105

Grade Level: 11, 12 Pre-Req: Chem 1 with a grade of "C" or better

Credits: 2 semester Course, 2 semesters required, 1 credit per semester, 2 credits max

5218 PLTW PRINCIPLES OF BIOMEDICAL SCIENCES

PLTW Principles of the Biomedical Sciences provides an introduction to this field through "hands-on" projects and problems. Student work involves the study of human medicine, research processes and an introduction to bioinformatics. Students investigate the human body systems and various health conditions including heart disease, diabetes, hypercholesterolemia, and infectious diseases. A theme through the course is to determine the factors that led to the death of a fictional person. After determining the factors responsible for the death, the students investigate lifestyle choices and medical treatments that might have prolonged the person's life. Key biological concepts included in the curriculum are: homeostasis, metabolism, inheritance of traits, feedback systems, and defense against disease. Engineering principles such as the design process, feedback loops, fluid dynamics, and the relationship of structure to function will be included where appropriate. The course is designed to provide an overview of all courses in the Biomedical Sciences program and to lay the scientific foundation necessary for student success in the subsequent courses. **In May students will take an exam; depending on their score they can apply for a dual credit option through IUPUI.**

Grade Level: 9-12 Pre-reqs: Biology I or concurrent enrollment in Biology I

Credits: 2 semester course, 2 semesters required 1 credit per semester, 2 credits maximum

5282 HEALTH SCIENCE EDUCATION I

Health Science Education I is a course designed to provide a foundation of skills development to specific health careers including; patient care, nursing care, dental care, animal care, medical laboratory, and public health. Students will also receive an introduction to healthcare systems, anatomy, physiology, and medical terminology. Laboratory experiences with industry applications are organized and planned around the activities associated with the student's career objectives. Job seeking and job maintenance skills, personal management skills, selfanalysis to aid in career selection and completion of the application process for admission into a post-secondary program of their choice are also included in this course. Participation in HOSA 116 Indiana Department of Education High

School Course Titles and Descriptions encourages the development of leadership, communication and career related skills, and opportunities for community service.

Grade Level: 11 Credits: 2 semester course, 2 semesters required, 1-3 credits per semester, 6 credit max

Social Studies

1508 CITIZENSHIP AND CIVICS

Citizenship and Civics is an overview of citizenship roles and responsibilities designed to help students become independent thinkers and conscientious citizens. This course deals with political trends and behavior which citizens consider to be relevant to the most pressing issues of the day. The course provides students experiences that will develop attitudes of citizenship within a democratic society. Topics include: (1) the policymaking process, (2) public participation in policymaking, (3) citizenship rights and responsibilities in a changing society, and (4) the relationship between modern society and government. Study of the local government should be a component of this course.

Grade Level: 9-12

1548 WORLD HISTORY

This full year course is a global look at the important people, events, and cultures that have shaped the world. Topics will range from Ancient Greece and Rome to the Cold War.

Grade Level: 10-12 PCHS Requirement

1542 US HISTORY

Two semesters required for graduation. The first semester provides a survey of the major events, peoples and trends of American history from the Civil War through the end of the 19th century. The second semester surveys America during the 20th century with a major emphasis on those events, people, and trends that are influencing our lives today.

Grade Level: 11 (Required)

1562 AP US History

AP United States History 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 United States History focuses on developing students' abilities to think conceptually about U.S. history from approximately 1491 to the present and apply historical thinking skills as they learn about the past. Seven themes of equal importance — identity; peopling; politics and power; work, exchange, and technology; America in the world; environment and geography; and ideas, beliefs, and culture — provide areas of historical inquiry for investigation throughout the course. These require students to reason historically about continuity and change over time and make comparisons among various historical developments in different times and places. **Students will take AP US History in May for potential college credit.**

• Recommended Grade Level: 11, 12 • Recommended Prerequisites: none. Students should be able to read a college level textbook and write grammatically correct, complete sentences. • Credits: 2 semester course, 1 credit per semester • Fulfills the US History requirement for all diplomas

1540 GOVERNMENT

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. How the United States interacts with other nations and the government's role in world affairs will be examined. A focus on American interactions with other nations, and the government's role in world affairs, will also be included. Using primary and secondary resources, students 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.

Grade Level: 12 (Required)

1514 ECONOMICS

Economics examines the allocation of resources and their uses for satisfying human needs and wants. The course analyzes the 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 study of scarcity and economic reasoning, supply and demand, market structures, the role of government, national economic performance, the roles of financial institutions, economic stabilization, and trade.

Grade Level: 12 (Required)

1540H GOVERNMENT HONORS

This one semester course examines the operations of the various branches and levels of American Government from local to federal. It also provides knowledge of the various types of government found in the world. The course will examine the democratic principles that make up the foundation of the United States Government. Ideology of political influence and its effect on the economy in the United States will also be a large part of this course.

Grade Level: 12

1514H ECONOMICS HONORS

Economics examines the allocation of resources and their uses for satisfying human needs and wants. The course analyzes the 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 study of scarcity and economic reasoning, supply and demand, market structures, the role of government, national economic performance, the roles of financial institutions, economic stabilization, and trade.

Grade Level: 12

1516 ETHNIC STUDIES

This is a one-semester course. 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. • Recommended Grade Level: none • Recommended Prerequisites: none • Credits: 1 semester course, 1 credit • Counts as an Elective for all diplomas

1518 INDIANA STUDIES

This is a one-semester course. Indiana Studies is an integrated course that compares and contrasts state and national developments in the areas of politics, economics, history, and culture. The course uses Indiana history as a basis for understanding current policies, practices, and state legislative procedures. It also includes the study of state and national constitutions from a historical perspective and as a current foundation of government. Examination of individual leaders and their roles in a democratic society will be included and student will examine the participation of citizens in the political process. Selections from Indiana arts and literature may also be analyzed for insights into historical events and cultural expressions. • Recommended Grade Level: none • Recommended Prerequisites: none • Credits: 1 semester course, 1 credit • Counts as an Elective for all diplomas

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.

• Only open to Juniors and Seniors, only available to 44 total students in 2 class periods

1532 PSYCHOLOGY

Psychology is the scientific study of mental processes and behavior. The course is divided into eight content areas. History & 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 looks at all the changes throughout one's life: physical, cognitive, as well as emotional, social and moral development. Cognition focuses on learning, memory, information processing, and language development. Personality and Assessment looks at the approaches used to explain one's personality and the assessment tools used. 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.

Grade Level: 10 (with 3.5 minimum GPA), 11, 12

Theatre

42421/42422 THEATRE ARTS and ADVANCED THEATRE ARTS

Each is a one semester class. Read and analyze plays, create scripts and theatre pieces, conceive scenic designs, and develop acting skills. These activities incorporate elements of theatre history, culture, analysis, response, creative process, and integrated studies. Additionally, students explore career opportunities in the theatre, attend and critique theatrical productions, and recognize the responsibilities and the importance of individual theatre patrons in their community.

Grade Level: 9-12*

42443/42444 TECHNICAL THEATRE and ADV TECHNICAL THEATRE

Each is a one semester class. Actively engage in the process of designing, building, managing, and implementing the technical aspects of a production – including set construction, lighting and sound. These activities should incorporate elements of theatre history, culture, analysis, response, creative process, and integrated studies. Additionally, students explore career opportunities in the theatre, attend and critique theatrical productions, and recognize the responsibilities and the importance of individual theatre patrons in their community.

Grade Level: 9-12*

The progression of taking Theatre classes are as follows: 1-Theatre Arts, 2- Advanced Theatre Arts, 3-Tech Theatre, 4-Advanced Tech Theatre. All four levels are offered each semester.

World Languages

** Three years of World Language (Spanish only language offered at PCHS) is required for Academic Honors Diploma. Also, at least two years recommended for state college acceptance.

2120 SPANISH I

A one-year introductory course in Spanish which stresses the development of proficiencies in reading, writing, listening and speaking, introduces basic grammar and vocabulary, and seeks to develop in the student an appreciation for the culture and history of Spanish-speaking countries.

Recommendations: Grade of "C" or above in English; Grade of "B" or above in English for incoming freshmen.

Grade Level: 9-12

2122 SPANISH II

A one-year course that builds on the basic skills developed in Spanish I, further developing the student's proficiency in areas such as grammar, vocabulary, oral/written communication and knowledge about the Spanish-speaking world.

Grade Level: 10-12 Prerequisite - Grade of "C" or above in Spanish I and teacher permission.

2124 SPANISH 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.

- Recommended Grade Level: 11-12
- Prerequisite: Grade of “C” or above in Spanish II and teacher permission

2132 AP SPANISH AND LANGUAGE CULTURE

AP Spanish Language and Culture is a course established and copyrighted by the College Board and follows the College Board course guidelines for AP Spanish Language and Culture.

The course prepares students to be successful on the AP Spanish Language and Culture exam. The course is not intended to be used as a dual credit course. The AP Spanish Language and Culture course emphasizes communication (understanding and being understood by others) by applying interpersonal, interpretive, and presentational skills in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness. The AP Spanish Language and Culture course strives not to overemphasize grammatical accuracy at the expense of communication. To best facilitate the study of language and culture, the course is taught almost exclusively in Spanish. The AP Spanish Language and Culture course engages students in an exploration of culture in both contemporary and historical contexts. The course develops students’ awareness and appreciation of cultural products (e.g., tools, books, music, laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions).

Students will take the AP test in May for potential college credit.

- ☐ Recommended Grade Level: 11, 12
- ☐ Recommended Prerequisites: Spanish I, II and III
- ☐ Credits: 2 semester course, 1 credit per semester
- ☐ Counts as a Directed Elective or Elective for all diplomas
- ☐ Fulfills a World Language requirement for the Core 40 with Academic Honors Diploma

2080 LATIN I

Latin I, a course based on Indiana’s Academic Standards for World Languages, introduces students to effective strategies for beginning Latin language learning, and to various aspects of classical Roman culture. This course 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. Though interpersonal communication is not an explicit emphasis of this course, opportunities may be provided for students 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. Additionally, students will examine the practices, products and perspectives of classical Roman culture; recognize basic routine practices of the target culture; and recognize and use situation-appropriate non-verbal communication. This course further emphasizes 306 Indiana Department of Education High School Course Titles and Descriptions making connections across content areas and the application of understanding Latin language and culture outside of the classroom.

- Recommended Grade Level: 9, 10, 11, 12
- Recommended Prerequisites: none
- Credits: 2 semester course, 1 credit per semester
- Counts as a Directed Elective or Elective for all diplomas
- Fulfills a World Language requirement for the Core 40 with Academic Honors Diploma